

**2016**  
**2017**

COMPLETE  
PRODUCT  
CATALOG

WHAT'S INSIDE  
**MATTERS**



PACKARDONLINE.COM

# THE DIFFERENCE MATTERS

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Since our days in Lima, Ohio selling motors and motor parts only, some things haven't changed. We still know all our customers by name, and we still answer our own phones.

Yet, we've come a long way in over 5 decades in business. We have cultivated relationships with world class manufacturers and developed our own private label brands to offer one of the most diversified and complete lines of aftermarket OEM replacement motors, parts and components in the industry.

But, what really sets Packard apart in today's HVACR market are our valuable support services.



## TRAINING & EDUCATION

In person, complete critical components training, video tutorials, tips & monthly training articles



## TECHNICAL SUPPORT

Pre-sale cross referencing services & complete post-sale product support from our in-house team of experts



## BUSINESS DEVELOPMENT

Counter sales training, product line development & marketing support



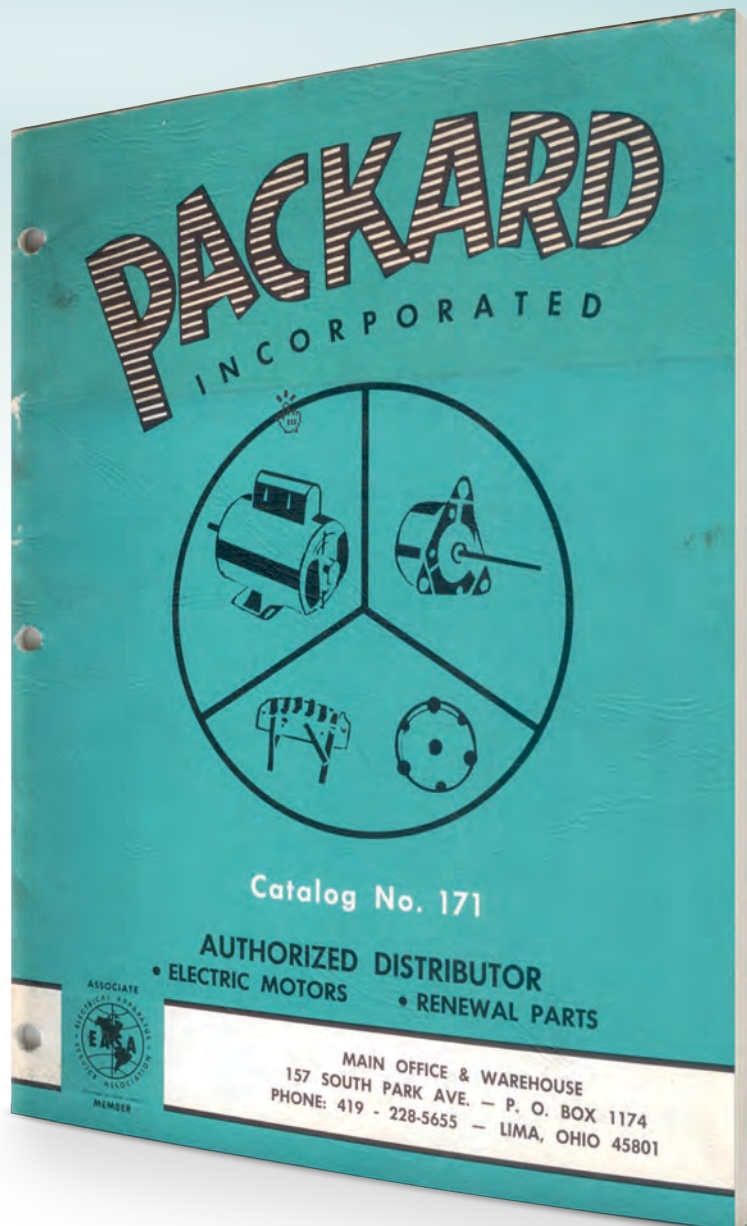
## CUSTOMER SERVICE

Account dedicated inside sales and service representatives, & expanded hours for west coast customers



## ENHANCED DISTRIBUTION

A distribution network that covers both Coasts & the Midwest, offering same day shipping & convenient contractor pickup areas







## A Note from Susan Kirkland, President

With the release of our 2016-17 catalog, we enthusiastically look forward to the road ahead. However, it's also a good time to reflect back on where we have been.

As a company, Packard has gone through many changes over the years. Our mission to grow and evolve with the industry, offer more HVACR solutions and service more customers is constantly present; however we have realized, that who we have become as a company is primarily due to the value that we are able to provide from within - and we believe that **What's Inside Matters**.

Because we feel this message fits so well with who we are, we have decided to focus on it throughout this catalog. We will also be weaving it into many of the corporate communications and brand messages that you will see throughout the year.

With over 10,000 SKUs, the aftermarket parts and components that Packard offers do Matter. They matter to our customers. They matter to your technicians, and ultimately they matter to the homeowners and business owners who need their equipment repaired.

Yet, providing quality parts to go inside your technicians' equipment repairs is merely part of our story.

**People Matter:** As you can see from our cover, Packard is not a faceless company. Quite the contrary, our people define who we are. Our sales managers, customer service representatives, technical support team and product training experts are dedicated to serving, supporting and educating YOU with every order.

**Choices Matter:** We know you have choices when it comes to suppliers. We also know that you don't have to settle for high costs or limited replacement options. Our OEM direct replacement parts are safe, reliable and cost-effective. Whether you order one part or bundle your purchases for maximum savings, with Packard you have a choice and we treat each order as a relationship.

**Service Matters:** Service is at the heart of what we do and we take it seriously. Our staff is focused solely on what is essential to you and your technicians. You can be assured that at Packard your phone call will always be answered by a real person and that our customer service team will spend the time to ask you the right questions and get you the answers you need quickly.

**Fulfillment Matters:** We understand the clock is running on a repair. This is why we have continued to respond to the needs of our customers and have Distribution Centers in the Southeast as well as in the Midwest. We also offer specialized compressor shipping from the West Coast. Not only do our two Distribution Centers provide the convenience of getting stock orders or large orders quickly - some as soon as next day - but they also offer convenient customer pick-up areas.

We invite you to see more of what's inside.

Susan Kirkland  
President

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# CHOICES MATTER

YOU HAVE MANY DECISIONS TO MAKE TO RUN YOUR BUSINESS.  
WE MAKE FINDING YOUR REPLACEMENT MOTORS AN EASY ONE.



Our Packard branded OEM replacement motors cover an almost limitless range of applications. From heavy duty T-frame motors, to the smaller C-frames, we have a selection that can meet your customers' repair requirements big or small.

Plus, our brand means a better value, helping you meet your budget and enhance profitability.

CHOOSE VALUE. CHOOSE PACKARD.

# MOTORS | C-Frame Motors

## Applications

Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

## Features

- Shaded pole
- Sleeve bearings
- Stud mounting
- Rotation is determined by viewing the shaft end
- Direct Replacements for Delfield, Bohn, Gemline and Nutone



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65100	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Gemline EM550 Nutone C65878 Robertshaw VFM100	105, 485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65100M	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Nutone C65878 Motor Only	464, 485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
82423K	1/2	120	2650	0.60	1	CW	7/32 x 1 1/2	60	Nutone 89423-000	106, 485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65249	1/2	120	3000	0.45	1	CW	1/8 x 2 1/2	60	Gemline EM241 Gemline EM242 Gemline EM244 Gemline EM245 Gemline EM247 Gemline EM248 Gemline EM249	



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65106	5/8	115	3000	0.70	1	CCW	7/32 x 2 3/8	60	Gemline EM555 Nutone C68627	485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65112	5/8	120	3000	0.76	1	CCW	7/32 x 1 3/4	60	Broan-Nutone 99080245 Broan-Nutone 97012041	104, 105, 485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65514	5/8	120	3000	0.44	1	CW	3/16 x 3/4	60	Delfield 1175-10-4439	

Note: 5" fan blade included



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65691	5/8	120	3000	0.64	1	CW	0.181 x 1 5/16	60	BOHN 5007S Bohn 5018S Bohn 5036F Gemline EM691 UPPCO 85	354 472 474
65692	5/8	240	3000	0.32	1	CW	0.181 x 1 5/16	60	BOHN 5007T Bohn 5018T Bohn 5036G Gemline EM692 UPPCO 86	354 472 474



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Packard</b>										
65709	5/8	120	3000	0.80	1	CCW	7/32 x 2 1/4	60	Nutone C53709	108, 485

### Notes:







104. Same as 65100 except mounting screws are on the shaft end  
 105. Includes A65100FB impeller  
 106. Assembled with bracket as illustrated

108. Has a one shot overload  
 354. Impedence protected  
 464. Same as 65100 except motor only

472. Includes stand offs for other Bohn applications  
 474. Used in Bohn commercial evaporators  
 485. Includes two prong plug






# C-Frame Motors | MOTORS

	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>		
	<b>Packard</b>											
	67154	3/4	120	3000	0.55	1	CCW	1/4 x 5/8	60	Russell Coil 102249-005		
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65894K	3/4	120	3000	0.90	1	CCW	7/32 x 2 3/8	60	Nutone 82229 Nutone K5894	106, 555	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65104	3/4	120	3000	0.74	1	CCW	7/32 x 1 3/4	60	Gemline EM553 Nutone C66582	107	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65105	7/8	120	3000	0.88	2	CCW	7/32 x 1 7/16	60	Gemline EM554 Nutone C27987	110	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65101	7/8	120	3000	0.86	2	CW	7/32 x 1 5/16	60	Gemline EM551 Nutone C52367 Robertshaw VFM101	110	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65103	7/8	120	3000	0.71	1	CCW	7/32 x 1 3/16	60	Gemline EM552 Nutone C63675	485	
	65272	1	120	3000	1.00	1	CCW	7/32 x 1 1/2	60	Nutone C23272	485	
	<b>Notes:</b>											
	106. Assembled with bracket as illustrated					110. Includes Two Speed Plug			555. Includes two prong plug and blower wheel			
	107. Has eyelet terminals on leads					485. Includes two prong plug						

## Direct Replacements For Broan

### Features

- Shaded Pole
- Sleeve Bearing
- Automatic Overload
- Rotation is determined by viewing the shaft end

	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65216	5/8	120	3000	0.51	1	CCW	0.181 x 1 1/2	60	Broan 99080090 Broan 99080216	485, 491	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65366	5/8	120	3000	0.50	2	CCW	0.185 splined x 1 1/4	60	Broan 99080365	110, 491	
	<b>Item ID</b>	<b>Stack Size (In.)</b>	<b>Volts</b>	<b>RPM</b>	<b>Amps</b>	<b>Speeds</b>	<b>Rotation</b>	<b>Shaft Dimension (In.)</b>	<b>Hertz</b>	<b>Replaces</b>	<b>Notes</b>	
	<b>Packard</b>											
	65094	7/8	120	3000	0.75	1	CCW	7/32 x 1 1/4	60	Broan 99080094 Broan 99080099 Broan 99080166	485, 491	
	65159	7/8	120	3000	0.71	1	CCW	1/4 x 2 3/4	60	Broan 99080159	485, 491	
	65176	1 1/8	120	3000	1.00	1	CW	7/32 x 1 1/2	60	Broan 99080176	485, 491	
	<b>Notes:</b>											
	110. Includes Two Speed Plug					485. Includes two prong plug			491. Has a flattened shaft			

# MOTORS | C-Frame Motors

## Utility Fan Motors And Kits

### Applications

Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

### Features

- Shaded pole
- 60 Hertz
- Mechanically reversible
- Rotation is determined by viewing the shaft end



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Sleeve Bearings</b>										
65670	5/8	115	3000	0.50	1	CW	3/16 x 1 5/16	SP	Sleeve	Acme 600 Acme 700 Acme 710 Gemline EM670 Robertshaw 14001



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Sleeve Bearings</b>										
65690	5/8	120	3000	0.50	1	CW	3/16 x 1 3/8	SP	Sleeve	Gemline EM690

Same as 65670 except studs exit on the shaft end.



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Sleeve Bearings</b>										
65672	5/8	240	3000	0.18	1	CCW	3/16 x 1 5/16	SP	Sleeve	Acme 602 Acme 702 Gemline EM672 Robertshaw 14005
65673	5/8	115	3000/1550	0.60/0.40	2	CW	3/16 x 1 3/8	SP	Sleeve	Gemline EM673 Robertshaw 14007



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Sleeve Bearings</b>										
65675	1	120/240	3000	0.80/0.40	1	CW	3/16 x 2 3/16	SP	Sleeve	Acme 7502 Gemline EM675



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Ball Bearings</b>										
65686	5/8	120	3000	0.41	1	CW	3/16 x 1 1/4	SP	Ball	Acme BB700 Gemline EM686



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Ball Bearings</b>										
65687	1 1/8	120/240	3000	0.66/0.32	1	CW	3/16 x 2 3/8	SP	Ball	Acme BB7502 Gemline EM687
65688	1 1/8	120	3000	0.43	1	CW	3/16 x 1 5/8	SP	Ball	Acme BB750 Gemline EM688



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Replaces
<b>Packard - Ball Bearings</b>										
65345	1 3/8	120	3000	1.30	1	CCW	5/16 x 2 3/8	SP	Ball	Nutone 62345

## Utility Fan Motors

### Applications

Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

### Features

- Shaded Pole, 60 Hertz
- Mechanically reversible
- Rotation is determined by viewing the shaft end



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Replaces	Notes
<b>Packard</b>											
65210	3/8	120	3000	0.31	1	CW	0.181 x 1	SP	Sleeve		
65426	3/8	240	3000	0.17	1	CW	0.181 x 1	SP	Sleeve		
65455	1/2	120	3000	0.35	1	CW	7/32 x 1	SP	Sleeve	Kitchen Aid 240332-1 Kitchen Aid 4162472	
65533	1/2	120	3000	0.22	1	CW	Splined (3/16 Diameter)	SP	Sleeve	Choice Vending 863243	
65693	1/2	120	3000	0.32	1	CW	0.181 x 1	SP	Sleeve		
65280	1/2	240	3000	0.32	1	CW	3/16 x 1	SP	Sleeve		
65671	5/8	115	3000	0.50	1	CW	3/16 x 1 5/16	SP	Sleeve	Gemline EM671 Robertshaw 14003	
65681	5/8	120	3000/1550	0.55/0.34	2	CW	3/16 x 1 3/8	SP	Sleeve	Gemline EM681 Robertshaw 14021	
65102	5/8	120	3000	0.40	1	CW	7/32 x 2 1/4	SP	Sleeve		
65694	5/8	120	3000	0.45	1	CW	0.181 x 1 1/8	SP	Sleeve		
65467	7/8	120	3000/1550	1.00/0.60	2	CW	7/32 x 2 3/8	SP	Sleeve		103
65427	7/8	220-240	3000	0.28	1	CW	3/16 x 1	SP	Sleeve		
65283	7/8	120	3000/1550	0.76	2	CW	3/16 x 1	SP	Sleeve		
65685	1	120	3000/1550	0.90	2	CW	3/16 x 1 5/8	SP	Sleeve	GE WB26X45 Gemline EM685	
65683	1	240	3000	0.25	1	CW	3/16 x 1 1/4	SP	Sleeve	Gemline EM683	
65680	1 1/8	120	3000	0.90	1	CW	3/16 x 1 1/2	SP	Sleeve	Acme 750 Gemline EM680 Robertshaw 14019	
65468	1 3/8	120	3000/1550	1.25	2	CW	7/32 x 2 3/8	SP	Sleeve		
65428	1 1/2	220-240	3000	0.55	1	CW	1/4 x 1	SP	Sleeve		

### Notes:

103. 2 speed plug for Nutone applications

## C-Frame Utility Ventilator Fan Motor

### Features

- 60 Hertz
- Rotation is determined by viewing the shaft end
- Has extended studs at 1 7/8" center, two 5/32" mounting holes on each side of stack on 1 7/8" center and includes two prong plug
- Mechanically reversible



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure
<b>Packard</b>										
60100	5/8	115	2750	0.71	1	CW	3/16 x 1 1/8	SP	Sleeve	Open

# MOTORS | Fan Blades & Blower Wheels

## Plastic Fan Blades

### Applications

For use with unit bearing and C-Frame Motors



Item ID	Diameter (In.)	Number of Blades	Rotation	Bore (In.)
<b>Packard</b>				
A61299	2 1/2	4	CW	3/16
A61300	3	4	CW	1/8
A61301	3	4	CW	3/16
A61302	3 1/2	4	CCW	3/16
A61353	4	4	CCW	Hub
A61406	4	4	CW	1/8
A61408	4	4	CW	3/16
A61550	5 1/2	4	CCW	3/16
A61551	5 1/2	4	CW	3/16
A61602	6	4	CW	1/4
A61603	6	4	CW	5/16
A61604	6	4	CCW	3/16
A61605	6	4	CCW	1/4
A61606	6	4	CCW	5/16

Item ID	Diameter (In.)	Number of Blades	Rotation	Bore (In.)	Replaces/ Notes
<b>Packard</b>					
A61401	4	5	CW	1/8	
A61402	4	5	CW	3/16	
A61403	4	5	CCW	1/8	
A61404	4	5	CCW	3/16	
A61501	5	5	CW	3/16	
A61502	5	5	CW	1/4	
A61503	5	5	CW	5/16	
A61504	5	5	CCW	3/16	
A61505	5	5	CCW	1/4	
A61506	5	5	CCW	5/16	
A61455	5 9/16	5	CCW	3/16	
A61650	6 1/2	5	CW	3/16	
A61651	6 1/2	5	CW	1/4	
A61652	6 1/2	5	CW	5/16	
A61660	6 5/8	5	CW	7/32	D-STYLE BORE
A61665	6 5/8	5	CW	7/32	D-STYLE BORE
A61701	7	5	CW	1/4	
A61703	7	5	CCW	1/4	
A61718	7	5	CW	Hub	Gemline FB718
A61801	8	5	CW	1/4	
A61802	8	5	CW	5/16	
A61601	6	6	CW	3/16	

## Plastic Blower Wheels And Impellers



Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
<b>Packard</b>					
A65900	1/4	5 3/4	2	D Shape	Nutone 59000A000

Item ID	Bore (In.)	Diameter (In.)	Bore	Replaces
<b>Packard</b>				
A65100FB	7/32	4 9/16	D Shape	Nutone 68920
A65216FB	3/16	4 1/2	D Shape	
A64031FB	0.181	4 1/2	Round	

### Packard Cast Iron 2-16 Watts - Single Foot and No Pad

Rotation is determined by viewing the lead (opposite shaft) end



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Replaces
<b>Packard</b>											
61021	2	115	1550	0.22	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	No Foot Pad	GE 5109
65111	2.5	115	1000	0.26	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5111
65211	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5211
65212	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5212
65311	6	115	1550	0.40	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5311
65312	6	115	1550	0.40	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5312
65411	9	115	1550	0.55	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5411
65412	9	115	1550	0.55	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5412
65421	9	230	1550	0.27	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5421
65422	9	230	1550	0.27	CCW	1/4 x 1/2	2 3/4	Totally Enclosed	50/60	Single Foot Pad	GE 5422
65811	16	115	1550	1.00	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5811
65812	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5812
65821	16	230	1550	0.50	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5821
65822	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5822

### Packard Cast Iron 2-16 Watts - Double Foot Pads

Rotation is determined by viewing the lead (opposite shaft) end



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Notes
<b>Packard</b>											
61002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	
61004	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	87, 551
61006	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	
61029	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	
61009	9	115	1550	0.55	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	
61099	9	115	1550	0.55	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	
61059	9	230	1550	0.29	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	
61015	16	115	1550	1.00	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads	
61016	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads	
61017	16	230	1550	0.50	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads	
61018	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads	

### Packard Aluminum 2-16 Watts - Single and No Foot Pad

Features

- Rotation is determined by viewing the lead (opposite shaft) end
- Totally enclosed



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Hertz	Mounting	Replaces	Notes
<b>Packard</b>											
65109	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	50/60	No Foot Pad	GE 5109	530
65213	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	50/60	Single Foot Pad	GE 5213	
65214	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	50/60	Single Foot Pad	GE 5214	
64022	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	50/60	No Foot Pad	Emerson 119	87
65313	6	115	1550	0.40	CW	1/4 x 1/2	2 7/8	50/60	Single Foot Pad	GE 5313	
65413	9	115	1550	0.50	CW	1/4 x 1/2	2 7/8	50/60	Single Foot Pad	GE 5413	
65813	16	115	1550	1.0	CW	1/4 x 1/2	3 3/16	50/60	Single Foot Pad		

Notes:

87. Includes straight Lyall plug

530. No foot pad

551. Low temp. oil





# MOTORS | Unit Bearing Motors

## Packard Aluminum 2-9 Watts - Double Foot Pads

### Features

- Rotation is determined by viewing the lead (opposite shaft) end



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
64102	2	115	1550	0.25	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 102	
64115	4	115	1450	0.29	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		
64117	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 117	
64277	6	277	1550	0.17	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		557
64108	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	Emerson 108	

Notes:  
557. 5 mounting holes opposite the shaft end

## Direct Replacement Unit Bearing Motors

### Features

- Rotation is determined by viewing the lead (opposite shaft) end
- Totally enclosed



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
65740	2.3	115	1300	0.15	CW	1/4 x 1/2	2.48	Aluminum	60/50	Double Foot Pads	Sub Zero 4200740	Pin Term.



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Cast Iron	50/60	Double Foot Pads	Hill PP7577M	87, 551



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
65018	5	115	1550	0.34	CW	1/4 x 1/2	2 1/2	Cast Iron	50/60	Single Foot Pad	GE 5KSM81FFL18	550, 551



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
65017	9	115	1550	0.55	CW	1/4 x 1/2	2 3/4	Cast Iron	50/60	Single Foot Pad	GE 5KSM81FFL17	550, 551



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Packard</b>												
65133	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Cast Iron	50/60	Single Foot Pad	GE 5KSM51ECG5133 Hussmann 58698	87 551



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
<b>Morrill Motors</b>												
10101	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	Aluminum	60	No Foot Pad	Kyser Warren 5991	530
10019	9	115	1550	0.53	CW	1/4 x 1/2	2 3/8	Aluminum	60	Double Foot Pads	Morrill SPB9HUEM1	

Notes:  
87. Includes straight Lyall plug  
530. No foot pad  
550. Includes 90 degree Lyall plug  
551. Low temp. oil

## Unit Bearing Motor Mounting Brackets



Item ID	Brand
A68004	Packard



Item ID	Shaft Height (In.)
<b>Packard</b>	
A11601	4 1/8
A11602	4 9/16
A11603	5 3/8
A11605	6 1/4



## Morrill Motors - Cast Iron 2-16 Watts - Double Foot Pads

**Features**

- Rotation is determined by viewing the lead (opposite shaft) end
- Totally enclosed
- 60 Hertz



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
<b>Morrill Motors</b>											
10002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB2EM1	
10004	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB4EM1 GE 5211	
10044	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB4EMR1	
10024	4	230	1550	0.14	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB4EM2 GE 5221	
10054	4	230	1550	0.14	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB4EMR2 GE 5222	
10005	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB5EM1	
10287	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill PB5SEV11 Hill PP7577M	551
10006	6	115	1550	0.36	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB6EM1 GE 5311	
10066	6	115	1550	0.36	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB6EMR1	
10009	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9EM1 GE 5411	
10099	9	115	1550	0.53	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9EMR1	
10029	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9EM2 GE 5421	
10059	9	230	1550	0.27	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9EMR2 GE 5422	
10015	16	115	1550	0.80	CW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill SPBEP16EM1 GE 5811	
10017	16	115	1550	0.80	CCW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill SPBEP16EMR1 GE 5812	
10016	16	230	1550	0.40	CW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill SPBEP16EM2 GE 5821	
10018	16	230	1550	0.40	CCW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill SPBEP16EMR2 GE 5822	

## Morrill Motors - Aluminum 2-14 Watts

**Features**

- Rotation is determined by viewing the lead (opposite shaft) end
- Totally enclosed
- 60 Hertz



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
<b>Morrill Motors</b>											
13002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB2HUEM1	
13005	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB5HUEM1	
13055	5	115	1550	0.34	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB5HUEMR2	
13006	6	115	1550	0.50	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB6HUEM1	



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
<b>Morrill Motors</b>											
10101	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	No Foot Pad	Hussmann SPB9HUBGV101	87, 530, 531



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
<b>Morrill Motors</b>											
10019	9	115	1550	0.53	CW	1/4 x 1/2	2 3/8	SP	No Foot Pad	Kyser Warren 5991	530, 531
13009	9	115	1550	0.58	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9HUEM1	
13029	9	230	1550	0.29	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill SPB9HUEM2	
13014	14	115	1550	0.66	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB14HUEM1	
13124	14	230	1550	0.33	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill SPB14HUEM2	

**Notes:**  
87. Includes LYALL Plug  
530. No Foot Pad

531. Rear hole mounting only  
551. Low temp. oil

# MOTORS | Unit Bearing Motors

## Direct Replacements For Oasis and Hussman

### Features

- Totally enclosed
- Rotation is determined by viewing the lead (opposite shaft) end



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Hertz	Mounting	Replaces
<b>Packard</b>											
10037	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	60	Double Foot Pads	Oasis 027354-026 Oasis 027354-037
10038	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	60	Double Foot Pads	Oasis 027354-038



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Hertz	Mounting	Replaces
<b>Packard</b>											
61103	12	115	1550	0.62	CW	1/4 x 1/2	2 11/16	SP	50/60	No Foot Pad	Hussmann 0047000 Hussmann 441-103 Hussmann 0440421 Hussmann 125-01-0615A LRC Coil 1602



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Hertz	Mounting	Replaces
<b>Packard</b>											
61104	12	115	1550	0.62	CW	1/4 x 1/2	2 11/16	SP	50/60	Double Foot Pads	Hussmann 4410311

## Packard Unit Bearing Motors - Cast Iron 25-50 Watts

### Features

- Double foot pad
- 50/60 Hertz
- Rotation is determined by viewing the lead (opposite shaft) end
- Horizontal or shaft up mounting



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Replaces
<b>Packard</b>									
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	Totally Enclosed	Manitowac 002412283
65003	25	115	1500	1.10	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3252
65002	25	230	1500	0.55	CW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3253
65004	25	230	1500	0.55	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3254
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Totally Enclosed	Tecumseh 810M035A29
65022	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3352
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Totally Enclosed	Tecumseh 810M035A21
65023	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3354



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Replaces
<b>Packard</b>									
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	Copeland 050-0244-00
65042	50	115	1500	1.70	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3502
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	Copeland 050-0244-00
65043	50	230	1500	0.85	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3504



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Replaces
<b>Packard</b>									
65045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	Open	Tecumseh 810M050A62

## Packard Unit Bearing Motor Plugs



### 90 Degree Plug And Cord

Item ID	Length (In.)
<b>PLUG018</b>	25

UL Recognized



### Straight Plug And Cord

Item ID	Length (In.)
<b>PLUG119</b>	25

UL Recognized

## Electric Motors And Specialties Unit Bearing Motors - 15-75 Watts

### Features

- Double foot pad mounting
- Mounting hardware included
- UL recognized
- Rotation is determined by viewing the lead (opposite shaft) end
- Cast iron
- Shaded pole
- Made in USA



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces
<b>Electric Motor and Specialties</b>										
<b>15009</b>	15	115	1500	0.6	CCW	5/16 x 7 1/2	3 1/8	Totally Enclosed	60	ESPL15EMJR11

Lead end and shaft end are the same.



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces
<b>Electric Motor and Specialties</b>										
<b>15005</b>	16	115	1500	1.1	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	ESPL16EM1
<b>15006</b>	16	230	1500	0.6	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	ESPL16EM2
<b>15007</b>	16	115	1500	1.1	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	ESPL16EMR1
<b>15008</b>	16	230	1500	0.6	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	ESPL16EMR2
<b>15001</b>	25	115	1500	1.1	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Manitowoc 002412283
<b>15002</b>	25	230	1500	0.6	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	GE 3253 ESPL25EM2
<b>15003</b>	25	115	1500	1.1	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	GE 3352 ESPL25EMR1
<b>15004</b>	25	230	1500	0.6	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	ESPL25EMR2



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces
<b>Electric Motor and Specialties</b>										
<b>15010</b>	25	115	1500	1.1	CCW	5/16 x 3 1/2	3 1/16	Totally Enclosed	60	ESPL25ERD1

Lead end and shaft end are the same.



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
<b>15020</b>	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Tecumseh 810M035A29 EMS ESPL35EM1	479
<b>15022</b>	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	EMS ESPL35EMR1	
<b>15021</b>	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Tecumseh 810M035A21	479
<b>15023</b>	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Tecumseh 810M035A28 EMS ESPL35EM2	
										EMS ESPL35EMR2	



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
<b>15040</b>	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Open	60	Copeland 050-0244-01 EMS ESPL50EM1	96
<b>15041</b>	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Open	60	Copeland 050-0244-00 EMS ESPL50EM2	96

Notes:  
96. Copeland replacement

479. Tecumseh replacement



# MOTORS | Unit Bearing Motors

## Electric Motors And Specialties Unit Bearing Motors - 15-75 Watts

### Features

- Double foot pad mounting
- Mounting hardware included
- UL recognized
- Rotation is determined by viewing the lead (opposite shaft) end
- Cast iron
- Shaded pole
- Made in USA 



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 5/8	Open	60	Tecumseh 810M050A62 EMS ESPOL50EMJR21	479
Lead end and shaft end are the same.											



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15049	50	208-230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Open	50/60	Copeland 050-0241-01 EMS ESPOL50EM13	96, 97
15460	50	460	1500	0.44	CW	3/8 x 1 1/2	3 5/8	Open	60	Copeland 050-0244-02 EMS ESPOL50EM461	96



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15461	50	460	1500	0.44	CCW	5/16 x 2	3 5/8	Open	60	Copeland 050-0264-03 ESPOL50EMJR41	
Lead end and shaft end are the same.											



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15042	50	115	1500	1.7	CCW	3/8 x 1 1/2	3 5/8	Open	60	ESPOL50EMR1	
15043	50	230	1500	0.85	CCW	3/8 x 1 1/2	3 5/8	Open	60	ESPOL50EMR2	
15044	50	230	1500	0.85	CW	5/16 x 1 1/2	3 5/8	Open	60	ESPOL50EM2B	
15046	50	208-230	1500	1.20	CW	3/8 x 1 1/2	3 5/8	Open	60	ESPOL60EM2	97



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15050	50	115	1500	1.70	CW	5/16 x 3	3 7/8	Open	60	ESPOL50EM1B1 IMI Cornelius 134350000	



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15051	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Open	60	Copeland 998-1008-00	



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15116	50	115	1500	1.7	CW	1/4 - 20 Thread	4.18	Open	60	Copeland 050-0344-01	
15126	50	208-230	1500	0.85	CW	1/4 - 20 Thread	4.18	Open	60	Copeland 050-0344-00	
15146	50	460	1500	0.44	CW	1/4 - 20 Thread	4.18	Open	60	Copeland 050-0344-03	



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
<b>Electric Motor and Specialties</b>											
15075	75	208-230	1500	1.50	CW	3/8 x 1 1/2	3 5/8	Open	60	EMS ESPOL75EM2	97

Notes:  
96. Copeland replacement

97. May be used on 208 Volt applications

479. Tecumseh replacement

## Direct Replacements For General Electric 11 Frame



### Features

- All angle unit bearings
- 60 Hertz
- Automatic overload
- 1.83 inch resilient rings
- Single speed / single phase
- Stud and resilient mounting
- 4 Holes #8-32 UNF-2B on 2.84" bolt circle



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces
<b>Packard</b>											
41336	1/20	230	1550	1.10	CCWLE	5/16 x 1 5/8	4.25	Shaded Pole	Sleeve	Totally Enclosed	GE 1336



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces
<b>Packard</b>											
61232	1/15	208-230	1550	0.93	CWOLE	5/16 x 2	4.90	Shaded Pole	Sleeve	Open	GE 1232
61331	1/20	115	1550	2.20	CWLE	5/16 x 2	4.82	Shaded Pole	Sleeve	Open	GE 1331
61332	1/20	208-230	1550	1.10	CWLE	5/16 x 2	4.82	Shaded Pole	Sleeve	Open	GE 1332
61432	1/30	208-230	1550	0.87	CWLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	GE1432
61431	35 MHP	115	1550	1.70	CWOLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	GE1431
61441	35 MHP	115	1550	1.70	CCWOLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	GE1441
61442	35 MHP	208-230	1550	0.87	CCWOLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	GE1442



### Features

- Shaded pole
- Sleeve and ball bearing
- Open enclosure
- 60 Hertz
- Automatic overload
- Bolt circle 2.84"



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Fasco</b>											
D477	1/35	208-230	1550	0.75	CCW	5/16 x 1 5/8	4 1/4	Sleeve	Open	GE 1432	40, 43, 44, 46
D471	1/20	208-230	1550	1.10	CCW	5/16 x 2 1/2	4 1/4	Sleeve	Open	GE 1332	47
D417	1/20	208-230	1550	1.10	CCW	5/16 x 2 1/2	4 1/4	Ball	Open	GE 1332	47
D473	1/20	115	1550	2.00	CCW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1331	47
D472	1/20	115	1550	1.90	CW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1341	47
D470	1/20	208-230	1550	0.94	CW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1342	47

#### Notes:

40. Mounting bracket designed to match the original motor (four 8-36 drilled and tapped holes)  
 43. Mounting hardware included

44. Has 22" leads with 1/16" thick insulation  
 46. Three studs opposite shaft end are 8-32 on a standard 2.84" bolt circle, 120° apart

47. Includes 1/2" studs for mounting



### Features

- Shaded pole
- Stud mounting
- 60 Hertz
- Automatic overload
- Single phase
- Rotation is determined by viewing the shaft end; leads are on shaft end
- Bolt circle 2.84"



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
81671	1/15	115/230	1550	2.10-1.10	CCW	5/16 x 1 5/8	4 1/4	Ball	Totally Enclosed	GE 1331 GE 1332	486, 487 488, 489
81672	1/15	115/230	1550	2.10-1.10	CW	5/16 x 1 5/8	4 1/4	Ball	Totally Enclosed	GE 1341 GE 1342	486, 487 488, 489

#### Notes:

486. Drilled and tapped holes for mounting  
 487. Includes 1 7/8" diameter mounting rings

488. 8/32 mounting studs included  
 489. Rotation is determined by viewing the lead end





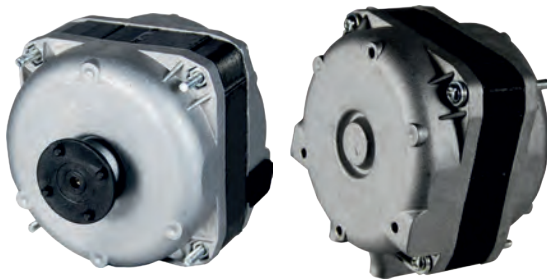
## Square Frame Condenser Fan Motors

### Applications

- Industrial and commercial refrigeration fans for condensing, ventilating and evaporator units, walk-in and reach-in coolers, freezers, food and beverage chillers.

### Features

- All angle self-aligning sleeve bearings
- Totally Enclosed
- Continuous air over
- Class B insulation
- Standard operating temperatures: -40° F to + 104° F (-40° C to +40° C)
- UL listed
- Rear mount: 6 tapped holes #8-36 thread
- Foot mount: 4 holes, #8-36 thread



Item ID	Watts	Volts	RPM	Amps	Rotation	Protection
<b>Packard</b>						
PSQ4CW115	4	115	1550	0.36	CW Lead End	Impedance
PSQ5CW115	5	115	1550	0.40	CW Lead End	Thermal
PSQ6CW115	6	115	1550	0.41	CW Lead End	Impedance
PSQ9CW115	9	115	1550	0.58	CW Lead End	Thermal
PSQ9CW230	9	230	1550	0.35	CW Lead End	Thermal
PSQ18CW115	18	115	1550	1.00	CW Lead End	Thermal
PSQ18CW230	18	230	1550	0.50	CW Lead End	Thermal

## Bracket Adapter Kit



### Features

- This kit allows mounting "American style" ELCO motors (NU Series) on "European style" U-type or V-type brackets.
- See page 20 for bracket offering

Item ID	Contains
ELCO	Plastic Bracket
EUBKT01	M4x16 Screw (4 pcs.) Serrated M4 Hex nut (6 pcs.)

## Packard 3.3 Inch Diameter Motors - Open Enclosure

### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>Packard - Single Shaft</b>											
82621	1/10	115	1550	3.80	1	CCW	5/16 x 1 1/2	3 5/8	Ball	Stud	Nutone 67176 Nutone 32997 UE 621



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Single Shaft</b>												
<b>NEW</b> 40188	1/20	208-230	1500	0.90	1	CW	5/16 x 2 5/16	2 3/4	Sleeve	Stud	Emerson 9648 Fedders S196-00047-002	329
40189	1/20	208-230	1500	0.90	1	CCW	5/16 x 2 5/16	2 3/4	Sleeve	Stud	Emerson 9647	329
40132	1/20	115	1550	1.80	1	CW	5/16 x 2 1/4	2 3/4	Sleeve	Stud	Heatcraft/Bohn	329
40133	1/20	115	1550	1.80	1	CCW	5/16 x 2 1/4	2 3/4	Sleeve	Stud	Heatcraft/Bohn	329

Notes:  
329. Motor has 4 studs on both ends

## Packard 3.3 Inch Diameter Motors - Open Enclosure

### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Single Shaft</b>												
40030	1/25	115	1550	1.70	1	CW	5/16 x 2 1/2	2 11/16	Sleeve	Stud	UE 30	
40031	1/25	115	1550	1.70	1	CCW	5/16 x 2 1/2	2 3/4	Sleeve	Stud	UE 31	
40514	1/30	115	1550	1.30	1	CW	5/16 x 2 3/8	2 5/8	Sleeve	Stud	Emerson 9628 UE 28	329
40515	1/30	115	1550	1.30	1	CCW	5/16 x 2 3/8	2 5/8	Sleeve	Stud	UE 29	329



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Single Shaft</b>												
82584	1/30	120	1550	1.3	1	CCW	5/16 x 1 7/8	2 1/2	Sleeve	Resilient Hubs	Broan 97008584	513



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Single Shaft</b>												
40126	1/40	115	1500	1.10	1	CW	5/16 x 2 1/4	2 7/16	Sleeve	Stud	UE 26	329
40127	1/40	115	1500	1.10	1	CCW	5/16 x 2 1/4	2 7/16	Sleeve	Stud	Trane MOT-6227 UE 27	329



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Single Shaft</b>												
40752	1/40	120	1500	1.30	1	CCW	1/4 x 1 1/2	2 1/8	Sleeve	Stud	Broan 97009752 Broan 99080096 Broan 99080345 UE 632	512 482



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Double Shaft</b>												
82973	1/15	120	1600	2.6	1	CCWLE	2 1/2 x 5/16 x 2 1/2	3 1/2	Sleeve	Stud	Broan 99080359	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard - Double Shaft</b>												
82011	1/30	115	3000	1.10	1	CWLE	1 1/2 x 1/4 x 1 1/2	2 7/8	Sleeve	Stud	UE 11	
82127	1/40	115	1550	1.10	3	CCWLE	2 1/2 x 1/4 x 2 1/2	2 1/2	Sleeve	Stud	UE 395	
82128	1/40	115	1500	1.30	3	CCWLE	2 1/2 x 5/16 x 2 1/2	2 1/4	Sleeve	Stud		

### Notes:

329. Motor has 4 studs on both ends  
482. Two prong plug and cord attached

512. With cord and 2 prong 90 degree plug  
513. Special plug and cord attached



# MOTORS | 3.3 Inch Diameter Motors

## Packard 3.3 Inch Diameter Motors - Open Enclosure

### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
41107	1/20	115	1550	1.5	1	CW	5/16 x 2 1/2	3	Sleeve	Stud	RMR 1107	431
44107	1/20	208-230	1550	1.1	1	CW	5/16 x 2 1/2	3	Sleeve	Stud	RMR 4107	431



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
80391	1/20	115	1550	2.1	1	CW	5/16 x 2 3/8	3 7/8	Sleeve	Stud	UE 307	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
40933	1/50	120	1550	1.20	1	CCW	1/4 x 1	1 7/8	Sleeve	Stud	Nutone 86933 Nutone 86933000 Universal JA2B104N	482



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
82633	1/50	120	1400	0.78	1	CW	5/16 x 1 3/8	2 1/2	Sleeve	1 1/8" Hex Hubs	BROAN 99080273 BROAN 99080274 BROAN 99080633 UE 633	513



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
40120	1/70	115	1500	0.70	1	CW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	Emerson 9621 UE 14	329
40121	1/70	115	1550	0.70	1	CCW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	Trane MOT-6225 UE 15	329



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
<b>Packard</b>												
80865	1/70	115	1550	0.66	1	CCW	1/4 x 2 5/8	2 3/8	Sleeve	1 1/8" Hex Hubs	Nutone 26721	41
80913	1/70	115	1550	0.66	1	CW	1/4 x 1 1/2	2 3/8	Sleeve	1 1/8" Hex Hubs	Nutone C30434	41

#### Notes:





41. 1 1/8" Hubs  
329. Motor has 4 studs on both ends

431. Mechanically Reversible  
482. Two prong plugs and cord attached

513. Special plug and cord attached

## 3.3 Inch Diameter Motors | MOTORS

### Packard 3.3 Inch Diameter Motors - Open Enclosure


Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
 <b>82510</b>	1/70	115	1320	0.85	1	CW	1/4 x 1 1/8	2 1/16	Sleeve	1 1/8" Hex Hubs	Nutone C65073	41 482
 <b>80600</b>	1/80	115	3000	0.65	1	CW	1/4 x 2 1/8	2 1/2	Sleeve	Stud	Emerson 9613 Nutone 16553 UE 32	41
 <b>82583</b>	1/100	120	1550	0.55	1	CCW	5/16 x 1 3/4	2 9/16	Sleeve	1 1/8" Hex Hubs	Broan 97008583	45 513
 <b>82308</b>	1/100	115	3000	0.57	1	CCW	1/4 x 2 1/2	2 1/16	Sleeve	Stud	Emerson 9600 Magnetek 308 UE 308	

**Notes:**  
 41. 1 1/8" Hubs  
 45. Impedence Protected  
 482. Two prong plugs and cord attached  
 513. Special plug and cord attached


### Fasco 3.3 Inch Diameter Motors - Open Enclosure

#### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end
- 4 studs on each end

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
 <b>D202</b>	1/85	115	3000	0.60	CW	1/4 x 2 1/4	2 3/8	Sleeve	Stud	496
<b>D120</b>	1/70	115	1500	0.70	CW	1/4 x 2 1/4	2 1/8	Sleeve	Stud	496
<b>D121</b>	1/70	115	1500	0.70	CCW	1/4 x 2 1/4	2 1/8	Sleeve	Stud	496
<b>D126</b>	1/40	115	1500	1.10	CW	5/16 x 2 1/4	2 1/2	Sleeve	Stud	496
<b>D127</b>	1/40	115	1500	1.00	CCW	5/16 x 2 1/4	2 1/2	Sleeve	Stud	496
<b>D203</b>	1/40	115	3000	1.00	CCW	1/4 x 2 1/4	2 3/4	Sleeve	Stud	496

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
 <b>D130</b>	1/40	115	1500	1.00	CW	5/16 x 4 1/8	3 1/3	Sleeve	Stud	Emerson 3803 Trane MOT-6221	496
<b>D131</b>	1/40	115	1500	1.00	CCW	5/16 x 2 1/4	3 1/3	Sleeve	Stud		496

**Notes:**  
 496. 4 studs on each end

# MOTORS | 3.3 Inch Diameter Motors

## Fasco 3.3 Inch Diameter Motors - Open Enclosure

### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end
- 4 studs on each end



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Single Shaft</b>									
<b>D206</b>	1/30	115	3000	1.20	CW	1/4 x 2 1/4	2 3/4	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Single Shaft</b>									
<b>D208</b>	1/30	115	3000	1.10	CW	1/4 x 3	3 5/8	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Single Shaft</b>									
<b>D210</b>	1/25	115	3000	1.30	CW	1/4 x 2 1/4	3 1/4	Sleeve	Stud
<b>D188</b>	1/20	230	1500	0.90	CW	5/16 x 2 1/4	2 7/8	Sleeve	Stud
<b>D189</b>	1/20	230	1500	0.90	CCW	5/16 x 2 1/4	2 7/8	Sleeve	Stud
<b>D133</b>	1/20	115	1500	1.80	CCW	5/16 x 2 1/4	2 3/4	Sleeve	Stud
<b>D132</b>	1/20	115	1500	1.80	CW	5/16 x 2 1/4	2 3/4	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Double Shaft</b>									
<b>D129</b>	1/125-1/200	115	1500	0.40-0.30	DS	3 1/4 x 1/4 x 3 1/4	2 1/8	Sleeve	Stud
<b>D128</b>	1/40-1/50-1/80	115	1500	1.30-0.90-0.60	DS	4 x 5/16 x 4	2 1/2	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Double Shaft</b>									
<b>D207</b>	1/30	230	3000	0.60	DS	2 1/4 x 1/4 x 2 1/4	2 3/4	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Double Shaft</b>									
<b>D209</b>	1/30	115	3000	1.10	DS	3 1/4 x 1/4 x 3 1/4	3 5/8	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
<b>Fasco - Double Shaft</b>									
<b>D213</b>	1/15	115	3000	2.10	DS	2 3/4 x 1/4 x 2 3/4	3 7/8	Sleeve	Stud
<b>D211</b>	1/15	230	3000	1.10	DS	2 1/2 x 1/4 x 2 1/2	3 7/8	Sleeve	Stud

## 3.3 Inch Diameter Motors | MOTORS

### Packard 3.3 Inch Diameter Motors - Totally Enclosed

#### Applications

Ideal replacement for many range hoods

#### Features

- Shaded pole
- Totally enclosed
- Stud mounting
- Automatic overload
- Single phase
- 60 Hertz
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
40122	1/80	115	1550	0.65	1	CW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	329
40123	1/80	115	1550	0.65	1	CCW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	329



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
82500	1/70	115	3000	1.04	1	CCW	1/4 x 1	2 3/8	Sleeve	Stud	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
80402	1/60	115	3000	0.75	1	CW	1/4 x 1 3/4	2 3/8	Sleeve	Stud	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
80403	1/60	115	3000	0.75	1	CCW	1/4 x 1 3/4	2 3/8	Sleeve	Stud	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
40124	1/50	115	1500	0.88	1	CW	1/4 x 2 1/4	2 3/8	Sleeve	Stud	329
40125	1/50	115	1550	0.80	1	CCW	1/4 x 2 1/4	2 3/8	Sleeve	Stud	329



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Notes
<b>Packard</b>											
41105	1/50	115	1550	1.0	1	CW	1/4 x 2 1/2	2 3/8	Sleeve	Stud	431



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>Packard</b>											
82259	1/30-1/100	115	1550/1100	1.1/0.62	2	CCW	5/16 x 1 3/4	2 3/4	Sleeve	Stud	Westinghouse D481-3-259
82260	1/30-1/100	115	1550/1100	1.1/0.62	2	CW	5/16 x 1 3/4	2 3/4	Sleeve	Stud	

Notes:  
329. Motor has 4 studs on both ends

431. Mechanically Reversible




# MOTORS | 3.3 Inch Diameter Motors


## Fasco 3.3 Inch Diameter Motors - Totally Enclosed

### Features


- Shaded Pole
- Automatic Overload
- Single Phase
- Totally Enclosed
- 60 HZ
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Levs Shaft (In.)	Bearings	Mounting
<b>Fasco</b>										
D122	1/80	115	1500	0.60	1	CW	1/4 x 2 1/4	2 1/8	Sleeve	Stud
D123	1/80	115	1500	0.60	1	CCW	1/4 x 2 1/4	2 1/8	Sleeve	Stud
D124	1/50	115	1500	0.75	1	CW	1/4 x 2 1/4	2 1/2	Sleeve	Stud
D125	1/50	115	1500	0.75	1	CCW	1/4 x 2 1/4	2 1/2	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Levs Shaft (In.)	Bearings	Mounting
<b>Fasco</b>										
D205	1/40-1/70	115	3000	1.00-0.50	1	DS	3 x 1/4 x 3	2 7/8	Sleeve	Stud




Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Levs Shaft (In.)	Bearings	Mounting
<b>Fasco</b>										
D214	1/20	115/230	3000	1.70-0.80	1	CW	5/16 x 6 1/2	4 5/8	Sleeve	Stud

## 3.3 Inch Diameter Nutone Replacement Assemblies

### Features

- Complete assembly
- Shaded pole
- 60 Hertz
- Includes motor, mounting bracket and blower wheel
- Automatic overload
- Includes 2-prong plug




Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Enclosure	Mounting	Replaces
<b>Packard</b>												
40695	1/100	120	1180	0.60	1	CCWLE	1/4 x 1 1/8	SP	Sleeve	Open	Mounting Plate	Nutone 0695B000
40696	1/45	115	1400	0.86	1	CCWLE	1/4 x 1	SP	Sleeve	Open	Mounting Plate	Nutone 0696B000 Nutone 86322


## 3.3 Inch Diameter Fan And Blower Duty Nutone Replacements

### Features

- Direct replacements for Nutone and many other popular range hoods
- Shaded pole
- 60 Hertz
- Rotation is determined by viewing the shaft end
- Stud and ring mounting
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82512	1/100	115	1550	0.70	CCW	1/4 x 1 1/8	2 1/16	Sleeve	Totally Enclosed	Nutone 26750 Nutone 26761	42



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82513	1/100	115	1550	0.70	CCW	1/4 x 1 1/4	2 1/16	Sleeve	Totally Enclosed	Nutone 23388 Nutone 23405	41, 42

Notes:  
41. 1 1/8" Hubs

42. Includes cord and plug

## 3.3 Inch Diameter Motors | MOTORS

### 3.3 Inch Diameter Fan And Blower Duty Nutone Replacements

#### Applications

Direct replacements for Nutone and many other popular range hoods

#### Features

- Rotation is determined by viewing the shaft end
- Shaded pole
- Stud and ring mounting
- 60 Hertz
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82514	1/100	115	1550	0.70	CW	1/4 x 1 1/8	2 1/16	Sleeve	Totally Enclosed	UE 692	42
82635	1/91	115	1550	0.45	CCW	1/4 x 1 1/8	2.09	Sleeve	Totally Enclosed	Nutone 54123 Nutone 54257	42



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
80600	1/80	115	3000	0.65	CW	1/4 x 2 1/8	2 1/2	Sleeve	Open	Emerson 9613 Nutone 16553	41



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82637	1/75	115	1550	0.63	CCW	1/4 x 1 1/8	2	Sleeve	Totally Enclosed	Nutone 53581	42



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82510	1/70	115	1320	0.85	CW	1/4 x 1 1/8	2 1/16	Sleeve	Open	Nutone C65073	41, 482



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82694K	1/70	115	3000	1.04	CCW	1/4 x 1	2 3/8	Sleeve	Totally Enclosed	Emerson 2694	42



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82733	1/50-1/80	115	3000	1.00-0.60	CW	1/4 x 1 1/4	2.59	Sleeve	Totally Enclosed	Nutone C26733	42



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
40933	1/50	120	1550	1.20	CCW	1/4 x 1	1 7/8	Sleeve	Open	Nutone 86933 Nutone 86933000 Universal JA2B104N	482



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
<b>Packard</b>											
82621	1/10	115	1550	3.80	CCW	5/16 x 1 1/2	3 5/8	Ball	Open	Nutone 67176 Nutone 32997	

#### Notes:

41. 1 1/8" Hubs

42. Includes cord and plug

482. Two prong plug and cord attached



# MOTORS | 3.3 Inch Diameter Motors

## Direct Replacements for Bohn & Larkin

### Features

- Stud mounting
- Single speed, single phase
- Special Lyall plug and cord included
- Sleeve bearings
- Open enclosure
- Automatic overload
- 60 Hertz
- All copper windings
- Low temp oil



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Replaces	Notes
<b>Packard</b>										
41101	1/20	120	1500	1.90	CCWSE	5/16 x 2 1/4	2 3/4	Shaded Pole	Larkin 253-1194 UE 574	329, 551
41103	1/20	208-230	1500	0.93	CCWSE	5/16 x 2 1/4	2 7/8	Shaded Pole	Larkin 253-1195 UE 575	329, 551



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Replaces	Notes
<b>Packard</b>										
41124	1/15	120	1550	2.00	CWSE	5/16 x 3	3	Shaded Pole	BOHN 5008S UE 572A	329, 513, 551
41126	1/15	208-230	1550	1.10	CWSE	5/16 x 3	3 1/2	Shaded Pole	BOHN 5008T BOHN 5034L UE 573A	329, 513, 551



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Replaces	Notes
<b>Packard</b>										
41125	1/12	208-230	1550/1400	0.50	CCWSE	5/16 x 2 5/8	3 1/2	PSC	BOHN 25305101 BOHN 7071061	304, 551
Notes:										
304. Run capacitor mounted on motor shell						329. Motor has 4 studs on both ends		551. Low Temp. Oil		513. Special plug and cord attached

## Direct Replacement for Krack

### Features

- Shaded pole
- Totally enclosed
- Automatic overload
- 50/60 Hertz
- Rotation is determined by viewing the shaft end
- Low Temp Oil



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>Packard</b>											
41189	1/20	115/ 208-230	1350/1550	1.60/0.80	1	CWSE	5/16 x 1 5/8	3 1/16	Ball	Lug	Franklin 8254111030 Franklin 8354110940 Krack 11528 Krack 11529 Universal JA2P216N Universal JA2P217N Universal JB2P046N Universal JB2P047N

## Permanent Split Capacitor Replacements for Bohn, Emerson, GE and Heatcraft

### Features

- Permanent split capacitor
- Multi-Horsepower
- Electrically reversible, includes reversing plug
- Open enclosure
- Single phase
- 50/60 Hertz
- All angle mounting
- UL recognized
- Capacitor mounted on motor
- Low temp oil



Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>Packard</b>									
49101*	1/12-1/15-1/20	115/208-230	1550/1400	1.10/0.60	5/16 x 3 1/8	3 5/8	Ball	Stud	GE 5KSM59ES2001 GE 5KSM59JS5036S GE 5KSM59JSK1435 GE 5KSM59LS2262AS Heatcraft 25309101 Heatcraft 7071061



Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>FASCO</b>									
9721	1/12	115/208-230	1550	1.10/0.50	5/16 x 3 1/4	3 5/8	Ball	Stud	BOHN 25309101 Emerson 9656 Emerson 9664 Heatcraft 7071061

Notes: \*Has all copper windings



## 4 1/8 Inch Diameter Fan and Blower Motor

### Features

- Stud and hub mount
- 1.2" diameter hubs both ends
- Replaces Franklin 8414040471 and 9414310111



Item ID	HP	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Enclosure
<b>Packard</b>									
80958	1/8	115	1550	3.8	1	CWSE	3/8 x 2 3/8	Shaded Pole	Open

## 4.4 Inch Diameter Fan Coil Motors

### Features

- Sleeve bearings
- Automatic overload
- Open enclosure
- 60 Hertz
- Shaded pole
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Mounting
<b>Fasco Shaded Pole</b>								
D236	1/10-1/15-1/25	115	1550	3.50-2.40-1.80	7 1/2 x 1/2 x 7 1/2	3 3/8	Open	Resilient Base
D336	1/10-1/15-1/25	115	1550	3.50-2.40-1.80	7 1/2 x 3/8 x 7 1/2	3 1/2	Open	Resilient Rings
D337	1/8-1/10-1/12-1/15	115	1550	4.10-2.70-2.30-1.90	7 1/2 x 1/2 x 7 1/2	3 5/8	Open	Resilient Rings
D339	1/8-1/12	230	1550	2.00-1.40	6 1/2 x 1/2 x 6 1/2	4 1/8	Open	Resilient Rings
D338	1/6-1/10-1/12-1/15	115	1550	5.40-3.20-2.50-2.10	7 1/4 x 1/2 x 7 1/4	4 1/8	Open	Resilient Rings

## 42 Frame Fan Coil Motors

### Features

- Sleeve bearings
- Automatic overload
- Models without a base fit existing bases on most fan coil units
- Shaded pole and PSC
- Open enclosure
- Single phase
- 60 Hertz



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting	Replaces
<b>Packard Shaded Pole</b>										
40089	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 5/8	Base	Magnetek 89
40093	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 3/8 x 10 5/8	3 5/8	Base	
40320	1/10	208-230	1050	2.40	3	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 3/8	Base	Magnetek 320



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting	Replaces	Notes
<b>Packard Shaded Pole</b>											
40389	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 3/8	2 1/2 Rings	Magnetek 389	28



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting	Replaces	Notes
<b>Packard Shaded Pole</b>											
40347	1/8	115	1550	3.30	4	Double Shaft	10 x 1/2 x 10	4	Hex Hubs	Universal 347	9, 28



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting	Replaces	Notes
<b>Packard PSC</b>											
82456*	1/25	115	1075	0.80	5	CCWLE	10 5/8 x 1/2 x 10 5/8	3 3/8	Resilient Base	Trane	471

Notes: 9. No mounting rings  
\*Ball Bearing Motor

28. No base

471. Capacitor mounted on motor



## 42 Frame Fan Coil Motors

### Features

- Sleeve bearings
- Automatic overload
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting
<b>Fasco Shaded Pole</b>								
D255	1/25-1/50-1/80	115	1050	1.50-1.00-0.60	7 1/2 x 1/2 x 7 1/2	3 1/4	Open	Resilient Rings
D252	1/20-1/40-1/70	115	1050	1.60-0.80-0.50	7 1/2 x 3/8 x 7 1/2	2 5/8	Open	Resilient Rings
D253	1/20-1/40-1/50	115	1050	2.20-1.40-0.80	7 1/2 x 1/2 x 7 1/2	2 5/8	Open	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Shaded Pole</b>									
D251	1/15-1/35-1/50	208-230	1050	1.20-0.50-0.40	9 1/4 x 1/2 x 8 1/2	2 5/8	Open	Resilient Base	34



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting
<b>Fasco Shaded Pole</b>								
D254	1/15-1/30-1/50	115	1050	2.10-1.30-0.80	8 x 3/8 x 8	3 1/4	Open	Resilient Rings
D389	1/15-1/20-1/30-1/50	115	1050	2.40-1.60-1.10-0.80	10 1/4 x 1/2 x 10 1/4	3 1/8	Open	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting
<b>Fasco Shaded Pole</b>								
D257	1/15-1/20-1/25	277	1050	1.10-0.70-0.60	9 x 1/2 x 9	3 1/4	TE	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Shaded Pole</b>									
D289	1/10-1/30-1/40-1/45-1/50	115	1050	3.60-1.60-1.20-0.80-0.60	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	34
D293	1/10-1/30-1/40-1/45-1/50	115	1050	3.60-1.60-1.20-0.80-0.60	10 3/4 x 3/8 x 10 3/4	3 1/4	Open	Resilient Base	34



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting
<b>Fasco Shaded Pole</b>								
D256	1/10-1/20-1/30	115	1050	3.40-1.70-1.00	8 x 1/2 x 8	3 7/8	Open	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D294	1/10-1/20-1/25-1/35-1/50	115	1050	1.30-1.00-0.70-0.60-0.50	10 3/4 x 3/8 x 10 3/4	3 1/4	Open	Resilient Base	
D291	1/10-1/15-1/25-1/40	115	1050	2.20-1.40-1.00-0.70	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	514




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D290	1/10-1/15-1/25-1/40	115	1050	2.20-1.40-1.00-0.70	1/2 x 8 1/2	3 1/4	Open	Resilient Rings	514 517

Notes:  
34. 3 1/2" shaft height


514. 4MFD 370V capacitor included

517. Electrically reversible


## 42 Frame Fan Coil Motors




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D292	1/10-1/15-1/25-1/35	208-230	1050	1.00-0.70-0.40-0.30	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	514




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D277	1/10-1/12-1/20	277	1050	0.70-0.50-0.40	8 1/2 x 1/2 x 8 1/2	3 7/8	Open	Resilient Rings	514



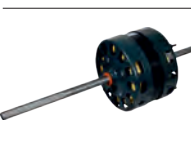
Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D347	1/8-1/10-1/15-1/20	115	1550	2.30-1.60-1.20-0.70	10 1/2 x 1/2 x 10 1/2	3	Open	Resilient Rings	250, 514




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D354	1/6-1/10-1/20	115	1050	3.10-1.50-1.10	8 1/2 x 1/2 x 8 1/2	3 7/8	Open	Resilient Rings	514




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D247	1/6-1/8-1/12	230	1550	1.00-0.70-0.50	8 x 1/2 x 8	3 7/8	Open	Resilient Rings	514




Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Fasco Permanent Split Capacitor</b>									
D1092	1/3	115	1675	3.4	7 15/16 x 1/2 x 3 1/2	3 1/2	Open	Belly Band	



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Century Shaded Pole</b>									
DBL4411	1/10-1/12-1/20-1/25	115	1550	3.5	10 11/16 x 3/8 x 10 11/16	3 3/8	Open	Resilient Base	



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Notes
<b>Century Shaded Pole</b>									
DBL4404	1/10-1/15-1/20	115	1550	3.50	9 5/16 x 1/2 x 9 5/16	3 3/8	Open	Resilient Base	
DB6407	1/10-1/15-1/20-1/25	208-230	1050	1.60	9 5/16 x 1/2 x 9 5/16	3 3/8	Open	Resilient Base	
DBL6409	1/10-1/15-1/20-1/25-1/30	115	1050	3.50	10 5/16 x 1/2 x 10 5/16	3 3/8	Open	Resilient Base	

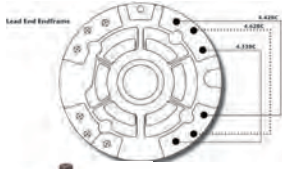


Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Cap. Req.	ENCL.	Mounting	Notes
<b>Century Permanent Split Capacitor</b>										
DBL4500V1	1/10-1/12-1/15	115	1625	1.30-1.00-0.70	9 5/16 x 1/2 x 9 5/16	3 3/8	5mfd 370V	Open	Resilient Base	
DBL6501	1/10-1/12-1/15-1/20	115	1075	1.70	10 5/16 x 1/2 x 10 5/16	3 3/8	5mfd 370V	Open	Resilient Base	
DB6502V1	1/10-1/15-1/20-1/25	208-230	1075	0.70-0.50-0.40-0.30	9 5/16 x 1/2 x 9 5/16	3 3/8	5mfd 370V	Open	Resilient Base	
DB4505	1/5-1/10-1/20	230	1500	1.50	9 5/16 x 1/2 x 9 5/16	3 3/8	5mfd 370V	Open	Resilient Base	
DB6525	1/4-1/6-1/10	208-230	1075	2.00	10 x 1/2 x 10	4 1/16	5mfd 370V	Open	Resilient Base	

Notes: 250. Mounting rings not included 514. 4M 370V capacitor included



## MultiFit® Condenser Fan Motors



### Features

Replaces hundreds of 1/4 - 1/12 horsepower applications

- All angle mount
- Class B insulation
- Reversing plug
- Totally enclosed
- 36 inch leads
- 60°C ambient
- Single speed
- Multi-mounting system
- Double sealed ball bearings
- Energy efficient PSC design
- One simple connection eliminates the need to select various horsepower or change capacitor sizes



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Hertz	Replaces
<b>Century</b>										
9722	1/8	208-230	1075	0.90	1/2 x 3	4	Ball	5MFD/370V	60	GE 2243 GE 2248 GE 2249 GE 2251
	1/10		1135	0.60						
	1/12		1155	0.50						
9723	1/4	208-230	1075	2.00	1/2 x 3	4 1/2	Ball	7.5MFD/370V	60	GE 2244 GE 2245 GE 2246 GE 2247 GE 2250
	1/5		1145	1.20						
	1/6		1165	1.00						
9724	1/4	208-230	1625	1.60	1/2 x 3	4 1/2	Ball	5MFD/370V	60	
	1/5		1715	1.00						
	1/6		1759	0.70						

## 5 Inch Diameter Unit Heater Motors

### Features

- U6520 and U6521 have capacitor mounted on motors
- Permanent split capacitor and shaded pole
- Automatic overload
- Sleeve bearings
- Totally enclosed
- Reznor replacements
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting
<b>Packard</b>										
70385	1/40	115	1050	1.60	1	CWSE	1/2 x 2 1/2	2 3/4	Shaded Pole	Stud and Mounting Rings



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Notes
<b>Packard</b>											
70224	1/20	115	1050	2.30	1	CWSE	1/2 x 3	3 7/8	Shaded Pole	Stud	9



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting
<b>Packard</b>										
40387	1/15	115	1050	3.10	1	CWSE	1/2 x 2 5/8	3 5/8	Shaded Pole	Stud and Mounting Rings
40386	1/8	115	1050	5.50	1	CWSE	1/2 x 3 3/8	3 7/8	Shaded Pole	Stud and Mounting Rings



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Cap. Required	Type	Mounting	Notes
<b>Century</b>												
U6520	1/8	115	1075	2.60	1	Reversible	1/2 x 3	3 7/8	5mfd 370V	PSC	Resilient Rings	201, 504



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Cap. Required	Type	Mounting	Notes
<b>Century</b>												
U6521	1/8	115	1075	2.60	1	REV.	1/2 x 2 7/8	3 7/8	5mfd 370V	PSC	Resilient Base	201, 504, 505



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting	Notes
<b>Century</b>											
U6432	1/15	115	1050	3.30	1	CWSE	1/2 x 2 5/8	3 5/8	Shaded Pole	Resilient Base	555

Notes:  
9. No mounting rings  
201. 3 thru bolts, 4.42 dia. bolt circle

504. 60" leads  
505. 2.6" shaft height

555. 3.5" shaft height

## 5 Inch Diameter Unit Heater Motors

**Features**

- Shaded Pole
- Automatic overload
- Sleeve bearings
- Totally enclosed
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Mounting
<b>Century</b>										
U6433	1/15	115	1050	3.30	1	CWSE	1/2 x 2 7/8	3 5/8	Shaded Pole	Stud

## 5 5/8 Inch Diameter Unit Heater Motors

**Features**

- Permanent split capacitor
- Continuous duty air over
- Ball bearing
- Class B insulation
- Single phase
- Includes capacitor mounted on motor
- Horizontal or vertical mounting
- Dual bolt circle applications, 30-60 degree and 45 degree
- Automatic overload
- UL recognized
- Mounting clamps included

**Replaces**

- Brownell MTG3206
- Emerson 9034
- GE 3206
- Marathon X302
- Packard 70066
- Reznor 55682
- Rotom R12834
- Trane MOT6195



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearing	Cap. Required	ENCL.	Mounting	Hertz	Overload	Frame
<b>Packard</b>															
40066	1/6	115	1075	2.40	1	REV.	1/2 x 3 3/8	4 1/2	Ball	4mfd 370V	TE	Stud & Resilient	60	Automatic	48

**Features**

- Permanent split capacitor
- Totally enclosed
- Automatic overload
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Cap. Required	Frame	Mounting	Notes
<b>Century</b>												
US1016NB	1/6	115	1075	2.80	Reversible	1/2 x 3	4 3/8	Sleeve	4mfd 370V	48	Stud	28, 210, 411, 504
UH1016	1/6	115	1075	2.20	Reversible	1/2 x 3 1/4	4 1/4	Ball	4mfd 370V	48	Resilient Base	27, 208, 411, 504
US1016	1/6	115	1075	2.80	Reversible	1/2 x 2 1/2	4 3/8	Sleeve	4mfd 370V	48	Resilient Base	27, 210, 411, 504
UH1026	1/4	115	1075	4.90	Reversible	1/2 x 2 1/2	4 3/8	Ball	4mfd 370V	48	Resilient Base	27, 210, 411, 504
US1026	1/4	115	1075	4.90	Reversible	1/2 x 2 1/2	4 3/8	Sleeve	4mfd 370V	48	Resilient Base	27, 210, 411
US1026NB	1/4	115	1075	4.90	Reversible	1/2 x 2 1/2	4 3/8	Sleeve	4mfd 370V	48	Stud	28, 210, 411, 504
US1036	1/3	115	1075	5.30	Reversible	1/2 x 3	4 5/8	Sleeve	5mfd 370V	48	Resilient Base	210, 411, 504
US1036NB	1/3	115	1075	5.30	Reversible	1/2 x 3	4 5/8	Sleeve	5mfd 370V	48	Stud	28, 210, 411
UH1036	1/3	115	1075	5.30	Reversible	1/2 x 3	4 5/8	Ball	5mfd 370V	48	Resilient Base	210, 411, 504

**Notes:**  
 27. Has a 3" shaft height  
 28. No base  
 208. 60° C ambient  
 210. 40° C ambient  
 411. 4 thru bolts and 4 dummy studs on a 5.15" diameter bolt circle  
 504. 60° leads

# MOTORS | Direct Drive Blower Motors

## 5 Inch Diameter Shaded Pole Direct Drive Blower Motors

### Features

- Shaded pole
- Automatic overload
- 60 Hertz
- CWSE rotation
- 42 Frame
- Single phase



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Mounting
<b>Packard</b>											
<b>40140</b>	1/15	115	1050	2.7	1	3/8 x 2 3/8	2 5/8	SP	Sleeve	Open	Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Mounting
<b>Packard</b>											
<b>40096</b>	1/15-1/30	115	1050	2.65	2	3/8 x 2 3/8	2 5/8	SP	Sleeve	Open	Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Mounting	Replaces
<b>Packard</b>												
<b>40180</b>	1/8-1/11	115	1050	4.5-3.4	2	1/2 x 4	3 3/16	SP	Sleeve	Open	Belly Band	Coleman



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Mounting
<b>Packard</b>											
<b>40317</b>	1/8-1/10	230	1050	2.1-1.8	2	1/2 x 3 1/2	3 3/16	SP	Sleeve	Open	Resilient Hub/Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Mounting	Replaces
<b>Packard</b>												
<b>40099</b>	1/8-1/10-1/12	115	1050	4.30-3.5-3.0	3	1/2 x 3 1/2	4.19	SP	Sleeve	Open	Stud	GE 3541 GE 3931 Magnetek 98
<b>40318</b>	1/6	208-230	1050	3.10-2.20	2	1/2 x 3 1/2	4.00	SP	Sleeve	Open	Belly Band	Trane MOT-6139
<b>40166</b>	1/6	115	1050	6.60	2	1/2 x 4 1/2	3 7/8	SP	Sleeve	Open	Resilient Rings	
<b>40849</b>	1/6	115	1050	5.50	1	1/2 x 3 3/4	3 7/8	SP	Sleeve	Open	Resilient Rings	
<b>40850</b>	1/5	115	1050	6.50	1	1/2 x 5 1/2	3 3/8	SP	Sleeve	Open	Resilient Rings	
<b>40851</b>	1/5	115	1050	6.30	2	1/2 x 4 1/4	3 7/8	SP	Sleeve	Open	Resilient Rings	
<b>40852</b>	1/5	115	1050	7.3-4.8-3.8	3	1/2 x 5	3 7/8	SP	Sleeve	Open	Resilient Rings	
<b>40853</b>	1/5	208-230	1050	3.20	3	1/2 x 5 1/2	3 7/8	SP	Sleeve	Open	Resilient Rings	

### Features

- Shaded pole
- Single phase
- 1050 RPM
- 60 Hertz
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Bearings	Mounting
<b>Fasco Shaded Pole</b>											
<b>D340</b>	1/40	115	1050	1.1	1	CWSE	3/8 x 2 5/8	2 5/8	TE	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Bearings	Mounting
<b>Fasco Shaded Pole</b>											
<b>D143</b>	1/30-1/40	115	1050	1.5-1	2	CCWSE	1/2 x 1 5/8	2 1/4	Open	Sleeve	Belly Band



## Fasco 5 Inch Diameter Direct Drive Blower Motors

### Features

- Shaded pole or permanent split capacitor
- Sleeve bearings
- Open enclosure
- Automatic overload
- Single phase
- 60 Hertz
- 1050 RPM



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Bearings	Mounting
<b>Fasco Shaded Pole</b>											
D176	1/10-1/20	115	1050	3.9-1.7	2	CWSE	3/8 x 3	2 5/8	Open	Sleeve	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Bearings	Mounting	Notes
<b>Fasco Shaded Pole</b>												
D180	1/8	115	1050	4.50	2	CWSE	1/2 x 4	3 1/4	Open	Sleeve	Resilient Rings	9, 19, 20



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Bearings	Mounting	Notes
<b>Fasco Shaded Pole</b>												
D156	1/6	115	1050	6.60	1	CWSE	1/2 x 3 7/8	3 7/8	Open	Sleeve	Resilient Rings	
D166	1/6-1/9	115	1050	7.20	2	CWSE	1/2 x 3 1/2	3 7/8	Open	Sleeve	Resilient Rings	
D318	1/6-1/8	230	1050	3.10	2	CWSE	1/2 x 3 1/2	4	Open	Sleeve	Stud	9
D158	1/5-1/6-1/7	115	1050	6.70	3	CWSE	1/2 x 4 1/8	3 7/8	Open	Sleeve	Resilient Rings	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting
<b>Fasco Shaded Pole</b>											
D356	1/8-1/10-1/12	115	1050	4.70-3.70-3.20	3	CWSE	1/2 X 3 1/2	3 1/8	SP	Sleeve	Stud



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Cap. Required	Bearings	Mounting
<b>Fasco Permanent Split Capacitor</b>												
D151	1/4-1/5-1/6	230	1050	2.00-1.40-1.10	3	Rev.	1/2 x 6	4 1/8	PSC	7.5mfd 370V	Sleeve	Stud
D150	1/4-1/5-1/6	115	1050	4.10-3.20-2.50	3	Rev.	1/2 x 6	4 1/8	PSC	7.5mfd 370V	Sleeve	Stud
D152	1/4-1/5-1/6-1/8	277	1050	1.50-1.10-0.80-0.70	4	Rev.	1/2 x 6	4 1/8	PSC	7.5mfd 370V	Sleeve	Stud

### Notes:

9. No mounting rings

19. Drilled and tapped for Coleman mounting

20. For International Oil Burner Co.

**TechTip**  
from Packard Academy

A BLOWER MOTOR CAN TRIP-OUT ON OVERLOAD EVEN IF THE AMPS ARE BELOW NAMEPLATE RATING.

# MOTORS | Direct Drive Blower Motors

## 42 Frame Direct Drive Blower Motors

### Features

- 42 Frame
- 60 Hertz
- Open enclosure
- Single phase
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting	
<b>Century</b>												
<b>BL6409</b>	1/12	115	1050	3.10	1	CCWLE	1/2 x 3	3 7/8	Sleeve	SP	Resilient Rings	
<b>BL6408</b>	1/10	115	1050	3.90	1	CCWLE	1/2 x 3	3 7/8	Sleeve	SP	Resilient Rings	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting	Notes
<b>Century</b>												
<b>BL6410</b>	1/8	115	1050	5.20	1	CWSE	1/2 x 5 1/2	3 3/8	Sleeve	SP	Resilient Rings	187, 201, 205



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting
<b>Century</b>											
<b>BL6407</b>	1/6	115	1000	7.80	1	CCWLE	1/2 x 3	3 7/8	Sleeve	SP	Resilient Rings



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting	Notes
<b>Century</b>												
<b>BL6412</b>	1/6	115	1050	5.50	1	CWSE	1/2 x 3 5/8	3 7/8	Sleeve	SP	Resilient Rings	187, 201, 205



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting	Notes
<b>Century</b>												
<b>9640</b>	1/6	115	1550	6.40	1	CWLE	1/2 x 3 5/16	4	Sleeve	SP	Resilient Base	256



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Mounting	Notes
<b>Century</b>												
<b>BL6420</b>	1/6-1/9	115	1050	5.60	2	CWSE	1/2 x 4 1/2	3 7/8	Sleeve	SP	Resilient Rings	187, 201, 205
<b>BL6413</b>	1/5	115	1050	6.00	1	CWSE	1/2 x 5 1/2	3 3/8	Sleeve	SP	Resilient Rings	187, 201, 205
<b>B6415</b>	1/5-1/8-1/10	208-230	1050	3.20	3	CWSE	1/2 x 5 1/2	3 7/8	Sleeve	SP	Resilient Rings	187, 201, 205
<b>BL6414</b>	1/5-1/8-1/10	115	1050	6.50	3	CWSE	1/2 x 5 1/2	3 7/8	Sleeve	SP	Resilient Rings	187, 201, 205
<b>BL6416</b>	1/5-1/8-1/10-1/15	115	1050	7.10	4	CWSE	1/2 x 2 5/8	3 7/8	Sleeve	SP	Resilient Rings	187, 201, 205



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Cap. Required	Mounting	Notes
<b>Century</b>													
<b>B6507</b>	1/5-1/6-1/10	230	1075	1.3-.9-.7	3	Rev.	1/2 x 3	3.5	Sleeve	PSC	7.5mfd 370V	Resilient Rings	187, 201, 205



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Type	Cap. Required	Mounting	Notes
<b>Century</b>													
<b>B6520</b>	1/4-1/5-1/6	230	1075	2.0	3	Rev.	1/2 x 4 5/8	4 1/16	Sleeve	PSC	7.5mfd 370V	Resilient Rings	201

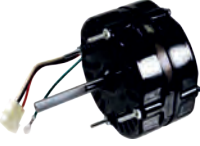
Notes:  
187. Resilient mounting rings included  
201. 3 thru bolts, 4.42 dia. bolt circle

205. Extended thru bolts, shaft end only  
256. Includes base

## Direct Replacements For Loren Cook's Gemini Motors

### Features

- Permanently lubricated sealed sleeve bearings
- Automatic overload
- Made in the USA
- Open enclosure
- 60 Hertz



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	Mounting	Replaces
<b>Packard</b>												
90220	1/114	115	1500	0.75	2	CW	3/8 x 2 3/4	2 3/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 220/240



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	Mounting	Replaces
<b>Packard</b>												
90420	1/23	115	1500	1.50	1	CW	3/8 x 2 3/4	2 5/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 420
90320	1/16	115	1550	2.20	2	CW	3/8 x 2 1/2	2 5/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 320/340



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	Mounting	Replaces
<b>Packard</b>												
90520	1/16	115	1200	1.50	1	CW	3/8 x 2 1/4	3	PSC	5.12	Thru Bolt	Gemini Loren Cook 520
Cap Included												



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	Mounting	Replaces
<b>Packard</b>												
90620	1/11	115	1500	4.60	2	CW	1/2 x 6 1/4	3	Shaded Pole	4.4	Lug Mount	Gemini Loren Cook 620/640
90720	1/4	115	1625	3.90	2	CW	1/2 x 6 1/4	3 3/8	PSC	5.12	Lug Mount	Gemini Loren Cook 720/740
Cap Included												

## Direct Replacements For Greenheck



**NEW**

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
<b>Packard</b>													
90145	1/90	115	950	1.15	CWSE	5/16 x 2 5/8	2 3/4	Sleeve	3.3"	OAO	Stud	SP	Greenheck 310145
90198	1/40	115	1050	1.80	CWSE	5/16 x 2 5/8	3	Sleeve	3.3"	OAO	Stud	SP	Greenheck 310198



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting	Replaces
<b>Packard</b>												
90318	1/8	115	1550/1300/1050	2.60	3	CCWSE	1/2 x 2 3/4	3 5/8	PSC	Ball	Thru Bolt	Greenheck 308318
Cap Included												



**NEW**

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
<b>Packard</b>													
90153	1/4	115	1725	4.60	CCWLE	1/2 x 2	7 5/8	Ball	5.69"	ODP	Resilient Base	Split Phase	Greenheck 309153



**NEW**

Item ID	Watt	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
<b>Packard</b>													
90955	5	115	700	0.19	CWSE	5/16 x 2 3/4	2 1/2	Ball	3.3"	TEAO	Stud	PSC	Greenheck 315038
90038	3	115	675	0.15	CWSE	5/16 x 2 3/4	2 1/2	Ball	3.3"	TEAO	Stud	PSC	Greenheck 314956

# MOTORS | Direct Replacements

## Direct Replacements For Broan / Lomanco

### Features

- Open enclosure
- Automatic overload
- 60 Hertz
- 42 Frame
- Single phase
- Made in the USA



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting	Replaces
<b>Packard</b>												
69316	1/12	120	1100	3.40	1	CWSE	1/2 x 3 1/16	2 1/4	SP	Sleeve	Stud	Broan 97009316
69317	1/7	120	1100	4.30	1	CWSE	1/2 x 2 5/8	2 5/8	SP	Sleeve	Stud	Broan 97009317 Broan 99080267



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting	Replaces
<b>Packard</b>												
70059	1/10	120	1100	3.40	1	CWSE	1/2 x 1 5/8	2 1/4	SP	Sleeve	Lug	Lomanco A0510B2497 Lomanco A0416B2059 Lomanco A0510B2389

## Direct Replacement For L.L. Building Products

### Features

- Open enclosure
- Automatic overload
- 60 Hertz
- Single phase
- Direct replacements for Leslie Locke



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Diameter (In.)	Replaces
<b>Packard</b>											
99320	1/14	120	900	3.40	1	CWSE	1/2 x 2.05	2.25	SP	5.12	L.L. Building V909320



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Diameter (In.)	Capacitor Included	Replaces
<b>Packard</b>												
99319	1/4	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	5.12	10MFD/250V	L.L. Building V909319



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Diameter (In.)	Capacitor Included	Replaces
<b>Packard</b>												
99321	1/5	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	5.12	10MFD/250V	L.L. Building V909321 L.L. Building V909337
99371	1/7	120	1050	2.80	1	CWSE	1/2 x 2.30	3.08	PSC	5.12	8MFD/250V	L.L. Building V909371 L.L. Building V909336

## Genteq Condenser Fan Motors

### Applications

- Designed for condenser fan and heat pump units requiring vertical shaft up or vertical shaft down positioning with “belly band” or extended clamp screw mounting.

### Features

- Permanent split capacitor
- Standard efficiency designs
- Sleeve or ball bearings
- Designed for 370 Volt capacitor, not included
- Mounting holes in shell for capacitor bracket
- Water slinger on shaft
- 26 inch motor leads
- Single phase
- 48 Frame



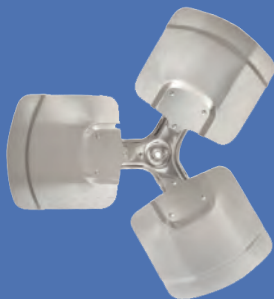
Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Bearings	Cap. Required	Notes
<b>genteq - Shaft Up or Down Application</b>									
3201	1/10	208-230	825	0.80	1	Reversible	Ball	5MFD 370V	1, 5
3202	1/8	208-230	825	1.10	1	Reversible	Ball	5MFD 370V	1, 5
3727	1/6	208-230	1075	1.00	1	Reversible	Sleeve	5MFD 370V	
3203	1/6	208-230	825	1.00	1	Reversible	Ball	5MFD 370V	
3403	1/6	208-230	825	1.00	1	Reversible	Sleeve	5MFD 370V	
3728	1/4	208-230	1075	1.80	1	Reversible	Sleeve	5MFD 370V	1
3732	1/4	208-230	1075	1.80	1	Reversible	Ball	5MFD 370V	2
3204	1/4	208-230	825	1.50	1	Reversible	Ball	5MFD 370V	
3404	1/4	208-230	825	1.50	1	Reversible	Sleeve	5MFD 370V	
3729	1/3	208-230	1075	2.30	1	Reversible	Sleeve	7.5MFD 370V	1, 4
3733	1/3	208-230	1075	2.30	1	Reversible	Ball	7.5MFD 370V	1
3205	1/3	208-230	825	2.20	1	Reversible	Ball	7.5MFD 370V	
3405	1/3	208-230	825	2.20	1	Reversible	Sleeve	7.5MFD 370V	
3730	1/2	208-230	1075	3.50	1	Reversible	Sleeve	10MFD 370V	1
3734	1/2	208-230	1075	3.50	1	Reversible	Ball	10MFD 370V	
3731	3/4	208-230	1075	4.70	1	Reversible	Sleeve	15MFD 370V	
3735	3/4	208-230	1075	4.70	1	Reversible	Ball	15MFD 370V	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Bearings	Cap. Required	Notes
<b>genteq - Shaft Up or Horizontal Application</b>									
3327	1/6	208-230	1075	0.90	1	Reversible	Sleeve	7.5MFD 370V	1, 3, 6
3328	1/4	208-230	1075	1.80	1	Reversible	Sleeve	5MFD 370V	1, 3
3329	1/3	208-230	1075	2.40	1	Reversible	Sleeve	7.5MFD 370V	1, 3, 6
3330	1/2	208-230	1075	3.60	1	Reversible	Sleeve	10MFD 370V	1, 3, 6
3331	3/4	208-230	1075	5.10	1	Reversible	Sleeve	10MFD 370V	3, 6

#### Notes:

1. Designed for 60°C ambient
2. Designed for 65°C ambient
3. Opposite shaft-end endshield is open
4. TENV construction
5. Designed for 50 or 60 Hertz operation
6. 6" shaft extension with two flats 90° apart



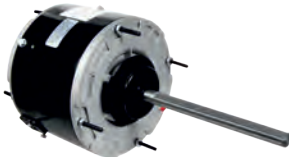
## GOOD PRACTICE

When replacing a condenser fan motor, it is always a good idea to check the fan blade. If a fan blade replacement is needed, make sure your technicians supply you with the maximum horsepower to help find the right replacement.

See our line of Revcor fan blades starting on page 237.



## Permanent Split Capacitor Condenser Fan Motors



### Features

- Permanent split capacitor
- Single speed
- Reversible rotation
- Totally enclosed
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase
- Rheem Mounting

**!** Bracket available for Trane applications See page 267



Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces	Notes
<b>Packard</b>										
80825	1/8	208-230	825	1.00	1/2 x 6 1/2	3 7/8	Ball	5MFD/370V	Emerson 1872	126
43727B	1/6	208-230	1075	1.0-1.1	1/2 x 6 1/2	3 7/8	Ball	5MFD/370V	Emerson 1859	126
60825	1/6	208-230	825	1.0-1.1	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	Emerson 1873	126
40825	1/4	208-230	825	1.3-1.4	1/2 x 6 1/2	4 5/8	Ball	5MFD/370V	Emerson 1874	126
43732	1/4	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	Emerson 1860 & 1876	126
30825	1/3	208-230	825	1.6-1.8	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V	Emerson 1875	126
43733	1/3	208-230	1075	2.2-2.5	1/2 x 6 1/2	4 5/8	Ball	7.5MFD/370V	Emerson 1861 & 1877	126
43734	1/2	208-230	1075	3.0-3.5	1/2 x 6 1/2	5 1/8	Ball	10MFD/370V	Emerson 1862 & 1878	126
43735	3/4	208-230	1075	4.6-5.3	1/2 x 6 1/2	5 3/8	Ball	10MFD/370V	Emerson 1868 & 1879	126
<b>Century</b>										
FSE1016SV1	1/6	208-230	1075	0.90	1/2 x 6 1/2	4	Sleeve	5MFD/370V		189, 422
FSE1026SV1	1/4	208-230	1075	2.00	1/2 x 6 1/2	4 3/8	Sleeve	5MFD/370V		189, 422
FE1026SC	1/4	208-230	1075	1.30	1/2 x 6	4 5/8	Ball	5MFD/370V		189, 246
FSE1036SV1	1/3	208-230	1075	1.80	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V		189, 422
FE1036SC	1/3	208-230	1075	1.80	1/2 x 6	5 1/4	Ball	7.5MFD/370V		189
FSE1056SV1	1/2	208-230	1075	2.80	1/2 x 6 1/2	5 3/8	Sleeve	10MFD/370V		189, 422
FE1056SC	1/2	208-230	1075	2.80	1/2 x 6	5 5/8	Ball	10MFD/370V		189
FSE1076SV1	3/4	208-230	1075	4.20	1/2 x 6 1/2	5 5/8	Sleeve	15MFD/370V		189, 422
<b>Fasco</b>										
D799	1/8	208-230	825	0.90	1/2 x 6	4	Sleeve	5MFD/370V		126, 138, 208, 517
D919	1/8	208-230	1075	0.90	1/2 x 6 1/2	3 3/4	Sleeve	5MFD/370V		126, 135, 208, 517
D917	1/6	208-230	1075	1.00	1/2 x 6 1/2	3 3/4	Sleeve	5MFD/370V		126, 135, 208, 517
D794	1/5	208-230	825	1.30	1/2 x 6	4 1/3	Sleeve	5MFD/370V		126, 138, 208, 517
D906	1/5	208-230	1075	1.20	1/2 x 6 1/2	4	Sleeve	5MFD/370V		126, 135, 208, 517
D934	1/4	208-230	825	1.90	1/2 x 6	4 1/3	Sleeve	5MFD/370V		126, 138, 208, 517
D909	1/4	208-230	1075	1.80	1/2 x 6 1/2	4	Sleeve	5MFD/370V		126, 135, 208, 517
D7909	1/4	208-230	1075	1.80	1/2 x 6 1/2	4	Ball	5MFD/370V		126, 135, 208, 517
D936	1/3	208-230	825	2.00	1/2 x 6	5	Sleeve	7.5MFD/370V		138, 208, 517
D908	1/3	208-230	1075	2.40	1/2 x 6 1/2	4 1/2	Sleeve	7.5MFD/370V		126, 135, 208, 517
D7908	1/3	208-230	1075	2.60	1/2 x 6 1/2	4 1/2	Ball	7.5MFD/370V		126, 135, 208, 517
D7907	1/2	208-230	1075	3.70	1/2 x 6 1/2	5	Ball	10MFD/370V		135, 208, 517
D913	1/4	460	1075	1.10	1/2 x 6 3/8	4	Ball	5MFD/370V		135, 208, 517
D915	3/4-1/2	460	1075	2.5-1.6	5/8 x 4 1/2	5 1/3	Ball	15MFD/370V		145, 146, 208, 517

**Notes:**  
 126. 4 drilled and tapped holes in shell for Rheem applications  
 135. All angle mount bearings  
 138. All angle mount bearings. Use rain shield when necessary

145. Special wiring configuration. Cannot be used with SPDT switching.  
 146. Keyed Shaft  
 189. Reversing plug  
 208. 60°C ambient

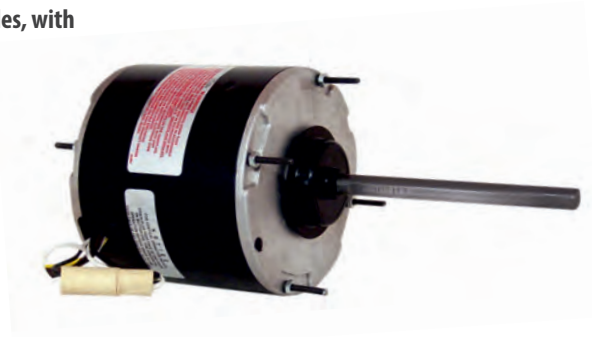
246. No hubs on either end  
 422. 1/2" hub on shaft end frame with slinger. Grommet on lead exits.  
 517. Electrically reversible



## HeatMaster® Condenser Fan Motor

### Features

- 70°C (158°F) max ambient
- UL recognized Class F insulation
- High-temperature UL recognized overload protector
- Energy-efficient PSC design
- All-angle mount
- Mounts by belly band, adjustable extended thru-bolts, or Rheem mounting holes, with screws supplied
- Lead length 26 to 48 inch
- Water-resistant reversing plug
- Double sealed ball bearing, or dependable all-angle sleeve bearings
- 60 Hertz
- 48 Frame
- Class F insulation
- Totally enclosed
- Single speed
- Continuous duty, air over
- UL recognized



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces
<b>Century 825 RPM Sleeve Bearing</b>										
FSE1008SF	1/8	208-230	825	1.00	Reversible	1/2 x 6 1/2	4 1/4	Sleeve	5MFD/370V	Emerson 1872
FSE1018SF	1/6	208-230	825	1.10	Reversible	1/2 x 6 1/2	4 1/8	Sleeve	5MFD/370V	Emerson 1873 GE 3403
FSE1028SF	1/4	208-230	825	1.50	Reversible	1/2 x 6 1/2	4 5/8	Sleeve	5MFD/370V	Emerson 1874 GE 3404
FSE1038SF	1/3	208-230	825	2.10	Reversible	1/2 x 6 1/2	5 1/8	Sleeve	7.5MFD/370V	Emerson 1875 GE 3405
FSE1058SF	1/2	208-230	825	2.50	Reversible	1/2 x 6 1/2	5 5/8	Sleeve	10MFD/370V	Emerson 1870
<b>Century 825 RPM Ball Bearing</b>										
FE1008SF	1/8	208-230	825	1.00	Reversible	1/2 x 6 1/2	4 1/4	Ball	5MFD/370V	GE 3202
FE1018SF	1/6	208-230	825	1.10	Reversible	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	GE 3203
FE1028SF	1/4	208-230	825	1.50	Reversible	1/2 x 6 1/2	4 5/8	Ball	5MFD/370V	GE 3204
FE1038SF	1/3	208-230	825	2.10	Reversible	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V	GE 3205
FE1058SF	1/2	208-230	825	2.50	Reversible	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V	
<b>Century 1075 RPM Sleeve Bearing</b>										
FSE1016SF	1/6	208-230	1075	1.40	Reversible	1/2 x 6 1/2	4	Sleeve	5MFD/370V	Emerson 1859 GE 3727
FSE1026SF	1/4	208-230	1075	2.00	Reversible	1/2 x 6 1/2	4 3/8	Sleeve	5MFD/370V	Emerson 1860 GE 3728
FSE1036SF	1/3	208-230	1075	2.80	Reversible	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V	Emerson 1861 GE 3729
FSE1056SF	1/2	208-230	1075	4.00	Reversible	1/2 x 6 1/2	5 3/8	Sleeve	10MFD/370V	Emerson 1862 GE 3730
FSE1076SF	3/4	208-230	1075	5.10	Reversible	1/2 x 6 1/2	5 5/8	Sleeve	15MFD/370V	Emerson 1868 GE 3731
<b>Century 1075 RPM Ball Bearing</b>										
FE1016SF	1/6	208-230	1075	1.40	Reversible	1/2 x 6 1/2	4	Ball	5MFD/370V	
FE1026SF	1/4	208-230	1075	2.00	Reversible	1/2 x 6 1/2	4 3/8	Ball	5MFD/370V	Emerson 1876 GE 3732
FE1036SF	1/3	208-230	1075	2.80	Reversible	1/2 x 6 1/2	4 7/8	Ball	7.5MFD/370V	Emerson 1877 GE 3733
FE1056SF	1/2	208-230	1075	4.00	Reversible	1/2 x 6 1/2	5 3/8	Ball	10MFD/370V	Emerson 1878 GE 3734
FE1076SF	3/4	208-230	1075	5.10	Reversible	1/2 x 6 1/2	5 5/8	Ball	15MFD/370V	Emerson 1879 GE 3735

## Vulcan High Temperature Outdoor Condenser Fan Motors



**70° Max Ambient Temp**



### Features

- Class F Insulation
- 70°C Ambient
- Ball Bearing
- Single Speed
- Drilled and tapped holes in the shell for Rheem mounting
- Reversible
- All Angle Mounting
- Extended Thru Bolts
- 36" Leads
- Energy Efficient PSC Design
- UL Recognized

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces
<b>Packard</b>									
60825F	1/6	208-230	825	1.0-1.1	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	20403, Rheem 51-20760-11 US Motors 1873H
40825F	1/4	208-230	825	1.3-1.4	1/2 x 6 1/2	4 5/8	Ball	5MFD/370V	20404, Rheem 51-23054-13 US Motors 1874H
30825F	1/3	208-230	825	1.6-1.8	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V	20405, Rheem 51-21853-83, US Motors 1875H
43727BF	1/6	208-230	1075	1.0-1.1	1/2 x 6 1/2	3 7/8	Ball	5MFD/370V	20727, Rheem 51-21854-17, US Motors 1859H
43732F	1/4	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	20728, Rheem 51-23054-11, US Motors 1860H
43733F	1/3	208-230	1075	2.2-2.5	1/2 x 6 1/2	4 5/8	Ball	7.5MFD/370V	20729, Rheem 51-21583-21, US Motors 1861H
43737F	1/3	460	1075	1.3	1/2 x 6 1/2	5 1/4	Ball	7.5MFD/370V	US Motors 3737H
43734F	1/2	208-230	1075	3.0-3.5	1/2 x 6 1/2	5 1/8	Ball	10MFD/370V	20730, US Motors 1862H
43738F	1/2	460	1075	1.5	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V	US Motors 3738H
43735F	3/4	208-230	1075	4.6-5.3	1/2 x 6 1/2	5 3/8	Ball	10MFD/370V	20731, US Motors 1868H

## Vulcan High Temperature Multi-Horsepower Condenser Fan Motors



**70° Max Ambient Temp**



### Features

Replaces Rheem and Hundreds of Other Condenser Motors!

- Permanent split capacitor
- UL recognized
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- Ball bearings
- Electrically reversible
- All angle mounting
- Automatic overload
- 70°C Ambient

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Frame	Bearings	Capacitor Required	Rotation
<b>Packard</b>										
45488BF	1/3-1/4-1/5-1/6	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	48	Ball	7.5MFD 370V	Reversible
45488BF	1/4-1/5-1/6-1/8	208-230	825	1.8-2.0	1/2 x 6 1/2	4 1/8	48	Ball	7.5MFD 370V	Reversible

## 5 5/8 Inch Diameter Multi-Horsepower Condenser Fan Motors



### Features

Replaces Rheem and Hundreds of Other Condenser Motors!

- Permanent split capacitor
- UL recognized
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- Ball bearings
- Electrically reversible
- All angle mounting
- Automatic overload

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Cap. Required		Replaces
<b>Packard</b>										
45488B	1/4-1/5-1/6-1/8	208-230	825	1.8-2.0	1/2 x 6 1/2	4 1/8	Ball	7.5MFD 370V	Emerson 5464	Rheem 51-20760-11 Rheem 51-21276-01 Rheem 51-23054-13 Rheem 51-23055-12
45458B	1/3-1/4-1/5-1/6	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	Ball	7.5MFD 370V	Emerson 5458 Emerson 5462	Rheem 51-20354-11 Rheem 51-20668-11 Rheem 51-23053-11 Rheem 51-23055-11

## MasterFit® Pro Outdoor Condenser Fan Motors



### Features

- All purpose, multi-rating
- Permanent split capacitor
- Extended thru bolts
- Rheem mounting holes in shells
- 4 end frame mounting holes for Trane
- Class F insulation
- Energy efficient
- Ball bearing
- Reversible
- Totally enclosed
- 60 Hertz
- 70°C ambient
- 2 Speed

Item ID	H.P.	Volts	RPM	Amps	Speed to Use	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Frame	Capacitor @ 208V	Capacitor @ 230V	Replaces
<b>Century</b>												
FE6001F	1/3	208-230	825	1.90	High	Reversible	1/2 x 6 1/2	5 1/4	48Y	10MFD/370V	7.5MFD/370V	Emerson 5464
	1/4			1.50	High							
	1/5			1.20	Low							
	1/6			1.00	Low							
FE6000F	1/3	208-230	1075	2.60	High	Reversible	1/2 x 6 1/2	4 7/8	48Y	7.5MFD/370V	5MFD/370V	Emerson 5462
	1/4			2.50	High							
	1/5			2.00	Low							
	1/6			1.80	Low							
FE6002F	1/2	208-230	1075	3.90	High	Reversible	1/2 x 6 1/2	5 3/8	48Y	12.5MFD/370V	10MFD/370V	Emerson 5465
	1/3			2.20	High							
	1/4			1.60	Low							
	1/5			1.30	Low							

## genteq Life-Line Multi-Horsepower Motors

### Applications

- Designed for condenser fan and heat pump units requiring vertical shaft up or vertical shaft down positioning with “belly band” or extended clamp screw mounting.

### Features

- Ball bearings
- Water slinger on shaft
- Class B insulation
- Single phase
- Automatic overload
- Permanent split capacitor
- Designed for 370 Volt capacitor, not included
- Different capacitor/speed combinations to fit various HP applications
- Holes in motor shell for mounting brackets
- Extended clambolts or studs for mounting



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base
<b>genteq</b>									
3465	1/3-1/6	208-230	1075	2.60	2	Reversible	PSC	Ball	NB
3458	1/3-1/6	208-230	1075	2.80	1	Reversible	PSC	Ball	NB
3469	1/3-1/6	208-230	825	1.90	2	Reversible	PSC	Ball	NB
3459	1/3-1/8	208-230	825	2.40	1	Reversible	PSC	Ball	NB
3468	1/2-1/5	208-230	1075	3.00	2	Reversible	PSC	Ball	NB

### Applications

- Designed for continuous air over applications, such as direct drive residential, commercial and industrial air conditioners, fan and blowers.

### Features

- Permanent split capacitor
- Ball and sleeve bearings
- Class B insulation
- Single phase
- Automatic overload
- Different capacitor/speed combinations to fit various HP applications
- Holes in motor shell for mounting brackets
- Mounts and accessories can be found on pages 265-270



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base
<b>genteq - Shaft Up or Horizontal Application</b>									
3463	1/2-1/6	115	1075	6.20	4	Reversible	PSC	Sleeve	2RR
3464	1/2-1/6	208-230	1075	2.70	4	Reversible	PSC	Sleeve	2RR
3466	3/4-1/5	115	1075	8.40	4	Reversible	PSC	Ball	2RR
3467	3/4-1/5	208-230	1075	4.20	4	Reversible	PSC	Ball	2RR

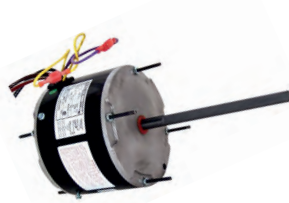
### Capacitor/Speed Selection Guide

Item ID	H.P.	Speeds to Use	Capacitor @ 208V	Capacitor @ 230V	Amps
3465	1/3	Hi	7.5/370	5/370	2.60
	1/4	Hi	7.5/370	5/370	2.50
	1/5	Lo	7.5/370	5/370	2.00
	1/6	Lo	7.5/370	5/370	1.80
3458	1/3	Hi	7.5/370	7.5/370	2.80
	1/4	Hi	7.5/370	7.5/370	2.80
	1/5	Hi	7.5/370	7.5/370	2.80
	1/6	Hi	7.5/370	7.5/370	2.80
3469	1/3	Hi	10/370	7.5/370	1.90
	1/4	Hi	10/370	7.5/370	1.50
	1/5	Lo	10/370	7.5/370	1.20
	1/6	Lo	10/370	7.5/370	1.00
3459	1/3	Hi	12.5/370	12.5/370	2.40
	1/4	Hi	12.5/370	12.5/370	2.40
	1/5	Hi	12.5/370	12.5/370	2.40
	1/6	Hi	12.5/370	12.5/370	2.40
3468	1/2	Hi	12.5/370	10/370	3.00
	1/3	Hi	12.5/370	10/370	2.20
	1/4	Lo	12.5/370	10/370	1.60
	1/5	Lo	12.5/370	10/370	1.30

Item ID	H.P.	Capacitor	Speeds to Use	Amps
3463	1/2	10/370	All Speeds	6.20
	1/3	5/370 or 7.5/370*	All Speeds	6.10
	1/4	5/370 or 7.5/370*	Med-Hi or Med-Lo:Lo	4.40
	1/5	5/370 or 7.5/370*	Med-Lo:Lo	3.20
	1/6	5/370 or 7.5/370*	Lo	2.40
3464	1/2	10/370	All Speeds	2.70
	1/3	5/370 or 7.5/370*	All Speeds	2.60
	1/4	5/370 or 7.5/370*	Med-Hi or Med-Lo:Lo	1.90
	1/5	5/370 or 7.5/370*	Med-Lo:Lo	1.40
3466	1/6	5/370 or 7.5/370*	Lo	1.10
	3/4	20/370	All Speeds	8.40
	1/2	10/370	All Speeds	7.50
	1/3	10/370	Med-Hi or Med-Lo:Lo	4.20
	1/4	10/370	Med-Lo:Lo	3.20
3467	1/5	10/370	Lo	2.60
	3/4	20/370	All Speeds	4.20
	1/2	10/370	All Speeds	3.80
	1/3	10/370	Med-Hi or Med-Lo:Lo	2.30
	1/4	10/370	Med-Lo:Lo	1.90
1/5	10/370	Lo	1.50	

\* Using a 7.5 MFD/370V capacitor will result in approximately 10% stronger motor.

## 4-in-1® Fan Motors (Economy Models) - 60°C Ambient



### Features

- Class B insulation
- Energy-efficient PSC design
- Reversing connectors
- Durable ball bearings or dependable all-angle sleeve bearings
- Mounts by belly band, adjustable extended thru-bolts or Rheem mounting holes with supplied screws
- All-angle mount
- Lead length 36 inch to 48 inch
- Single speed
- Totally enclosed
- Continuous duty, air over
- UL recognized
- 48 Frame
- 60 Hertz
- 60°C ambient

Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces	
<b>Century</b>										
ORM5488	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V	Emerson 5457 Rheem 51-23055-12	Rheem 51-23054-13 Rheem 51-20760-11
ORM5488B	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	Ball	7.5MFD/370V	Rheem 51-20761-11	
ORM5458	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	Sleeve	7.5MFD/370V	Emerson 5458 Rheem 51-41465-01	Rheem 51-23055-11 Rheem 51-20668-11
ORM5458B	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	Ball	7.5MFD/370V	Rheem 51-20672-01 Rheem 51-20668-11	Rheem 51-23053-11 Rheem 51-23055-11

## 4-in-1® HeatMaster® Fan Motors (Deluxe Models) - 70°C Ambient



### Features

- Energy-efficient PSC design
- Reversing connectors
- Water-resistant reversing plug
- Double sealed ball bearings or dependable all-angle sleeve bearings
- Mounts by belly band, adjustable extended thru-bolts or Rheem mounting holes with supplied screws
- All-angle mount
- Lead length 36 inch to 48 inch
- Single speed
- Totally enclosed
- Continuous duty, air over
- UL recognized
- 48 Frame
- Class F insulation
- 60 Hertz
- 70°C ambient
- High-temperature UL approved overload protector

Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces	
<b>Century</b>										
ORM5484F	1/8-1/15	208-230	825	0.80	1/2 x 6 1/2	4 1/4	Sleeve	5MFD/370V	Emerson 5456 Rheem 51-20761-01	Trane MOT6314
ORM5484BF	1/8-1/15	208-230	825	0.80	1/2 x 6 1/2	4 1/4	Ball	5MFD/370V	Rheem 51-20760-01 Trane MOT6314	
ORM5454F	1/8-1/15	208-230	1075	0.80	1/2 x 6 1/2	4	Sleeve	5MFD/370V	Emerson 5459	
ORM5454BF	1/8-1/15	208-230	1075	0.80	1/2 x 6 1/2	4	Ball	5MFD/370V		
ORM5488F	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V	Emerson 1875H	Marathon X072
ORM5458F	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	Sleeve	7.5MFD/370V	Emerson 1860H	
ORM5488BF	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	Ball	7.5MFD/370V		
ORM5489BF	1/2-1/5	208-230	825	2.50	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V		
ORM4688BF	1/3-1/8	460	825	1.00	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V		
ORM5458BF	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	Ball	7.5MFD/370V	Emerson 5458H	
ORM5459BF	1/2-1/5	208-230	1075	3.60	1/2 x 6 1/2	5 3/8	Ball	10MFD/370V		
ORM4658BF	1/3-1/6	460	1075	1.20	1/2 x 6 1/2	4 7/8	Ball	7.5MFD/370V	Emerson 3736H	Rheem 51-23063-11
ORM4659BF	1/2-1/5	460	1075	1.50	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V		



## 4-in-1® HeatMaster® Ultra Multi-horsepower Replacement Motors- 80°C Ambient



**Features**

- 80°C (176°F) max ambient
- Double sealed ball bearings with high temperature synthetic grease
- Energy-efficient PSC design
- Mounts by belly band, adjustable extended thru-bolts, or Rheem/Trane mounting holes, with screws supplied
- Works with Johnson Controls Speed controls

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required
<b>Century</b>									
ORM5488BU	1/3-1/8	208-230	825	1.8	1/2 x 6 1/2	4.86	PSC	Double Sealed Ball	7.5MFD/370V
ORM5458BU	1/3-1/6	208-230	1075	1.9	1/2 x 6 1/2	4.11	PSC	Double Sealed Ball	7.5MFD/370V

## HeatMaster® Ultra Condenser Fan Motors- 80°C Ambient



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required
<b>Century</b>									
FE1028SU	1/4	208-230	825	1.2	1/2 X 6.5	4.61	PSC	Double Sealed Ball	5MFD/370V
FE1038SU	1/3	208-230	825	1.6	1/2 X 6.5	5.11	PSC	Double Sealed Ball	7.5MFD/370V
FE1058SU	1/2	208-230	825	2.3	1/2 X 6.5	5.61	PSC	Double Sealed Ball	10MFD/370V
FE1026SU	1/4	208-230	1075	1.9	1/2 X 6.5	4.36	PSC	Double Sealed Ball	5MFD/370V
FE1036SU	1/3	208-230	1075	2.5	1/2 X 6.5	4.86	PSC	Double Sealed Ball	7.5MFD/370V
FE1056SU	1/2	208-230	1075	3.8	1/2 X 6.5	5.36	PSC	Double Sealed Ball	10MFD/370V
FE1076SU	3/4	208-230	1075	5.1	1/2 X 6.5	5.61	PSC	Double Sealed Ball	15MFD/370V
FEH1026SU	1/4	460	1075	0.9	1/2 X 6.5	4.74	PSC	Double Sealed Ball	7.5MFD/370V
FEH1036SU	1/3	460	1075	1.2	1/2 X 6.5	5.24	PSC	Double Sealed Ball	7.5MFD/370V
FEH1056SU	1/2	460	1075	1.5	1/2 X 6.5	5.61	PSC	Double Sealed Ball	10MFD/370V

**Don't Forget!**

**TR001**  
See page 267

**A60048**  
See page 266

**1410A**  
See page 266

**REMEMBER:** REPLACE THE MOTOR, REPLACE THE CAPACITOR.



**TITAN HD**  
Professional Grade  
Motor Run Capacitors  
Page: 216-217

**TITAN PRO**  
Professional Grade  
Motor Run Capacitors  
Page: 218-219



## 5 5/8 Inch Diameter Multi-Horsepower Direct Drive Blower Motors

### Features

- Permanent split capacitor
- Multiple capacitor/speed combinations
- Continuous duty, air over
- Mounting rings, thru bolts and holes in shell
- Class B insulation
- Reversible rotation
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase
- 5 Speed



Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Bearings	ENCL.	Replaces
<b>Packard</b>									
45460*	1/2-1/3-1/4-1/5-1/6	115	1075	5.80-5.10-3.50-3.20-2.20	Reversible	PSC	Sleeve	Open	Emerson 5460 Rheem 51-23012-41
45461*	1/2-1/3-1/4-1/5-1/6	208-230	1075	2.90-2.50-1.80-1.40-1.30	Reversible	PSC	Sleeve	Open	Emerson 5461 Rheem 51-23022-41
45470*	3/4-1/2-1/3-1/4-1/5	115	1075	9.10-6.50-5.50-4.00-2.30	Reversible	PSC	Ball	Open	Emerson 5470 Rheem 51-23017-41
45471*	3/4-1/2-1/3-1/4-1/5	208-230	1075	4.60-3.30-3.40-2.30-1.70	Reversible	PSC	Ball	Open	Emerson 5471 Rheem 51-21898-01



Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Bearings	ENCL.	Replaces
<b>Century</b>									
FDL6001*	1/2, 1/3, 1/4, 1/5, 1/6	115	1075	7.00, 6.70, 4.40, 3.20, 2.40	Reversible	PSC	Sleeve	Open	Emerson 5460 Rheem 51-23012-41
FD6000*	1/2, 1/3, 1/4, 1/5, 1/6	208-230	1075	3.90, 3.60, 2.50, 1.80, 1.30	Reversible	PSC	Sleeve	Open	Emerson 5461 Rheem 51-23022-41
7FD6000A*	1/2, 1/3, 1/4, 1/5, 1/6	277	1075	3.30, 2.30, 1.70, 1.30, 1.00	Reversible	PSC	Sleeve	Open	—
FDL6002*	3/4, 1/2, 1/3, 1/4, 1/5	115	1075	9.10, 6.60, 5.50, 3.00, 2.30	Reversible	PSC	Ball	Open	Emerson 5470
FD6001*	3/4, 1/2, 1/3, 1/4, 1/5	208-230	1075	3.90, 3.60, 3.00, 2.30, 2.00	Reversible	PSC	Ball	Open	Emerson 5471
7FD6001A*	3/4, 1/2, 1/3, 1/4, 1/5	277	1075	3.60, 2.30, 1.70, 1.30, 1.00	Reversible	PSC	Ball	Open	—

\*Capacitor Required: HP 3/4 and 1/2 - 10MFD 370V | HP 1/3, 1/4, 1/5, 1/6 - 7.5MFD 370V

## 5 5/8 Inch Diameter Direct Drive Blower Motors



### Features

- Permanent split capacitor
- Continuous air over
- 2 1/2 inch mounting rings
- Class B insulation
- 40°C ambient
- Electrically reversible
- Open enclosure
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces
<b>Packard</b>										
43581	1/6-1/8-1/10	115	1075	2.50	3	1/2 x 5 1/2	4	Sleeve	5MFD/370V	GE 3581 Emerson 8891
43582	1/6-1/8-1/10	208-230	1075	1.40	3	1/2 x 7	4	Sleeve	5MFD/370V	GE 3582 Emerson 8896
43583	1/4-1/6-1/8	115	1075	4.40	3	1/2 x 4 1/2	4	Sleeve	5MFD/370V	GE 3583 Emerson 1863
43584	1/4-1/6-1/8	208-230	1075	1.70	3	1/2 x 4 1/2	4	Sleeve	5MFD/370V	GE 3584 Emerson 1971
43585	1/3-1/4-1/6	115	1075	6.00	3	1/2 x 4 1/2	4 1/4	Sleeve	5MFD/370V	GE 3585 Emerson 1864
43586	1/3-1/4-1/6	208-230	1075	2.60	3	1/2 x 4 1/2	4 1/4	Sleeve	5MFD/370V	GE 3586 Emerson 1972
43587	1/2-1/3-1/4	115	1075	7.80	3	1/2 x 4 1/2	5 1/8	Sleeve	5MFD/370V	GE 3587 Emerson 1865
43588	1/2-1/3-1/4	208-230	1075	3.60	3	1/2 x 4 1/2	5 1/8	Sleeve	5MFD/370V	GE 3588 Emerson 1973
43589	3/4-1/2-1/3	115	1075	10.50	3	1/2 x 4 1/2	5 1/8	Sleeve	15MFD/370V	GE 3589 Emerson 8904
43590	3/4-1/2-1/3	208-230	1075	4.60	3	1/2 x 4 1/2	5 1/8	Sleeve	10MFD/370V	GE 3590 Emerson 8905
43595	1	115	1075	9.70	3	1/2 x 6 1/2	5 7/8	Ball	20MFD/370V	GE 3595 Emerson 8906
43596	1	208-230	1075	4.4-5.4	3	1/2 x 6 1/2	5 7/8	Ball	20MFD/370V	GE3596 Emerson 8907

# MOTORS | Direct Drive Blower Motors

## 5 5/8 Inch Diameter Direct Drive Blower Motors

### Features

- Permanent split capacitor
- Class B insulation
- Open enclosure
- 60 Hertz
- Continuous air over
- 40°C ambient
- Automatic overload
- Single phase
- 2 1/2 inch mounting rings
- Electrically reversible
- 48 Frame



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Req.	Notes
<b>Fasco</b>										
D721	1/4-1/5-1/6	115	1075	4.80	3	1/2 x 6	4	Sleeve	15MFD/370V	138, 148
D725	1/4-1/6-1/8	208/230	1075	2.20	3	1/2 x 6	4	Sleeve	15MFD/370V	138, 148
D727	1/3-1/4-1/5	115	1075	5.90	3	1/2 x 6	4 1/4	Sleeve	5MFD/370V	138, 148
D923	1/3-1/4-1/5	208-230	1075	2.90	3	1/2 x 6	4 1/4	Sleeve	5MFD/370V	138, 148
D701	1/2-1/3-1/4-1/5	115	1075	7.70	4	1/2 x 5 1/2	5 1/4	Sleeve	10MFD/370V	138, 148
D703	1/2-1/3-1/4	208-230	1075	4.00	3	1/2 x 6	5	Sleeve	7.5MFD/370V	138, 148
D974	1/2-1/3-1/4	277	825	2.3-1.6-1.3	3	1/2 x 5	5 1/3	Sleeve	15MFD/370V	138, 148
D728	3/4-1/2-1/3	115	1075	10.50	3	1/2 x 6	5 1/2	Sleeve	10MFD/370V	138, 148
D729	3/4-1/2-1/3	208-230	1075	5.40	3	1/2 x 6	5 1/2	Sleeve	10MFD/370V	138, 148



Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Capacitor Req.	Notes
<b>Century</b>										
DL1026	1/4	115	1075	3.50	3	1/2 x 4 1/2	4 1/8	Sleeve	5MFD/370V	
D1026	1/4	208-230	1075	1.80	3	1/2 x 4 1/2	4 1/8	Sleeve	5MFD/370V	
DL1036	1/3	115	1075	4.90	3	1/2 x 4 1/2	4 1/2	Sleeve	7.5MFD/370V	
D1036AO	1/3	208-230	1075	2.60	3	1/2 x 4 1/2	4 3/8	Sleeve	5MFD/370V	
DL1056	1/2	115	1075	6.50	3	1/2 x 4 1/2	5	Sleeve	10MFD/370V	
D1056AO	1/2	208-230	1075	3.20	3	1/2 x 4 1/2	4 7/8	Sleeve	7.5MFD/370V	
DL1076	3/4	115	1075	8.90	3	1/2 x 4 1/2	5 5/8	Sleeve	15MFD/370V	264
D1076	3/4	208-230	1075	4.00	3	1/2 x 4 1/2	5 5/8	Sleeve	10MFD/370V	
BDL1106	1	115	1075	12.30	3	1/2 x 6	6	Ball	20MFD/370V	
BD1106	1	208-230	1075	5.10	3	1/2 x 6 1/2	5 5/8	Ball	20MFD/370V	187, 424
BDH1106	1	460	1100	3.20	3	1/2 x 6 1/2	5 7/8	Ball	15MFD/370V	187, 308, 321

### Notes:

138. All angle mount bearings. Use rain shield when necessary  
148. Ideal for blowers and fans used in furnaces and air-conditioners

187. Resilient mounting rings included  
264. 50°C ambient  
308. Reconnect for separate speeds

321. No extended thru bolts  
424. 1/2" double flat shaft, 2 1/2" rings

## 5 5/8 Inch Diameter Torsion Flex Direct Drive Blower Motors

### Features

- Permanent split capacitor
- Electrically reversible
- Single phase
- Continuous air over
- Automatic overload
- 48 Frame
- Energy efficient
- Open enclosure
- 60 Hertz



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required	Replaces
<b>Packard</b>												
43782	1/6	115	1075	2.50	3	Reversible	1/2 x 5	4	PSC	Sleeve	5MFD/370V	3782
43783	1/4	115	1075	3.60	4	Reversible	1/2 x 6	4	PSC	Sleeve	5MFD/370V	3783
43784	1/4	208-230	1075	1.80-2.00	4	Reversible	1/2 x 6	4	PSC	Sleeve	5MFD/370V	3784
43785	1/3	115	1075	4.80	4	Reversible	1/2 x 6	4 1/4	PSC	Sleeve	10MFD/370V	3785, 9377
43786	1/3	208-230	1075	2.30-2.60	4	Reversible	1/2 x 6	4 1/4	PSC	Sleeve	10MFD/370V	3786
43787	1/2	115	1075	8.00	4	Reversible	1/2 x 6	4 7/8	PSC	Sleeve	10MFD/370V	3787
43788	1/2	208-230	1075	3.30-4.00	4	Reversible	1/2 x 6	4 7/8	PSC	Sleeve	10MFD/370V	3788
43789	3/4	115	1075	9.00	3	Reversible	1/2 x 5	5.41	PSC	Sleeve	15MFD/370V	3789
43790	3/4	208-230	1075	4.50	3	Reversible	1/2 x 5	5.41	PSC	Sleeve	10MFD/370V	3790

## Two And Three Speed Direct Drive Blower Motors

### Applications

- Designed for continuous air over applications, such as furnace blowers or central air handling units with single shaft requirements.

### Features

- Reversible rotation
- Automatic overload
- Single phase
- 5 1/2 inch diameter
- Permanent split capacitor
- Standard efficiency designs
- 4 inch shaft extension
- Extended thru bolts on shaft end with a mounting ring kit provided
- Ring kit allows both 2 1/4 inch and 2 1/2 inch resilient ring mounting
- Mounting holes in shell for capacitor bracket
- Designed for 370 Volt capacitor, not included.



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Capacitor Required
<b>genteq</b>									
3383	1/4	115	1075	4.20	2	Reversible	PSC	Sleeve	5MFD 370V
3583	1/4	115	1075	4.20	3	Reversible	PSC	Sleeve	5MFD 370V
3384	1/4	208-230	1075	2.00	2	Reversible	PSC	Sleeve	5MFD 370V
3584	1/4	208-230	1075	2.00	3	Reversible	PSC	Sleeve	5MFD 370V
3385	1/3	115	1075	6.20	2	Reversible	PSC	Sleeve	7.5MFD 370V
3585	1/3	115	1075	6.10	3	Reversible	PSC	Sleeve	7.5MFD 370V
3386	1/3	208-230	1075	2.90	2	Reversible	PSC	Sleeve	5MFD 370V
3586	1/3	208-230	1075	2.70	3	Reversible	PSC	Sleeve	5MFD 370V
3387	1/2	115	1075	9.00	2	Reversible	PSC	Sleeve	10MFD 370V
3587	1/2	115	1075	9.00	3	Reversible	PSC	Sleeve	10MFD 370V
3388	1/2	208-230	1075	4.30	2	Reversible	PSC	Sleeve	7.5MFD 370V
3588	1/2	208-230	1075	4.30	3	Reversible	PSC	Sleeve	7.5MFD 370V
3389	3/4	115	1075	10.30	2	Reversible	PSC	Sleeve	15MFD 370V
3589	3/4	115	1075	11.20	3	Reversible	PSC	Sleeve	15MFD 370V
3390	3/4	208-230	1075	5.20	2	Reversible	PSC	Sleeve	10MFD 370V
3590	3/4	208-230	1075	5.00	3	Reversible	PSC	Sleeve	10MFD 370V

## 460 Volt Two Speed Direct Drive Blower Motors

### Applications

- Designed for continuous air over applications, such as high voltage fan and blower systems.

### Features

- Energy Saver designs
- Ball bearings
- Extended thru bolts
- Designed for 50Hz or 60Hz operation
- Single phase
- 5 1/2 inch diameter
- Open enclosure
- Single shaft
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Capacitor Required	Type	Bearings
<b>genteq</b>									
3470	1/4	460	1625	0.80	2	Reversible	5MFD/370V	PSC	Ball
3280	1/3	460	1075	1.10	2	Reversible	5MFD/370V	PSC	Ball
3490	1/2	460	1625	1.70	2	Reversible	7.5MFD/370V	PSC	Ball
3290	3/4	460	1075	2.10	2	Reversible	10MFD/370V	PSC	Ball

## HeatMaster® Fan Canopy

### Features

- 70°C (158°F) max ambient
- UL recognized Class F insulation
- Energy-efficient PSC and three phase designs
- Patented fan canopy
- Vertical shaft up only
- Double sealed ball bearing
- Open, air over
- Reversible
- 60 Hertz
- Totally Enclosed
- Single Speed
- 48 Frame
- UL recognized



Item ID	H.P.	Volts	RPM	Amps @		Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Capacitor Required	Replaces	Notes
				230V	460V						
<b>Century Single Phase</b>											
FC1046F	0.4	200-230/460	1075	3.20	1.60	Reversible	1/2" Flat x 3 9/16	5 5/16	5MFD/370V	GE 03945	511
FC1066F	0.6	200-230/460	1075	4.00	2.00	Reversible	1/2" Flat x 3 9/16	6 15/16	7.5MFD/370V	GE 03946	511
FC1066AF	0.6	200-230/460	1075	4.00	2.00	Reversible	5/8" Flat & Key x 3 9/16	6 15/16	7.5MFD/370V	GE 03196	511
FC1086F	0.8	200-230/460	1075	4.60	2.30	Reversible	1/2" Flat x 3 9/16	8 13/16	20MFD/370V	GE 03197	352, 511
FC1086AF	0.8	200-230/460	1075	4.60	2.30	Reversible	5/8" Flat & Key x 3 9/16	8 13/16	20MFD/370V	GE 03198	511
FC1106F	1	200-230/460	1075	6.40	3.20	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	25MFD/370V	GE 03199	403, 511
FC1156F	1 1/2	200-230/460	1075	7.00	3.50	Reversible	5/8" Flat & Key x 4 1/16	10 1/6	25MFD/370V		403
<b>Century Three Phase</b>											
FC3056F	1/2	200-230/460	1140	3.00	1.50	Reversible	1/2" Flat x 3 9/16	6 15/16	—		GE K1403
FC3076F	3/4	200-230/460	1140	4.00	2.00	Reversible	5/8" Flat & Key x 4 1/16	9 1/16	—		GE K1404
FC3106F	1	200-230/460	1140	5.60	2.80	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	—		
FC3156F	1 1/2	200-230/460	1140	5.80	2.90	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	—		

### Notes:

352. Includes 5/8" adapter and key  
 403. All 1 HP and 1 1/2 HP Motor supplied with conversion kit allowing motor to be used in most 56 frame applications

511. Suitable for use with some solid state speed control devices

## 56 Frame Three Phase Commercial Condenser Fan Motors

### Features

- Class B moisture resistant insulation
- 5/8 inch diameter shaft with keyway and flat
- Double sealed ball bearings
- 1.0 service factor
- Automatic overload
- 60°C ambient
- Single speed
- 60 Hertz
- Three phase
- Air over



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Frame	Enclosure	Mounting	Notes
<b>Century</b>											
H567	3/4	460/200-230	1140	1.50/2.80-3.00	Reversible	5/8 x 6	10 3/8	56	Open Shaft End	Belly Band	
H686	1	460/200-230	850	2.00/4.40-4.00	Reversible	5/8 x 4 7/8	9 3/8	56	Open Shaft End	Belly Band	319
H667	1	460/200-230	1140	2.60/5.30-5.20	Reversible	5/8 x 6	10 7/8	56	Open Shaft End	Belly Band	
H767	1 1/2	460/200-230	1140	3.00/5.80-6.00	Reversible	5/8 X 6	10 7/8	56	Open Shaft End	Belly Band	407, 520

### Notes:

319. No keyway, double flat

407. 70°C ambient

520. 1.15 service factor



## JuggerNaut® Three Phase Inverter Duty Condenser Fan Motors

Removable 56H Base 70°C (158°F) Max Ambient



### Features

- Inverter duty
- 70°C (158°F) max ambient
- Class F moisture resistant insulation
- Automatic overload protector
- Large water slinger
- Double sealed ball bearings
- Lugs for belly-band mounting
- Shaft up mounting
- Quick connect design
- Energy-efficient three phase design
- Conductive bearing grease for inverter applications
- 50/60 Hertz
- Three phase
- Energy-efficient three phase design

Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Belly Band	Replaces Belly Band	Rigid Base
<b>Century</b>									
H1055A	1/2	460/200-230	1140	1.3/2.8-2.6	5/8 X 6	10.4			
H1056A	3/4	460/200-230	1140	1.5/2.8-3.0	5/8 X 6	10.5			
H1050A	1	460/208-230	1140	2.20/4.40-4.00	5/8 x 6	10 5/8	Marathon X502 Emerson 1818 G.E. K379 Fasco D6608	Leeson 111147 Baldor CFM3156A Mars 3189	Marathon X513 Emerson 1820 G.E. K1485 Leeson 115778
H1051A	1 1/2	460/208-230	1140	2.90/5.80-5.80	5/8 x 6	11 5/8	Marathon X503 Emerson 1819 G.E. K380 Fasco D6610	Leeson 111148 Baldor CFM3166A Mars 3190	Marathon X523 Emerson 1821 G.E. K1486 Leeson 115779
H1052A	2	460/208-230	1140	3.70/7.40-7.00	5/8 x 6	12 5/8	Marathon X509	Emerson 8987	Marathon X525 Emerson 1822
H1053A	1	460/208-230	850	2.60/5.20-5.00	5/8 x 6	12 5/8	Marathon X507 Emerson 1828	G.E. K1482 Mars 1482	Marathon X528
H1054	1 1/2	460/208-230	850	3.60/6.70-7.20	5/8 x 6	13 1/8	Marathon X530		Marathon X531

**Note:** It is the responsibility of the installer to properly adjust the drive to the motor for the specific application. The correct volts/Hz settings are application specific and unique to each motor. Failure to perform proper set up can lead to substandard performance and/or premature failure of the system components. All other replacements are not inverter duty.

## Rigid 56H Base 70°C (158°F) Max Ambient

### Features

- Inverter duty
- 70°C (158°F) max ambient
- Class F moisture resistant insulation
- Automatic overload protector
- Large water slinger
- Double sealed ball bearings
- Shaft up mounting
- Quick connect design
- Energy-efficient three phase design
- Conductive bearing grease for inverter applications
- 50/60 Hertz
- Three phase
- Energy-efficient three phase design



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)
<b>Century</b>						
H1050RB	1	460/208-230	1140	2.20/4.40-4.00	5/8 x 6	10.3
H1051RB	1 1/2	460/208-230	1140	2.90/5.80-5.80	5/8 x 6	11.3
H1052RB	2	460/208-230	1140	3.70/7.40-7.00	5/8 x 6	12.3
H1053RB	1	460/208-230	850	2.60/5.20-5.00	5/8 x 6	12.3
H1054RB	1 1/2	460/208-230	850	3.60/6.70-7.20	5/8 x 6	12.3

**Note:** It is the responsibility of the installer to properly adjust the drive to the motor for the specific application. The correct volts/Hz settings are application specific and unique to each motor. Failure to perform proper set up can lead to substandard performance and/or premature failure of the system components. All other replacements are not inverter duty.



## Evaporative Cooler Motors

### Applications

- Belt driven evaporative coolers

### Features

- Brass current carrying terminal board parts
- Class B insulation
- Continuous oil filtration
- Electro-zinc plated governor parts, dust caps, terminal board cover
- Heavy magnet wire insulation
- High viscosity encapsulating varnish
- Moisture resistance terminal board
- No ventilation openings in the top portion of the frame
- 7 1/2" ring to ring dimension (Split Phase)
- 60 Hertz
- Automatic overload
- NEMA 56Z Frame
- 1.0 Service Factor



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure
<b>Century Split Phase</b>											
<b>VB2034</b>	1/3	115	1725	6.50	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>SVB2034</b>	1/3-1/10	115	1725/1140	6.50/3.60	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>VB2054</b>	1/2	115	1725	7.80	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>SVB2054</b>	1/2-1/6	115	1725/1140	8.50/4.10	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>SVB2054H</b>	1/2-1/6	230	1725/1140	4.40	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>VB2074</b>	3/4	115	1725	10.60	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>SVB2074</b>	3/4-1/4	115	1725/1140	10.50/5.00	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>SVB2074H</b>	3/4-1/4	230	1725/1140	5.60/2.80	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
<b>Century Capacitor Start</b>											
<b>SV2104L</b>	1-1/3	115	1725/1140	12.70/7.60	1	CCWLE	1/2 X 1 5/8	12.1	Capacitor Start	Sleeve	Open
<b>SV2104HL</b>	1-1/3	230	1725/1140	6.40/3.90	2	CCWLE	1/2 X 1 5/8	12.1	Capacitor Start	Sleeve	Open

## 48/56 Frame, Split Phase Belt Drive Fan And Blower Motors

### Applications

- Centrifugal pumps, belt drive furnace blowers, fans

### Features

- 40°C ambient
- Continuous duty
- 5/8 inch shaft adapter and key included
- Resilient base has 48 and 56 Frame mounting holes
- Full Service Factor ratings
- Class B insulation
- Electrically reversible
- Open drip proof enclosure
- 5 5/8 inch diameter
- Split phase
- Automatic overload
- 60 Hertz
- Single speed



Item ID	H.P.	Volts	RPM	Amps	Rotation	Service Factor	Shaft Dim. (In.)	Length Less Shaft (In.)	Frame	Bearings	Replaces
<b>Packard - Single Voltage</b>											
<b>45014</b>	1/4	115	1725	4.80	Rev.	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	Emerson 8000 GE 4701 Marathon B206
<b>45013</b>	1/3	115	1725	6.60	Rev.	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	Emerson 8100 GE 4706 Marathon B207
<b>45012</b>	1/2	115	1725	8.30	Rev.	1.25	1/2 x 1 7/8	7 3/4	48/56	Sleeve	Emerson 8200 GE 4708 Marathon B208
<b>Packard - Dual Voltage</b>											
<b>45014D</b>	1/4	115/208-230	1725	4.60/2.20-2.10	Rev.	1.30	1/2 x 1 7/8	6.75	48/56	Ball	Marathon B303
<b>45013D</b>	1/3	115/208-230	1725	6.60/3.40-3.10	Rev.	1.35	1/2 x 1 7/8	6.75	48/56	Ball	Marathon B305
<b>45012D</b>	1/2	115/208-230	1725	7.60/3.70-3.80	Rev.	1.25	1/2 x 1 7/8	8.58	48/56	Ball	Marathon B307
<b>45230D</b>	3/4	115/208-230	1725	11.60/5.90-5.80	Rev.	1.25	5/8 x 1 7/8	10.55	56H	Ball	Marathon 56S17D2060

## Split Phase Resilient Base Motors

### Features

- Continuous duty
- Resilient base mounting
- Reversible rotation
- 40°C ambient
- Open and open drip proof enclosure
- Automatic overload
- Split phase
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Dia. (In.)	Frame	Notes
<b>Century Single Voltage</b>												
GF2014	1/6	115	1725	4.90	1.35	1/2 x 1 5/8	7.30	Sleeve	Open	5 5/8	48/56	3, 266
GF2024	1/4	115	1725	5.40	1.35	1/2 x 1 5/8	7.50	Sleeve	Open Drip Proof	5 5/8	48/56	3, 266
GF2034	1/3	115	1725	6.80	1.35	1/2 x 1 5/8	7.80	Sleeve	Open	5 5/8	48/56	3, 266
GF2054	1/2	115	1725	8.00	1.25	1/2 x 1 5/8	8.30	Sleeve	Open Drip Proof	5 5/8	48/56	3, 266
GK2074	3/4	115	1725	12.20	1.25	5/8 x 1 7/8	8.80	Sleeve	Open	6 1/2	56	
<b>Century Dual Voltage</b>												
GF2024D	1/4	115/208-230	1725	5.20/2.60	1.35	1/2 x 1 5/8	7 1/2	Sleeve	Open	5 5/8	48/56	266
GF2034D	1/3	115/230	1725	6.40/3.20	1.35	1/2 x 1 5/8	7 1/3	Sleeve	Open	5 5/8	48/56	196, 266
GF2054D	1/2	115/208-230	1725	8.20/4.10	1.25	1/2 x 1 5/8	8 1/3	Sleeve	Open	5 5/8	48/56	266
F681	3/4	230/115	1725	5.20/10.40	1.25	5/8 x 1 7/8	9.50	Sleeve	Open Drip Proof	6 1/2	56	
GK2104DV1	1	115/230	1725	15.60/7.80	1.25	5/8 x 1 7/8	10.30	Sleeve	Open	6 1/2	56	

### Notes:

3. 5/8" Shaft adapter and key included  
196. Suitable for 208 volts @ 1.0 service factor

266. 48/56 FR = 1/2" X 1 1/2" shaft with 5/8" shaft adapter - 48/56 slotted 3" height base

## Capacitor Start Resilient Base Motors

### Features

- Capacitor start, dual voltage
- Single speed
- Resilient base mounting
- Reversible rotation
- Automatic overload
- 56 Frame
- 60 Hertz
- Single phase
- Class B insulation



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Dia. (In.)	Enclosure	Notes
<b>Century</b>											
C412V1	1/2	115/208-230	1725	9.00/4.00-4.50	1.25	5/8 x 2	9 1/8	Ball	6 1/2	Open Drip Proof	205
C426V1	3/4	115/208-230	1725	11.00/5.40-5.50	1.25	5/8 x 2	9 1/8	Ball	6 1/2	Open Drip Proof	205
C523V1	1	115/208-230	1725	12.60/6.20-6.30	1.15	5/8 x 2 3/8	9 1/2	Ball	6 1/2	Open Drip Proof	205, 510
<b>NEW</b> C692	1	115/208-230	1725	6.2-6.3/12.6	1.25	5/8 Keyed x 1-7/8	9.5	Sleeve	6 1/2	Open Drip Proof	
<b>NEW</b> C621	1 1/2	115/208-230	1725	7.8-7.5/15.0	1.2	5/8 Keyed x 1-7/8	10.8	Ball	6 1/2	Open Drip Proof	



Item ID	H.P.	Volts	RPM	FL amps	Service Factor	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Frame	ENCL.	Notes
<b>Century</b>											
RB1104AV1	1	115/208-230	1725/1425	14.4/6.6-7.2	1.25	5/8 Keyed x 1-7/8	9.8	Sleeve	56	Open	60/50 HZ



Item ID	H.P.	Volts	RPM	FL amps	Service Factor	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Frame	ENCL.	Notes
<b>Century</b>											
RB1154AV1	1 1/2	115/208-230	1725/1425	19.2/9.6	1.2	5/8" Keyed x 1-7/8"	10.8	Ball	56H	Open	60/50 Hz

### Notes:

205. Extended thru bolts, shaft end only

510. 5/8" keyed shaft - 2.31" long

## Permanent Split Capacitor Oil Burner Motor

### Features

- Direct replacement for Beckett 21805U as well as a suitable replacement for many other oil burner motors
- Easy installation with new flange style
- 18 1/2 Inch lead sets
- Continuous duty
- Automatic thermal protection
- 60 Hertz
- Class F insulation
- 40°C ambient
- UL recognized
- Open shaft end bracket
- Totally Enclosed
- Ball Bearing

### Replaces

Beckett 21805U	GE 4777
Emerson 3083	Marathon 0700
Emerson 3248	Nordyne 621945
Emerson 3274	Rotom R21805U

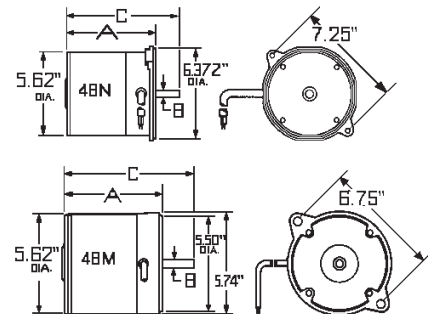


Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Frame	Mounting	Flange Material	Flange Type	Capacitor Included
<b>Century</b>													
OBK6002V1	1/7	115	3450	1.80	1	CWOSE	1/2 x 17/8	PSC	48M	Flange	Aluminum	Ventilated	20MFD/250V

## Split Phase Oil Burner Motors

### Features

- Continuous duty
- Totally enclosed
- 40°C ambient
- 5 5/8 Inch diameter
- Split phase
- Manual reset overload
- Single speed
- 60 Hertz
- Single phase



Item ID	H.P.	Volts	RPM	Approximate Full Load Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Frame	Mounting
<b>Century</b>										
EL2004V1	1/8	115	1725	2.50	Reversible	1/2 x 1 13/16	5 1/4	Sleeve	48N	N Flange
XEL2014	1/6	115	1725	3.20	Reversible	1/2 x 1 13/16	5 3/4	Sleeve	48N	N Flange
EL2014V1	1/6	115	1725	3.20	Reversible	1/2 x 1 13/16	5 3/4	Sleeve	48N	N Flange
EL2022	1/4	115	3450	3.40	Reversible	1/2 x 1 13/16	6 3/4	Sleeve	48N	N Flange
EL2024	1/4	115	1725	3.70	Reversible	1/2 x 1 13/16	6 3/4	Sleeve	48N	N Flange



Item ID	H.P.	Volts	RPM	Approximate Full Load Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Frame	Mounting
<b>Century</b>										
EL2002	1/7	115	3450	2.50	Reversible	1/2 x 1 13/16	5 1/2	Sleeve	48M	M Flange
EL2002V1	1/7	115	3450	2.50	CCWOSE	1/2 x 1 13/16	5 1/2	Sleeve	48M	M Flange
EL2012	1/6	115	3450	2.70	Reversible	1/2 x 1 13/16	6	Sleeve	48M	M Flange

## Hot Water Circulator Pump Motors

### Features

- Replacement motors for use on hot water circulator pumps by Bell and Gossett, Armstrong, Taco and others
- Sleeve and ball bearings
- Cushion rings and base included
- For use with adjustable base
- Special red paint
- Open drip proof
- Automatic overload
- 60 Hertz
- Single phase
- Capacitor included



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Rot.	Bearings	Hub to Hub	Shaft Dimension (In.)	Frame	Mouting Type	Replaces
<b>Century</b>												
HW20084L	1/12	115	1725	2.70	1.00	CCWLE	Sleeve	7 5/8	1/2 x 1/2 flat	48YZ	Cushion Rings	Armstrong Bell & Gossett
OTA2004	1/12	115	1725	2.90	1.00	REV.	Sleeve	6 1/8	1/2 x 7/8 flat	48Y	Cushion Rings	Taco



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Rot.	Bearings	Hub to Hub	Shaft Dimension (In.)	Frame	Mouting Type	Replaces
<b>Century</b>												
OBG2004 *	1/8	115	1725	3.10	1.00	REV.	Sleeve	—	1/2 x 5/8 set screw	48Y	Base Included	Bell & Gossett

Notes:  
\* Suitable replacement for 1/12 HP and 1/10 HP



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Rot.	Bearings	Hub to Hub	Shaft Dimension (In.)	Frame	Mouting Type	Replaces
<b>Century</b>												
HW2014L	1/6	115	1725	3.60	1.35	CWLE	Sleeve	7 5/8	1/2 x 5/8 flat	48YZ	Cushion Rings	Armstrong Bell & Gossett
HW2014V1L	1/6	115	1725	3.60	1.00	CWLE	Sleeve	7 7/8	1/2 x 5/8 flat	48YZ	Cushion Rings	Armstrong Bell & Gossett
C240	1/2	115/230	1725	7.20/3.60	1.25	REV.	Sleeve	8 7/8	5/8 x 1 7/8 flat	56Y	Cushion Rings	Taco
C242	1/2	115/230	1725	7.20/3.60	1.25	REV.	Sleeve	9 3/4	5/8 x 1 3/8 flat	56Y	Cushion Rings	Armstrong
C241	1/2	115/230	1725	9.60/4.80	1.25	CWLE	Sleeve	9	5/8 x 1 1/8 flat	56Y	Cushion Rings	Bell & Gossett
C243	3/4	115/230	1725	11.80/5.90	1.25	CWLE	Sleeve	9	5/8 x 1 1/8 flat	56Y	Cushion Rings	Bell & Gossett
C233	3/4	115/230	1725	10.40/5.20	1.30	REV.	Sleeve	9 3/4	5/8 x 1 3/8 flat	56Y	Cushion Rings	Armstrong
C244	3/4	115/230	1725	10.40/5.20	1.30	REV.	Sleeve	9 7/16	5/8 x 1 7/8 flat	56Y	Cushion Rings	Taco
C247	1	230/115	1725	6.50/13.00	1.25	REV.	Sleeve	9 5/8	5/8 x 1 7/8 flat	56Y	Cushion Rings	Taco
C245	1	230/115	1725	6.50/13.00	1.25	REV.	Sleeve	9 3/4	5/8 x 1 3/8 flat	56Y	Cushion Rings	Armstrong
C246	1	230/115	1725	6.50/13.00	1.25	REV.	Sleeve	9 3/8	5/8 x 1 1/8 flat	56Y	Cushion Rings	Bell & Gossett
C248	1 1/2	230/115	1725	7.50/15.00	1.20	REV.	Ball	10 1/5	5/8 x 1 7/8 flat	56Y	Cushion Rings	Taco

## Three Phase Hot Water Circulator Pump Motors

### Features

- Cushion ring mounting
- Bell and Gossett, Armstrong and Taco replacement motors
- Sleeve and ball bearings
- No base
- Three phase
- Special red paint
- Open drip proof
- No protector



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Bearings	Hub to Hub	Shaft Dim. (In.)	Frame	Hertz	Replaces
<b>Century</b>											
H982	3/4	208-230/460	1800	2.50-2.60/1.30	1.30	Sleeve	9.43	5/8 x 1 7/8	56Y	60	Taco
H984	1	208-230/460	1800	3.40-3.40/1.70	1.25	Sleeve	9.82	5/8 x 1 3/8	56Y	60	Armstrong
H985	1	208-230/460	1800	3.40-3.40/1.70	1.25	Sleeve	9.38	5/8 x 1 1/8	56Y	60	Bell & Gossett
H946	1	208-230/460	1800	3.40-3.40/1.70	1.25	Sleeve	9.43	5/8 x 1 7/8	56Y	50/60	Taco
H986	1 1/2	208-230/460	1800	4.80-5.00/2.50	1.15	Sleeve	9.62	5/8 x 1 3/8	56Y	60	3N826 Armstrong Bell & Gossett
H987	2	208/230/460	1800	6.30-6.40/3.20	1.15	Ball	9.71	5/8 x 1 7/8	56Y	60	Taco



Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Bearings	Hub to Hub	Shaft Dim. (In.)	Frame	Hertz	Replaces
<b>Century</b>											
H988	3	208/230/460	1800	4.40/9.00-8.80	1.15	Ball	11.70	7/8 x 2 1/4	56Y	60	Taco

## Square Flange Pool Pump Motors

### Features

- Used on many Sta-Rite, Red Jacket, Pac Fab, American Products and Sears jet and pool pumps
- High and low service factors
- Open drip proof enclosure
- Sealed ball bearings
- CCW pump end rotation
- 303 Stainless steel threaded shaft
- 50°C ambient
- Square flange mounting
- Capacitor start
- 3450 RPM
- Automatic overload
- 60 Hertz
- Single speed
- Single phase



Item ID	H.P.	Volts	Max Amps	Service Factor	Frame	Notes
<b>Century Square Flange/High Service Factor (Full Rated)</b>						
SQ1032	1/3	115/230	9.90/5.00	1.95	48Y	
SQ1052	1/2	115/230	13.40/6.70	1.90	48Y	
QC1052	1/2	115/230	9.60/4.80	1.90	48Y	199
SQ1072	3/4	115/230	15.30/7.60	1.65	48Y	
QC1072	3/4	115/230	12.60/6.30	1.65	48Y	199
SQ1102	1	115/230	19.20/9.60	1.65	48Y	
QC1102	1	115/208-230	16.00/8.00	1.65	48Y	199
SQ1152	1 1/2	230	10.40	1.47	48Y	199
SQ1202	2	230	11.20	1.30	48Y	199
SQ1302V1	3	230	15.40	1.15	56Y	199
<b>Century Square Flange / Low Service Factor (Up-Rated)</b>						
USQ1052	1/2	115/230	9.90/5.00	1.30	48Y	
USQ1072	3/4	115/230	13.40/6.70	1.27	48Y	
USQE1072	3/4	115/230	11.80/5.90	1.27	48Y	452
UQC1072	3/4	115/230	9.60/4.80	1.27	48Y	199
USQ1102	1	115/230	15.30/7.60	1.25	48Y	
UQC1102	1	115/230	12.60/6.30	1.25	48Y	199
USQE1102	1	115/230	14.80/7.40	1.25	48Y	452
USQ1152	1 1/2	115/230	19.20/9.60	1.10	48Y	
USQE1152	1 1/2	115/230	19.20/9.60	1.10	48Y	452
UQC1152	1 1/2	115/230	16.00/8.00	1.10	48Y	199
USQ1202	2	230	10.40	1.10	48Y	199
USQ1252	2 1/2	230	11.20	1.00	48Y	199

Notes:  
199. \$ Energy efficient capacitor start, capacitor run Conservationist motor  
452. eMod equipped motor

## NEMA C Face Pool Pump Motors

Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced

### Features

- Sealed ball bearings
- Sealed switch design
- 50°C ambient
- 3450 RPM
- Not reversible
- Capacitor start and capacitor start-capacitor run
- NEMA "56C" face mount
- 303 Stainless shaft (56J (threaded shaft) and 56C (keyed shaft))
- 304 Ball bearing on shaft end
- High service factor (full rated)
- Standard efficiency and high efficiency design (conservationist)
- Open drip proof enclosure
- Automatic overload
- CCWPE rotation
- "1081" Design
- 60 Hertz
- Single speed
- Single phase



Item ID	H.P.	Volts	Max Amps	Service Factor	Frame	Notes
<b>Century NEMA C Face Pool Filter Motors</b>						
SK1052	1/2	115/230	10.60/5.30	1.60	56C	
CK1052	1/2	115/230	8.00/4.00	1.60	56C	199
ST1052	1/2	115/230	11.00/5.50	1.60	56J	
CT1052	1/2	115/230	8.00/4.00	1.60	56J	199
SK1072	3/4	115/230	14.60/7.30	1.50	56C	
CK1072	3/4	115/230	11.00/5.50	1.50	56C	199
ST1072	3/4	115/230	15.00/7.50	1.50	56J	
CT1072	3/4	115/230	11.00/5.50	1.50	56J	199
SK1102	1	115/230	17.00/8.50	1.50	56C	
CK1102	1	115/230	13.60/6.80	1.40	56C	199
ST1102	1	115/230	18.60/9.30	1.50	56J	
STE1102	1	115/230	18.60/9.30	1.50	56J	452
CT1102	1	115/230	13.60/6.80	1.40	56J	199
SK1152	1 1/2	115/230	19.40/9.70	1.30	56C	199
ST1152	1 1/2	115/208-230	19.60/10.40-9.80	1.50	56J	199
SK1202	2	230	11.20	1.30	56C	199
ST1202	2	208-230	12.60-11.40	1.30	56J	199
ST1302V1	3	208-230	14.50-13.80	1.15	56J	199

Notes:  
199. \$ Energy efficient capacitor start, capacitor run Conservationist motor  
452. eMod equipped motor





## Evergreen EM

### Replace 100s of Different OEM X13 ECM Models

Evergreen **EM** is Designed to replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor, such as an X13 or equivalent competitor model.

#### Features

- Multi-speed, constant torque, brushless DC motor
- Available in 1/3, 1/2, 3/4 and 1HP ratings
- Automatically determines motor rotation direction
- 5 discrete speeds using 24VAC (3 using 18VDC)
- Operating speed range of 600-1200 rpm
- NEMA 48-frame (5.6 inch diameter) Belly Band Mount with 5-inch long ½ inch diameter shaft
- UL recognized component.
- Standard ECM Replacement (Does not replace premium ECM constant airflow products such as Eon, 3.0, 2.3, and 2.5)
- Maintains ECM-level Efficiency up to 80%
- Soft Start and Off Ramp for quiet operation
- Electronic Overload Protection



Item ID	H.P.	Volts	RPM	Amps	Rotation	Dim A (In.)	Dim B (In.)
<b>genteq - Evergreen EM Motors</b>							
6103E	1/3	115	600-1200	4.8	Auto Sensing	10.17	5.25
6203E	1/3	208/230	600-1200	2.8	Auto Sensing	10.17	5.25
6105E	1/2	115	600-1200	6.8	Auto Sensing	10.67	5.75
6205E	1/2	208/230	600-1200	4.1	Auto Sensing	10.67	5.75
6107E	3/4	115	600-1200	8.4	Auto Sensing	11.42	6.5
6207E	3/4	208/230	600-1200	6	Auto Sensing	11.42	6.5
6110E	1	115	600-1200	10.9	Auto Sensing	12.17	7.25
6210E	1	208/230	600-1200	7.6	Auto Sensing	12.17	7.25



**Don't Forget!**  
See page 265  
GA447  
ECM Tester

## Evergreen IM

### Energy Savings . Quiet Operation Comfort . Indoor Air Quality

Evergreen **IM** is a high-efficiency ECM replacement motor that is designed to replace factory PSC blower motors in HVAC systems including fossil fuels, electric heat, A/C, heat pump, dual fuel and geothermal; does not replace variable speed or X13 ECM motors.

Evergreen uses up to 25% fewer watts in operating mode and up to 74% fewer Watts than a PSC motor in constant fan.

#### Features

- Two Motors cover most applications
- Multi-volt 115/230VAC, 50/60 Hertz
- Integrated with HVAC system controls/operation
- Four speed selections for heating and cooling
- Optimized constant fan speed
- 1/2 inch diameter flat shaft
- Auto Sensing rotation
- 5.5 inch diameter
- Automatic overload protection
- Ball bearing
- Open enclosure
- Band mounting
- Continuous duty



Item ID	H.P.	Volts	RPM	Amps	Replaces
<b>genteq - Evergreen IM Motors</b>					
6005	1/2 (1/2, 1/3, 1/4)	115/230	1070	6.70/4.00	GE 5SME39HXL110
6010	1 (1, 3/4, 1/2)	115/230	1070	11.00/6.70	GE 5SME39SXL111



Item ID	Mounting I.D. (In.)
<b>genteq - Evergreen Belly Band Mounting Kit</b>	
5K003	10
5K004	11
5K005	13







## Evergreen CM

### ECM Replacement for Commercial VAV Boxes

Evergreen CM replaces standard 48 frame motors in VAV systems enhancing the ability of energy efficient systems to qualify for government rebate programs. With slow ramp up and ramp down there is less system noise and greater occupant comfort.

#### Features

- Variable speed, constant torque, brushless DC motor
- 277V AC single-phase input, 50/60Hz
- Designed for direct-drive blower replacement applications in commercial building systems
- Standard CCW Rotation (CW Rotation option available)
- 5 discrete speeds using 24VAC (3 using 18VDC); 600-1200 RPM
- Efficiency up to 80%
- Ready for Building Automation System Control interface using a PWM speed controller
- Constant torque with better External Static Pressure Control than standard PSC motors.
- Soft Start and Off Ramp for quieter operation



Item ID	H.P.	Volts	RPM	Amps	Rotation	Dim A (In.)	Dim B (In.)
<b>genteq - Evergreen CM Motors</b>							
6703	1/3	208-230/277	600-1200	2.8	Auto Sensing	9.17	5.25
6705	1/2	208-230/277	600-1200	4.1	Auto Sensing	9.67	5.75
6707	3/4	208-230/277	600-1200	6	Auto Sensing	10.42	6.5
6710	1	208-230/277	600-1200	7.6	Auto Sensing	11.17	7.25

## ARKTIC™ 142 Motor

#### Applications

- Designed primarily for use in the evaporator of commercial refrigeration and walk-in coolers and freezers as well as outdoor condensers can also be used in many applications demanding high efficiency and dependability with output ratings between 1/5 - 1 H.P. including parallel rack fan motors.

#### Features

- Shaft water slinger
- 26 inch cord set attached to motor
- Horizontal - vertical down orientation desired
- Totally enclosed, Non-vented (air-over ECM required)
- Designed for 50 or 60 Hertz operation
- RoHS compliant NEMA 48 Frame electronically commutated motor



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings
<b>Morrill Motors</b>									
5R007	1/3	230	1075	2.60-3.50	1	CCW	1/2 x 4	10	Ball

**TechTip**  
from Packard Academy

#### MOTOR EFFICIENCY STATISTICS:



EC



PSC



SHADED POLE



## Drop In Replacements For Commercial Refrigeration Evaporator Fan Motors

### Features

- Energy savings ECM design
- Ball bearings
- 60 Hertz
- Replaces Heatcraft, Bohn, Chandler, Climate Control and Larkin
- 42 Frame
- Class B insulation
- Four mounting studs on each end
- Includes Lyall plug
- Replaces 1/15, 1/20, 1/25 HP PSC and lower efficient shaded pole designs



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
<b>Packard</b>											
<b>97801</b>	1/15, 1/20, 1/25	120	1625	1.20	1	CWSE	5/16 x 2.95	2.85	Ball	Stud	Heatcraft 22617801 Heatcraft 22618001 Heatcraft 25307801 Heatcraft 25308001
<b>97701</b>	1/15, 1/20, 1/25	230	1625	0.70	1	CWSE	5/16 x 2.95	2.85	Ball	Stud	Heatcraft 22617701 Heatcraft 22617901 Heatcraft 25307701 Heatcraft 25307901

## 3.3 Inch Diameter Electronically Commutated Motors

### Applications

Commercial refrigeration walk-in coolers and freezers, air-moving applications demanding high efficiency and dependability

### Features

- Commercial refrigeration walk-in coolers and freezers, air-moving applications demanding high efficiency and dependability
- Efficiencies up to three times higher than shaded pole motors and 40% higher than PSC
- Ball bearing with low temperature grease
- Standard thru-bolt configuration
- All angle mount
- Totally enclosed, air over
- Rotation viewed opposite shaft end (OSE)
- Water Slinger
- Automatic overload
- 50/60 Hertz
- Single phase
- Single speed



Item ID	H.P.	Volts	RPM	Amps	OSE Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Mounting	Replaces
<b>Morrill Motors - Arctic 59 Model</b>										
<b>35100</b>	1/15	115	1550	1.30	CW	5/16 x 2-5/8	4 1/8	Totally Enclosed	Front or Rear Thru-Bolt	Larkin 253-1194
<b>35101</b>	1/15	115	1550	1.30	CCW	5/16 x 2-5/8	4 1/8	Totally Enclosed	Front or Rear Thru-Bolt	Bohn 5008S
<b>35200</b>	1/15	208-230	1550	0.80	CW	5/16 x 2-5/8	4 1/8	Totally Enclosed	Front or Rear Thru-Bolt	Larkin 253-1195
<b>35201</b>	1/15	208-230	1550	0.80	CCW	5/16 x 2-5/8	4 1/8	Totally Enclosed	Front or Rear Thru-Bolt	Bohn 5008T



**Applications**

- Supermarket refrigeration, vending machines and other condenser and evaporator fan applications

**Features**

- Drop in replacement for shaded pole and PSC motors
- Electronically commutated motors with integrated electronic control
- ECR up to 70%; UL recognized
- IP55 moisture and dust protection
- Totally enclosed, ball bearings, CCWSE rotation, can be mounted in any position.
- Operating temperature of ECR ONE motors: -22°F to +122°F
- Operating temperature of ECR UltraSynch motors: -22°F to +104°F
- Motors are built using 30% less copper and 80% less steel for a greener, more affordable solution.
- ECR UltraSynch motor includes Lyall plug.
- ECR ONE is a constant torque motor and will replace a shaded pole motor of matching wattage using the same fan blade.
- ECR UltraSynch is a constant speed motor operating at 1800 RPM over a wide range of voltage and load conditions. The correct fan blade must be specified to properly balance air flow.

### ECR ONE Constant Torque Motor



Item ID	Watts	Volts	RPM	Amps	Hertz
<b>ECR ONE</b>					
ECR01A0241	9	115	1550	0.23	60
ECR01A0102	12	115	1550	0.31	60
ECR01A0243*	16	115	1550	0.41	60

\*7 Drilled and tapped inserts for mounting.

### ECR UltraSynch™ Constant Speed Motor



Item ID	Watts	Volts	RPM	Amps	Hertz
<b>ECR UltraSynch™</b>					
ECR92PJA12	9-16	120	1800	0.34	60

### High Efficient Motors - ECM-IP Series

**Features**

- Electronically commutated - 115V, 50/60Hz
- Moisture protection: IP65
- Front mount: M4 studs on 3.72" B.C. for shroud / guard
- Drop-in replacement for front mount shaded pole / ECM
- CCW rotation from the shaft end
- All angle mount
- Totally enclosed
- Continuous air over
- Long-life sealed ball bearings



Item ID	Watts	Volts	RPM	Amps	Rotation	Length Less Shaft (In.)	Cord Length (In.)	Terminal / Plug	Replaces
<b>Elco</b>									
ECHE0147	12	115	1450	0.18	CCWSE	3.61	14	3 pin 90°	EDA12153UC0147 34410013 34410009 24681010



Item ID	Watts	Volts	RPM	Amps	Rotation	Length Less Shaft (In.)	Cord Length (In.)	Terminal / Plug	Replaces
<b>Elco</b>									
ECHE0170	12	115	1450	0.18	CCWSE	3.33	14	3 pin 90°	EDA12153UN0170 34410012 (For Fan 34415010)



Item ID	Watts	Volts	RPM	Amps	Rotation	Length Less Shaft (In.)	Cord Length (In.)	Terminal / Plug	Replaces
<b>Elco</b>									
ECHE0176	15	115	1600	0.22	CCWSE	4.00	16	2 pin 90°	EDA15253UC0176 P078449H
ECHE0182	10	115	1550	0.19	CCWSE	3.61	16	2 pin 90°	EDA10153UC0182 P079441C P066237A





## ECM Replacements for Heatcraft



### Features

- 3.3" Diameter
- Brushless High Efficiency up to 75%
- Constant Speed Design
- Straight Lyall Plug
- Rated IP55
- 6 Drilled Holes with Threaded Inserts on Opposite Shaft End

Item ID	Watts	RPM	Volts	Amps	Rotation	Shaft Dimension (In.)	Hertz	Replaces
<b>Packard</b>								
91635	16-35	1625	120-230	0.76 - 0.48	CWSE	5/16 x 2 1/2	60/50	Heatcraft 25317701 Heatcraft 25317801



Item ID	Watts	RPM	Volts	Amps	Rotation	Shaft Dimension (In.)	Hertz	Replaces
<b>Packard</b>								
91636	6-16	1550	120-230	0.35 - 0.22	CWSE	1/4 x 1/2 Threaded	60/50	ECR92PJA12

## Unitronix Unit Bearing ECM Motors



### Features

- Patented EMS electronically commutated motor technology
- Drop in replacements for shaded pole and PSC unit bearing motors
- Utilizes traditional cast iron unit bearing design for proven, trouble free long life
- Up to 70% efficient
- Low heat rise maximizes system efficiency
- Maintains constant speed over a wide range of fan applications
- Special patented water protection package
- 60/50 Hz
- Includes Lyall plug
- Rotation determined viewing lead end
- 13 mounting holes
- UL and cUL recognized

Item ID	Watts	RPM	Volts	Amps	Rotation	Mounting Holes	Replaces
<b>Electric Motor &amp; Specialties</b>							
15621	6-12	1550	115	0.2 - 0.3	CW	5 Rear holes	Hussman, Hill, Kysor/Warren
15624	14-16	1550	115	0.47 - 0.58	CW	5 Rear holes	Hussman, Hill, Kysor/Warren

### Applications

- Commercial refrigeration walk in coolers and freezers, air moving applications demanding high efficiency

### Features

- Electronically commutated motor
- Drop in replacements for 3.3" Diameter Shaded Pole & PSC Motors
- Includes Lyall plug
- Unit Bearing
- Standard thru bolt configuration
- Totally enclosed, air over
- Rotation determined viewing the shaft end
- Automatic overload
- Efficiencies up to 3 times higher than shaded pole motors and 40% higher than PSC



Item ID	H.P.	RPM	Volts	Amps	Rotation	Mounting	Replaces
<b>Electric Motor &amp; Specialties</b>							
15211	1/15-1/25	1550	115	1.25	CWSE	4 STUDS SE	Heatcraft, Bohn, and Krack
15212	1/15-1/25	1550	115	1.25	CCWSE	4 STUDS SE	Heatcraft, Bohn, and Krack
15221	1/15-1/25	1550	230	0.77	CWSE	4 STUDS SE	Heatcraft, Bohn, and Krack
15222	1/15-1/25	1550	230	0.77	CCWSE	4 STUDS SE	Heatcraft, Bohn, and Krack



Item ID	Watts	RPM	Volts	Amps	Rotation	Mounting	Replaces
<b>Electric Motor &amp; Specialties</b>							
15546	12	1550	115	0.3	CWLE	Double Foot Pad	Hussman 4410546
15547	13	1725	115	0.3	CWLE	Double Foot Pad	Hussman 4410547



## Solid State Commutated Unit Bearing Motors

### Features

- Direct drop-in replacements
- Ultimate commutated technology
- Unit bearing construction
- 100% performance tested
- Rotation is determined by viewing opposite shaft end
- Peak efficiencies in excess of 80% means lower operating temperatures and extended motor life
- Constant 1550 RPM operating speed is identical on either 50 or 60 Hertz
- Constant 1550 RPM regardless of fluctuations in voltage
- Includes Lyall plug



KRYO™ · SSC

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz
<b>Morrill Motors</b>							
10999	4-25	115	1550	0.60	CW	1/4 x 1/2	60

IP65 Certified



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
<b>Morrill Motors</b>									
10012	6-12	115	1550	0.30	CW	1/4 Threaded	60	Husmann 4410546	554
10013	6-12	115	1550	0.30	CCW	1/4 Threaded	60	—	554
10020	16-25	115	1575	0.60	CW	1/4 Threaded	60	Husmann 4410547	554
10022	16-25	115	1575	0.60	CCW	1/4 Threaded	60	—	554

Notes:  
554. Includes water shield to protect motor during coil cleaning



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz	Notes
<b>Morrill Motors</b>								
20020	16-25	208-230	1575	0.30	CW	1/4 Threaded	60	554
20022	16-25	208-230	1575	0.20	CCW	1/4 Threaded	60	554

Notes:  
554. Includes water shield to protect motor during coil cleaning



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz
<b>Morrill Motors</b>							
10036	35-50	208-230	1550	0.45	CW	1/4 Threaded	50/60
10040	35-50	115	1550	0.90	CCW	1/4 Threaded	50/60



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz
<b>Morrill Motors</b>							
10042	35-50	208-230	1550	0.45	CCW	1/4 Threaded	50/60



Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
<b>Morrill Motors</b>										
10112	12	115	1550	0.30	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	12CSHEMA1
10215	12	230	1550	0.15	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	15CSHEMA2



Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
<b>Morrill Motors</b>										
10312	12	115	1550	0.30	CWLE	90 Degree 2 Prong Plug	50/60	Double	Aluminum	12CSHBV2





## Solid State Commutated Unit Bearing Motors

### Features

- Direct drop-in replacements
- Ultimate commutated technology
- Unit bearing construction
- 100% performance tested
- Includes Lyall plug
- Rotation is determined by viewing opposite shaft end
- Peak efficiencies in excess of 80% means lower operating temperatures and extended motor life
- Constant 1550 RPM operating speed is identical on either 50 or 60 Hertz
- Constant 1550 RPM regardless of fluctuations in voltage



Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
<b>Morrill Motors</b>										
10313	16	115	1550	0.30	CWLE	90 Degree 2 Prong Plug	50/60	Double	Aluminum	12CSHEMV1



Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
<b>Morrill Motors</b>										
10113	16	115	1550	0.40	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	13CSHEMA1



Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
<b>Morrill Motors</b>										
10218	38	115	1550	0.90	CCWLE	Straight 2 Prong Plug	50/60	Double	Cast Iron	18AHEMAR1
10219	38	208-230	1550	0.45	CCWLE	Straight 2 Prong Plug	50/60	Double	Cast Iron	19AHMAR2

## Electronically Commutated Refrigeration Motors And Fan Kits



9-16 Watt, 120 Volt, 0.34 Amps

Item ID	Replaces	Includes
<b>Wellington</b>		
ECR92950	GE FAN PACK 5SME58AAF1430 900 & 950 RPM	<ul style="list-style-type: none"> <li>• ECR92PJA12 Motor</li> <li>• Mounting Shroud</li> <li>• 8 Inch 15 Degree Fan Blade</li> </ul>
ECR921200	GE FAN PACK 5SME58AAF1430 1100 & 1200 RPM	<ul style="list-style-type: none"> <li>• ECR92PJA12 Motor</li> <li>• Mounting Shroud</li> <li>• 8 Inch 25 Degree Fan Blade</li> </ul>
ECR921400	GE FAN PACK 5SME58AAF1430 1300 & 1400 RPM	<ul style="list-style-type: none"> <li>• ECR92PJA12 Motor</li> <li>• Mounting Shroud</li> <li>• 8 Inch 28 Degree Fan Blade</li> </ul>

## 58MM ECM Fan Pack



### Features

- Includes basket w/ 9.8 inch bolt circle mounting and fan blade
- Lyall plug
- 40° to 55°C ambient operating temperature
- Variable torque, constant speed ECM motors
- Class B Insulation

Item ID	H.P.	Volts	RPM	Amps	Speeds	Hertz	Rotation	Bearing	Phase	CFM at 0.05" Static Pressure	Replaces
<b>Morrill Motors</b>											
5R026	Replaces up to 12W	115	1550	0.3	1	60	CW	Unit Bearing	1	330	3426B, SSC2B12CSHEMA1
5R027	Replaces up to 12W	115	1450	0.4	1	60	CW	Unit Bearing	1	370	3427B, SSC2B13CNHEMA1
5R028	Replaces up to 12W	115	1550	0.4	1	60	CW	Unit Bearing	1	400	3428B, SSC2B13CSHEMA1



# COMING SOON



EC retrofit technology for  
walk-in and reach-in evaporators.



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[packardonline.com/ebm](http://packardonline.com/ebm)

Universal design enables quick and easy replacement of the major brands' evaporator fan and motors.

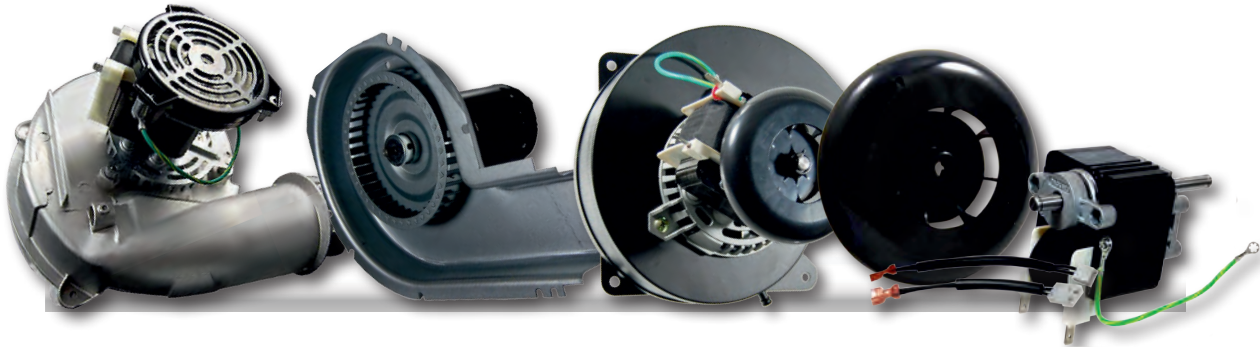
- Upgrades existing shaded pole and PSC motors to an energy efficient EC fan assembly
- Wide voltage input and universal mounting consolidate part numbers
- Fully assembled and balanced
- Plug and play for easy field replacement

**ebmpapst**

The engineer's choice

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draft inducer X-ref app



## Aladdin Steel



Replaces	
7002-2983	230-1460
Item ID	<b>A120</b>
H.P.	1/40
Volts	120
RPM	3000
Amps	1.10
Speeds	2
Type	Shaded Pole
Enclosure	Open
Bearing	Ball
Hertz	60

## Amana



Replaces	
D98686-7	7062-3151
Item ID	<b>A158</b>
H.P.	1/25
Volts	115
RPM	3450
Amps	0.70
Speeds	1
Type	PSC
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Amana



Replaces	
20190601	7021-9625
Item ID	<b>A180</b>
H.P.	1/30
Volts	115
RPM	3400
Amps	1.80
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Amana



Replaces		
098862-1	D68862-1	D98862-1
7021-9574	7021-9924	
Item ID	<b>82862</b>	
H.P.	1/35	
Volts	208-240	
RPM	3000	
Amps	0.50-0.59	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Amana/Magic Chef



Replaces	
35HWC, 48HWC, 60HWC and 66HWC Series	
Item ID	<b>66426</b>
H.P.	1/30
Volts	208-230
RPM	3000
Amps	0.65
Speeds	1
Rotation	CWLE
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Armstrong



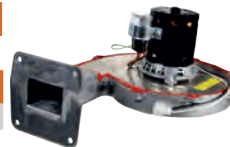
Replaces	
40404-003	117521-00
Item ID	<b>66404</b>
Volts	115
RPM	3200
Amps	1.20
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Armstrong



Replaces	
35035B001	
Item ID	<b>80280</b>
H.P.	1/60
Volts	230
RPM	3000
Amps	0.55
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Burnham



Replaces	
6116056	
Item ID	<b>66056</b>
Volts	115
RPM	3400
Amps	1.0
Speeds	1
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Gaskets

## Carrier



Replaces	
HC21ZE123A	
Item ID	<b>65123</b>
Stack Size (In.)	1.50
Volts	115
RPM	3000
Amps	1.50
Rotation	CCWLE
Speeds	1
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

## Carrier



Replaces	
HC24HE230 J238-150-15103	
Item ID	<b>65230</b>
Watts	28
Volts	208-230
RPM	3000
Amps	0.80
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Carrier



**A65569BW**  
4" x 1.5" CCW  
5/16" Bore  
Blower Wheel  
Replace Carrier  
LA11AA005

Replaces	
HC21ZE117B HC660-005	
Item ID	<b>65569</b>
H.P.	25 MHP
Volts	115
RPM	3300
Amps	1.80
Speeds	1
Shaft Dimension (In.)	1 x 5/16 x 1 7/8
Length Less Shaft (In.)	3 3/8
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

## Carrier



**A65569BW**  
4" x 1.5" CCW  
5/16" Bore  
Blower Wheel  
Replace Carrier  
LA11AA005

Replaces	
HC24HE230	
Item ID	<b>65570</b>
H.P.	25 MHP
Volts	230
RPM	3000
Amps	0.80
Speeds	1
Shaft Dimension (In.)	1 x 5/16 x 1 7/8
Length Less Shaft (In.)	3 5/8
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

## Carrier



Replaces		
HC24AU725B JA1P053 P251-2307		
Item ID	<b>82180</b>	
H.P.	1/15	
Volts	115	
RPM	3300	
Amps	1.54	
Speeds	1	
Shaft Dimension (In.)	5/16 x 2 1/8	
Length Less Shaft (In.)	3 5/8	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Carrier



Notes:  
56. Includes 5/16" Shaft Adapter

Replaces		
HC24AU600 HC24AU600B HC24A0701		
Item ID	<b>82520</b>	
H.P.	1/15	
Volts	115/230	
RPM	3000	
Amps	2.00/1.00	
Speeds	1	
Rotation	CW	
Shaft Dimension (In.)	1/4 x 2	
Length Less Shaft (In.)	5 5/8	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Carrier



Notes:  
56. Includes 5/16" Shaft Adapter

Replaces	
HC24AU700 HC24AU710	
Item ID	<b>82521</b>
H.P.	1/15
Volts	115/230
RPM	3000
Amps	2.00/1.00
Speeds	1
Rotation	CCW
Shaft Dimension (In.)	1/4 x 2
Length Less Shaft (In.)	6 3/16
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Carrier



Replaces	
48GS400106 48GS400649	
Item ID	<b>66649</b>
H.P.	1/16
Volts	208-230
RPM	3450
Amps	0.5
Speeds	1
Rotation	CCW
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60



### Carrier



**! Don't Forget**

**BW11046**  
Blower Wheel  
See Page 255



Replaces	
HC21ZE118	
Item ID	65118
H.P.	1/30
Volts	115
RPM	2800/2500
Amps	1.80/0.60
Speeds	2
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

### Carrier



Replaces		
8251510431	JA1M086	JA1M147
JA1M147N	P251-2916	
Item ID	82121	
H.P.	1/33	
Volts	115	
RPM	3000	
Amps	1.10	
Speeds	1	
Shaft Dimension (In.)	5/16 x 2 1/8	
Length Less Shaft (In.)	3 3/8	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

### Carrier



Replaces	
LA11AA005	
Item ID	A65569BW
Diameter (In.)	4
Width (In.)	1 1/2
Rotation	CCW
Bore (In.)	5/16

### Carrier



Replaces	
LAXA046	
Item ID	BW11046
Diameter (In.)	4 1/2
Width (In.)	1 5/8
Rotation	CCW
Bore (In.)	1/4

### Carrier



Replaces	
LA21RB549	
Item ID	BW16549
Diameter (In.)	5 1/4
Width (In.)	1
Rotation	CW
Bore (In.)	5/16

### Carrier



Replaces	
LA21RB548	
Item ID	BW16548
Diameter (In.)	5 3/4
Width (In.)	1
Rotation	CW
Bore (In.)	5/16

### Coleman Evcon



Notes: C-Frame motor with centrifugal switch

Replaces	
7990-317P 7102-2187	
Item ID	K629
Stack Size (In.)	1
H.P.	1/85
Volts	115
RPM	2950
Amps	0.67
Speeds	1
Rotation	CW
Shaft Dimension (In.)	1/4 x 1 1/8
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

### Coleman Evcon



Replaces	
373-19801-820 373-19801-821	
Item ID	65475
H.P.	1/150
Volts	115
RPM	3315
Amps	0.4
Speeds	1
Rotation	CCWSE
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic



## Consol. Ind./ Universal



Notes: Includes Gasket

Replaces	
401570	JA1P082
Item ID	<b>82570</b>
H.P.	1/33
Volts	115
RPM	3300
Amps	0.9
Rotation	CWSE
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Fedders



Replaces	
031-7059	
Item ID	<b>82618</b>
H.P.	1/50
Volts	115/230
RPM	3000
Amps	0.90/0.45
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
B295900	7021-8656
Item ID	<b>A162</b>
H.P.	1/50
Volts	208-230
RPM	3000
Amps	0.50
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
5KSB46GF0001S	B4833000
Item ID	<b>48331</b>
Volts	115
RPM	3200
Amps	1.80
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Rubber Boot

## Dunkirk



Replaces	
433-00-510	
Item ID	<b>82052</b>
H.P.	1/50
Volts	115
RPM	3000
Amps	1.00
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces		
B2833001S	B2833001	7021-9000
7021-9087	FB-RFB140	
Item ID	<b>A140</b>	
H.P.	1/50	
Volts	115	
RPM	3400	
Amps	1.40	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Goodman



Replaces	
B4059000	7002-3036
Item ID	<b>A182</b>
H.P.	1/35
Volts	115
RPM	3125
Amps	1.20
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



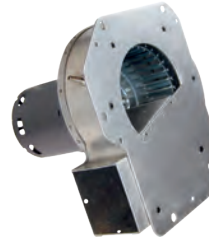
Replaces	
5KSB46GF0003S	B48330001
Item ID	<b>48332</b>
Volts	115
RPM	3200/2800
Amps	1.80/1.10
Speeds	2
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Rubber Boot

## Goodman



Replaces	
0131M00002P	0131M00002S
Item ID	<b>66002</b>
H.P.	1/35
Volts	115
RPM	3000
Amps	1.20
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Gasket

## Goodman



Replaces	
11009001	11009002 11009003
Item ID	<b>66003</b>
Volts	115
RPM	3250
Amps	0.92
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
B1859005	J238-11128
Item ID	<b>66005</b>
H.P.	1/30
Volts	115
RPM	3000
Amps	1.60
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
071M00000	
Item ID	<b>66071</b>
Stack (In.)	1.5
Volts	120
RPM	3000
Amps	2.8
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



## Goodman



Replaces	
0131M00121P	0131M00121S
Item ID	<b>66121</b>
H.P.	1/50
Volts	230
RPM	3000
Amps	0.22
Speeds	1
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
B4059000	J238-112-11195 7002-3036 J238-11195
Item ID	<b>66590</b>
H.P.	1/30
Volts	115
RPM	3000
Amps	1.50
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



## Goodman



Replaces	
B2959000S	
Item ID	<b>66959</b>
H.P.	1/30
Volts	208/230
RPM	3000
Amps	0.60/0.65
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Goodman



Replaces	
B1859000	B1859000S
Item ID	<b>82483</b>
H.P.	1/50
Volts	115
RPM	3000
Amps	1.00
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Heat n' Glow



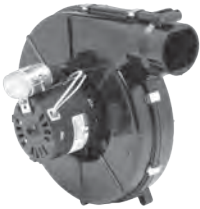
Replaces	
7002-1241	
Item ID	A133
Volts	115
RPM	3000
Amps	1.20
Speeds	1
Type	Shaded Pole
Enclosure	Open
Hertz	60

## Heil-Quaker



Replaces	
608971	
Item ID	A064
H.P.	1/55
Volts	115
RPM	3150
Amps	0.70
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## ICP



Replaces		
1010491	1010527P	1011096
1011410		
Item ID	A171	
H.P.	1/25	
Volts	115	
RPM	3450	
Amps	0.70	
Speeds	1	
Type	PSC	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## ICP



Replaces		
1010238P	1010324	1708-607
1708-607P	R7-RFB134	7021-7700
7021-8735	7021-8736	7021-9335
Item ID	A134	
H.P.	1/25	
Volts	115	
RPM	3060	
Amps	1.50	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## ICP



Replaces		
1054268P	7021-7617	7021-9237
HQ1054268FA		
Item ID	A148	
H.P.	1/50	
Volts	208-230	
RPM	3000	
Amps	0.50	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## ICP



Replaces		
1010312	1010526	1010928
1011095	1011097	1011409
1164280		
Item ID	A170	
H.P.	1/25	
Volts	115	
RPM	3400	
Amps	2.30	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## ICP



Replaces	
1010975	1010975P
Item ID	A172
H.P.	1/35
Volts	115
RPM	3000
Amps	1.60
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## ICP



Replaces		
1011350	HQ1011350	HQ1011350FA
R7-RFB350		
Item ID	A173	
H.P.	1/18	
Volts	115	
RPM	3450	
Amps	0.80	
Speeds	1	
Type	PSC	
Enclosure	Open	
Bearings	Ball	
Hertz	60	
Overload	Automatic	

## ICP



Replaces	
1149097	1008416P
Item ID	<b>A307</b>
H.P.	1/24
Volts	115
RPM	3450
Amps	0.70
Speeds	1
Type	PSC
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## ICP



Replaces		
1110008	1085571	1085571P
7021-10048	7021-10580	
Item ID	<b>66254</b>	
H.P.	1/50	
Volts	230	
RPM	3000	
Amps	0.30	
Speeds	1	
Type	PSC	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## ICP



Replaces	
1012002	1013388A
1014338	
Item ID	<b>66338</b>
H.P.	50 MHP
Volts	115
RPM	3000
Amps	2.40
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Totally Enclosed
Hertz	60
Overload	Automatic

## ICP



Replaces			
1000814	1001371	1001609	1002543
1007360	1011350	1150474	HQ1011350
Item ID	<b>66350</b>		
H.P.	1/25		
Volts	115		
RPM	3350		
Amps	0.92		
Speeds	1		
Type	PSC		
Bearings	Ball		
Enclosure	Open		
Overload	Automatic		
Hertz	60		
Includes	5MFD Capacitor		

## ICP



Replaces	
1010324	1010238P
1013833	
Item ID	<b>66833</b>
H.P.	28 MHP
Volts	115
RPM	3000
Amps	1.60
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## ICP



Replaces	
1054268P	
Item ID	<b>82148</b>
H.P.	1/30
Volts	208-230
RPM	3000
Amps	0.50
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## ICP



Replaces	
1006168	
Item ID	<b>82672</b>
H.P.	1/60
Volts	115
RPM	3300
Amps	0.90
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Johnson



Replaces	
8973C	66HWC301
Item ID	<b>80280</b>
H.P.	1/50
Volts	230
RPM	3000
Amps	0.55
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



## Lennox



Replaces	
7021-10046	
Item ID	<b>A155</b>
H.P.	1/30
Volts	115
RPM	3000
Amps	1.40
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Lennox



Replaces		
67K0401	67K0401P	7021-9450
FB-RFB547		
Item ID	<b>A163</b>	
H.P.	1/20	
Volts	115	
RPM	3400	
Amps	1.80	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Lennox



Replaces	
313L5501	7002-2975
Item ID	<b>A200</b>
H.P.	1/30
Volts	115
RPM	3000
Amps	1.35
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Lennox



Replaces		
45037-1P	46087-001	45037-001
7021-10602	7021-11106	7021-11174
Item ID	<b>A202</b>	
H.P.	1/30	
Volts	115	
RPM	3400	
Amps	1.80	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	



## Lennox



Replaces		
7021-8473	20J89	76714300
Item ID	<b>66300</b>	
H.P.	1/25	
Volts	120	
RPM	3300	
Amps	1.50	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Rotation	CWSE	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Lennox



Replaces	
88K8401	J238-087-8171
Item ID	<b>66401</b>
H.P.	1/60
Volts	120
RPM	2800
Amps	1.30
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Lennox



Replaces		
31L5501	101202-01	24W95 7002-2975
	102359-01	
Item ID	<b>66501</b>	
H.P.	1/30	
Volts	115	
RPM	3000	
Amps	1.20	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Lennox



Replaces	
47H12	LB-82590CA
Item ID	<b>82590</b>
Volts	115
RPM	3000
Amps	1.20
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



## Magic Chef/ Amana



Replaces	
HWC Series	
Item ID	<b>80280</b>
H.P.	1/60
Volts	230
RPM	3000
Amps	0.55
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



## Nordyne



Replaces	
903404	
Item ID	<b>65404</b>
Stack Size (In.)	7/8
Volts	120
RPM	3000
Amps	0.3
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



Replaces	
303875000	
Item ID	<b>80270</b>
H.P.	1/50
Volts	115/230
RPM	3000
Amps	0.90/0.45
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Miller



## Nordyne



Replaces	
622567	
Item ID	<b>66567</b>
H.P.	1/33
Volts	115
RPM	3000
Amps	0.43
Speeds	1
Rotation	CCWSE
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60

## Rheem



Replaces		
70-21496-01	7021-5239	JAIM102
Item ID	<b>A090</b>	
H.P.	1/50	
Volts	115	
RPM	3000	
Amps	1.10	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	



Replaces	
70-23641-81	
Item ID	<b>A241</b>
H.P.	1/25
Volts	208-230
RPM	3200
Amps	0.62
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Rheem



Replaces	
51-21964-01	51-21964-11
Item ID	<b>K628</b>
Stack Size (In.)	3/4
Volts	208-230
RPM	3000
Amps	0.25
Speeds	1
Rotation	CW
Shaft Dimension (In.)	1/4 x 1 1/2
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

Notes: C-Frame motor with centrifugal switch



Notes: C-Frame motor with centrifugal switch. This Kit contains one motor and three fan blades each with 10 blades and 1/4" diameter bore, in diameters of 3", 3 1/2", and 4"

Replaces	
51-21964-11	
Item ID	<b>21964K</b>
Stack Size (In.)	3/4
Volts	208-230
RPM	3000
Amps	0.25
Speeds	1
Rotation	CW
Shaft Dimension (In.)	1/4 x 1 1/2
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Rheem



Replaces	
70-101087-81	7021-11559
Item ID	<b>66781</b>
H.P.	1/50
Volts	115
RPM	3000
Amps	0.60
Speeds	1
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic

## Rheem



Replaces		
117104-01	117847-07	70-22838-82
70-24157-03		
Item ID	<b>66847</b>	
H.P.	1/30	
Volts	120	
RPM	3000	
Amps	1.70	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	



## Rheem



Notes: Gasket Included

Replaces	
70-23641-82	
Item ID	<b>82182</b>
H.P.	1/30
Volts	460
RPM	3300
Amps	0.35
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Rotation	CW Shaft End
Enclosure	Open
Diameter	3.3"
Hertz	60
Overload	Automatic

## Rheem



Replaces	
70-23641-81	
Item ID	<b>82641</b>
H.P.	1/25
Volts	208-230
RPM	3200
Amps	0.62
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

## Skymark



Replaces	
MTR136PK	
Item ID	<b>82136</b>
H.P.	1/35
Volts	208-230
RPM	3000
Amps	0.56
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



## Trane

Replaces		
210330673	210340125	X38040305017
7021-8428	D330809P01	R7-RFB143
Item ID	<b>A143</b>	
H.P.	1/50	
Volts	115	
RPM	3000	
Amps	0.95	
Speeds	1	
Type	Shaded Pole	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

## Trane



Replaces	
C661452P01	X38080029010
Item ID	<b>A150</b>
H.P.	1/35
Volts	208-230
RPM	3000
Amps	0.50
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



## Trane

Replaces	
X38040253057	7021-8569
Item ID	<b>A192</b>
H.P.	1/40
Volts	115
RPM	3000
Amps	1.00
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



### Trane

Replaces	
7021-8925	BLW00362
Item ID	<b>66362</b>
H.P.	1/100
Volts	115
RPM	3000
Amps	1-0.35
Speeds	2
Type	Shaded Pole
Bearings	Sleeve
Rotation	CWSE
Enclosure	Open
Hertz	60
Overload	Automatic



### Trane

Replaces		
D330787P01	D330809P01	BLW473
X38040305010	X38040305017	
Item ID	<b>66787</b>	
H.P.	1/30	
Volts	120	
RPM	3000	
Amps	1.20	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	
Includes	Special Plug	

### Trane



Replaces	
X38040253057	
Item ID	<b>82057</b>
H.P.	1/40
Volts	115
RPM	3000
Amps	1.00
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



### York

Replaces		
7062-2442	7062-3342	7062-3484
Item ID	<b>A137</b>	
H.P.	1/25	
Volts	115	
RPM	3450	
Amps	0.70	
Speeds	1	
Type	PSC	
Bearings	Sleeve	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

### York



Replaces	
024-25960-000	7062-3958
Item ID	<b>A165</b>
H.P.	1/25
Volts	115
RPM	3450
Amps	0.70
Speeds	1
Type	PSC
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic



### York

Replaces	
026-33999-001	
Item ID	<b>A223</b>
H.P.	1/30
Volts	208-230
RPM	3200
Amps	0.64
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

### York



Replaces		
7021-11577	17503	7021-11575
7021-11830	024-34558-000	
Item ID	<b>A225</b>	
H.P.	1/15	
Volts	115	
RPM	3200	
Amps	2.25	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	



Notes: Gasket Included

### York/Luxaire

Replaces	
326-32067-000	
Item ID	<b>66067</b>
H.P.	1/35
Volts	115
RPM	3000
Amps	1.05
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Rotation	CCWSE
Hertz	60
Overload	Automatic



## York

Replaces	
373-10337-702 7021-8612	
<b>Item ID</b>	<b>82702</b>
H.P.	1/50
Volts	115
RPM	3000
Amps	1.2
Speeds	1
Rotation	CCWSE
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



## York

Replaces	
026-33999-001	
<b>Item ID</b>	<b>82999</b>
H.P.	1/30
Volts	208-230
RPM	3200
Amps	0.64
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic



## Fasco

<b>Item ID</b>	<b>A082</b>
Nameplate CFM	75
Volts	115
RPM	2800
Amps	0.95
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>A167</b>
Nameplate CFM	30
Volts	115
RPM	2900
Amps	0.4
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>B30</b>
Nameplate CFM	45
Volts	115
RPM	3200
Amps	0.59
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>A071</b>
Nameplate CFM	71
Volts	115
RPM	2850
Amps	0.7
Speeds	1
Rotation	CCW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>B75</b>
Nameplate CFM	75
Volts	115
RPM	3200
Amps	0.59
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>A166</b>
Nameplate CFM	115
Volts	115
RPM at Free Air	3200
Amps at Free Air	1.40
Hertz	50/60



## Fasco

<b>Item ID</b>	<b>A125</b>
Nameplate CFM	125
Volts	115
RPM	3200
Amps	1.1
Speeds	1
Rotation	CW/CCW
Type	Shaded Pole
Bearings	Sleeve



## Fasco

<b>Item ID</b>	<b>B24220</b>
Nameplate CFM	135
Volts	115
RPM	2600
Amps	1.3
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve





### Fasco



Item ID	<b>B47120</b>
Nameplate CFM	180
Volts	115
RPM at Free Air	1360/1100/830
Amps at Free Air	1.95
Speeds	3
Bearing	Sleeve
Hertz	60

### Fasco



Item ID	<b>A212</b>
Nameplate CFM	212
Volts	115
RPM	2500
Amps	1.25
Speeds	1
Rotation	CW/CCW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>B45227</b>
Nameplate CFM	265
Volts	115
RPM	1650
Amps	1.86
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>B45227-2</b>
Nameplate CFM	265
Volts	230
RPM	1650
Amps	0.93
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>A455</b>
Nameplate CFM	455
Volts	115
RPM	1500/1100
Amps	1.5
Speeds	2
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>B45230</b>
Nameplate CFM	460
Volts	208-230
RPM	1600/1400
Amps	1.2
Speeds	2
Rotation	CCW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>B45267</b>
Nameplate CFM	460
Volts	115
RPM at Free Air	1600/1400
Amps at Free Air	2.90
Speeds	2
Bearing	Sleeve
Hertz	60

### Fasco



Item ID	<b>B68042</b>
Nameplate CFM	815
Volts	115
RPM	1100
Amps	5.6
Speeds	1
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve

### Fasco



Item ID	<b>A1000</b>
Nameplate CFM	1000
Volts	115/230
RPM	1100/1100
Amps	4-2.9/2-1.4
Speeds	2
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



### Fasco



Item ID	<b>A1200</b>
Nameplate CFM	1200
Volts	115/230
RPM	1500/1400
Amps	8-6.8/4-3.4
Speeds	2
Rotation	CW
Type	Shaded Pole
Bearings	Sleeve



## Direct OEM Replacements for Water Heaters

	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>American Water Heater Replacement</b>										
	W1	1/25	115	3210	1.90	1	CW	SP	Sleeve	OFC	American Water Heater 3000288
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>AO Smith Replacements</b>										
	W2	1/14	115	3275	2.30	1	CW	SP	Ball	Open	AO Smith 183505-000
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>AO Smith Replacements</b>										
	W4	1/20	115	3400	1.80	1	CCW	SP	Sleeve	Open	AO Smith 183381-000
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>Bradford White Replacements</b>										
	W3	1/17	115	3000	1.80	1	CCW	SP	Sleeve		Bradford White 117524-00, 239-39785-00
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>Bradford White Replacements</b>										
	W5	1/14	115	3275	2.50	1	CW	SP	Ball	Open	Bradford White 239-42133-00B
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>Bradford White Replacements</b>										
	W6	1/15	115	3000	2.20	1	CCW	SP	Sleeve	Open	Bradford White 239-40614-00C
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>Bradford White Replacements</b>										
	W11	1/12	120	3000	3.1	1	CW	SP	Ball		Bradford White 265-45584-00
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>GSW Replacements</b>										
	W7	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	GSW 63217
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>GSW Replacements</b>										
	W8	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	GSW 63172
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>State Ind. Replacements</b>										
	W9	1/60	115	3000	0.95	1	CW	SP	Sleeve	OFC	State Ind. 0012400500
	Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
	<b>State Ind. Replacements</b>										
	W10	1/20	115	3400	1.80	1	CCW	SP	Sleeve	OFC	State Ind. 0012400540

# BLOWERS | Transflow Blowers

## Transflow Blowers



Item ID	Nameplate CFM	Volts	RPM at		Speeds	Type	Enclosure	Hertz	Overload	Phase	Static Pressure	
			Free Air	Free Air							0.1 in.	0.2 in.
<b>Fasco</b> <b>B22505</b>	80	115	3200	0.55	1	Shaded Pole	Open	50/60	Automatic	1	57	22



Item ID	Nameplate CFM	Volts	RPM at		Speeds	Type	Enclosure	Hertz	Overload	Phase	Static Pressure	
			Free Air	Free Air							0.1 in.	0.2 in.
<b>Fasco</b> <b>B22508</b>	105	115	1500	0.70	1	Shaded Pole	Open	60	Automatic	1	100	60



Item ID	Nameplate CFM	Volts	RPM at		Speeds	Type	Enclosure	Hertz	Overload	Phase	Static Pressure	
			Free Air	Free Air							0.1 in.	0.2 in.
<b>Fasco</b> <b>B22507</b>	115	115	3100	0.85	1	Shaded Pole	Open	50/60	Automatic	1	90	40



Item ID	Nameplate CFM	Volts	RPM at		Speeds	Type	Enclosure	Hertz	Overload	Phase	Static Pressure	
			Free Air	Free Air							0.1 in.	0.2 in.
<b>Fasco</b> <b>B22510</b>	150	115	3100	1.00	1	Shaded Pole	Open	50/60	Automatic	1	125	83



Item ID	Nameplate CFM	Volts	RPM at		Speeds	Type	Enclosure	Hertz	Overload	Phase	Static Pressure	
			Free Air	Free Air							0.1 in.	0.2 in.
<b>Fasco</b> <b>B22513</b>	215	115	2780	1.30	1	Shaded Pole	Open	60	Automatic	1	196	70

# PRETTY HANDY.

Cross reference convenience when it's needed.

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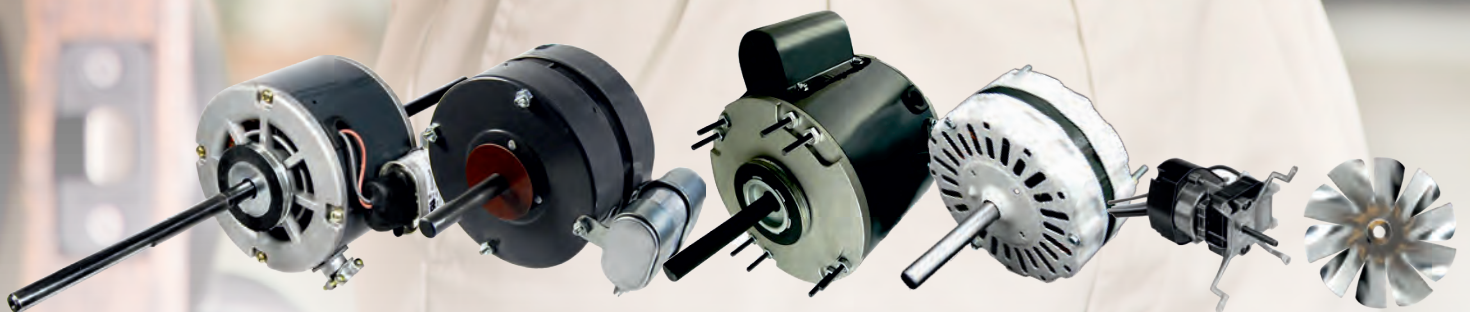
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# OEM DIRECT REPLACEMENTS

## Aaon



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN470</b>	1/4	460/380-415	3200	0.90	CCWLE	1/2 x 3 1/4	5.49	Ball	5 5/8	Open	Horizontal	5M/370V	P48470, FS48S08A27



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN010</b>	1/3	460	1100	1.00	CCWLE	1/2 x 3 1/4	4.74	Ball	5 5/8	Semi	Vertical Shaft Up	7.5M/370V	P63010, F48A11A27C



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN1076</b>	3/4	460	1075	2.60	CWSE	1/2 x 4.00	6.0	Ball	5 5/8	TEAO	Belly Band	12.5MFD/370V	F48F37A27, F48SP6V9
<b>OAN1076V1</b>	3/4	460/380-415	1075	2.8-1.8	CWSE	1/2 x 2.825	7.38	Ball	5 5/8	TEAO	Belly Band	12.5MFD/370V	F48K04A27



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN140</b>	3/4	460	1075	2.75	CCWLE	1/2 x 4	6.36	Ball	5 5/8	Semi	Vertical Shaft Up with Belly Band	12.5M/370V	P99140, F48R38A27C



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN460</b>	3/4	208-230	1075	5.40	CCWLE	1/2 x 3	7.36	Ball	5 5/8	Semi	Vertical Shaft Up	15M/370V	P85460, F48K44A27C



Item ID	H.P.	Volts	RPM	Amps	ROT.	Length		Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
						Shaft Dim. (In.)	Less Shaft (In.)						
<b>OAN747</b>	3/4	460	1075	2.00	CCWLE	1/2 x 3 1/4	7.11	Ball	5 5/8	Semi	Vertical Shaft Up with Belly Band	15M/370V	R17470, F48U09A27

## Amana



Item ID	Stack Size		RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
	(In.)	Volts									
<b>65337</b>	3/4	120	3000	0.68	1	CCW	SP	Sleeve	Open	60	C87131-1



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>82862</b>	1/35	208-240	3000	0.50-0.59	1	CW	SP	Sleeve	Open	60	098862-1, 7021-9259



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A286</b>	1/35	208/230	3125	0.6	1	CW	SP	Sleeve	Open	60	11096904, 7021-9398



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A289</b>	1/32	208/230	3125	0.75	1	CW	SP	Ball	Open	60	20351402, 7058-0081



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A160</b>	1/30	115	3000	1.6	1	CW	SP	Sleeve	Open	60	20044401, 7021-8252, 7002-2407



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A180</b>	1/30	115	3400	1.80	1	CCW	SP	Ball	Open	60	20190601, 7021-9625



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A185</b>	1/30	115	3000	1.15	1	CW	SP	Sleeve	Open	60	105854-04, 7021-9316



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A158</b>	1/25	115	3450	0.70	1	CW	PSC	Sleeve	Open	60	D98686-7, 7062-3151



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A280</b>	1/25	115	3000	1.5	1	CW	SP	Sleeve	Open	60	D986868, 7021-7794
<b>A283</b>	1/25	115	3000	1.5	1	CCW	SP	Sleeve	Open	60	D9868617, 7021-8730



# OEM DIRECT REPLACEMENTS

## Amana



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
A287	1/25	115	3000	1.15	1	CW	SP	Sleeve	Open	60	10585405, 7021-9655



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
A129	1/20	115	3250	1.95	1	CW	SP	Sleeve	Open	60	7021-9064, 7021-9259



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
G2243	1/10	208-230	1100	0.74	1	CWLE	PSC	Ball	TE	60	20181701
G2246	1/5	208-230	1080	1.60	1	CWLE	PSC	Ball	TE	60	20181702

## American Water Heater



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W1	1/25	115	3210	1.90	1	CW	SP	Sleeve	OFC	3000288

## A.O. Smith



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W4	1/20	115	3400	1.80	1	CCW	SP	Sleeve	Open	183381-000, 7021-10195, 7021-10910



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W2	1/14	115	3275	2.30	1	CW	SP	Ball	Open	183505-000, 7021-10770

## Armstrong



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
66426	1/30	208-230	3000	0.65	1	CWLE	SP	Ball	Open	60	Magic Chef/ HWC Series 66HW, 60HWC241, 48HWC24A, 66HWC181, 48HWC181, 66HWC241, 35HWC181, 60HWC301, 60HW, 48HWC241, 60HWC24A, 66HWC301, 60HWC181, 48HWC18A, 48HW, 60HWC18A, 60HWC30A, 36HWC18A, 66HWC18A, 66HWC24A, 36HWC241 36HW, 36HWC24A

## Armstrong



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
66404	1/30	115	3300	0.53	1	CWLE	PSC	Ball	Open	60	40404-003, 117521-00, 7021-12439

## Beckett



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	ENCL.	Frame	Hertz	Mounting	Replaces
OBK6002V1	1/7	115	3450	1.80	1	CW0SE	1/2 x 1 7/8	PSC	Ball	TE	48M	60	M Flange	21805U, 621945

## Bradford White



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W3	1/17	115	3000	1.80	1	CCW	SP	Sleeve	Open	117524-00, 239-39785-00



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W6	1/15	115	3000	2.20	1	CCW	SP	Sleeve	Open	239-40614-00C, 7021-9764



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
W5	1/14	115	3275	2.50	1	CW	SP	Ball	Open	239-42133-00B, 7021-10712

## Broan



Item ID	Bore (In.)	Diameter (In.)	Bore	Replaces
A65216FB	3/16	4 1/2	D Shape	99110379



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure	Replaces	Notes
65366	5/8	120	3000	0.50	2	CCW	0.185 splined x 1 1/4	SP	Sleeve	Open	99080365	45, 513



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure	Replaces	Notes
65216	5/8	120	3000	0.51	1	CCWSE	0.181 x 1 1/2	SP	Sleeve	Open	99080090, 99080216	42, 45
65094	7/8	120	3000	0.75	1	CCW	7/32 x 1 3/8	SP	Sleeve	Open	99080094, 99080099, 99080166	42, 491
65159	7/8	120	3000	0.71	1	CCW	1/4 x 2 3/4	SP	Sleeve	Open	99080159	491
65176	1 1/8	120	3000	1.00	1	CW	7/32 x 1 1/2	SP	Sleeve	Open	99080176	42

Notes:  
42. Includes Cord and Plug

45. Impedence protected  
491. Has a flattened shaft

513. Special plug and cord attached

# OEM DIRECT REPLACEMENTS

## Broan



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces
<b>69316</b>	1/12	120	1100	3.40	1	CWSE	1/2 x 3 1/16	2 1/4	SP	Sleeve	Open	97009316
<b>69317</b>	1/7	120	1100	4.30	1	CWSE	1/2 x 2 5/8	2 5/8	SP	Sleeve	Open	97009317, 99080267



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
<b>82583</b>	1/100	120	1550	0.55	1	CCW	5/16 x 1 3/4	2 5/8	SP	Sleeve	Open	97008583	45, 513
<b>82633</b>	1/50	120	1400	0.78	1	CW	5/16 x 1 3/8	2 1/2	SP	Sleeve	Open	99080273, 99080274, 99080633	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
<b>82048</b>	1/40	120	1550	0.90	1	CWSE	5/16 x 2 1/16	2 1/4	SP	Sleeve	Open	97008342, 99080048J, 99080050, 7163-9263	482



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
<b>40752</b>	1/40	120	1500	1.30	1	CCW	1/4 x 1 1/2	2 1/8	SP	Sleeve	Open	97009752, 99080096, 99080345	512



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
<b>82584</b>	1/30	120	1550	1.30	1	CCW	5/16 x 1 7/8	2 1/2	SP	Sleeve	Open	97008584	513

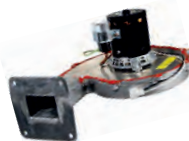


Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
<b>82152</b>	1/20	120	1550	1.79	1	CCWLE	1 3/4 x 5/16 x 1 3/4	3	SP	Sleeve	Open	99080152	42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces
<b>D1087</b>	1/12	115	1050	2.90	1	CW	1/2 x 2 1/3	2 5/8	SP	Sleeve	Open	99080178, 7151-3160

## Burnham



Item ID	Volts	RPM	Amps	Speeds	Type	Bearings	ENCL.	Hertz	Overload	Includes	Replaces
<b>66056</b>	115	3400	0.46	1	PSC	Ball	Open	60	Automatic	Gasket	6116056

Notes:  
42. Includes Cord and Plug  
45. Impedence protected

482. Two prong plugs and cord attached  
512. With cord and 2 prong 90 degree plug

513. Special plug and cord attached

## Carrier



Item ID	Bore (In.)	Diameter (In.)	Width	Replaces
<b>A65048BW</b>	5/16	3.82	1 5/8	LA11XA048



Item ID	H.P.	Stack Size (In.)	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>65123</b>	1/40	1 1/2	115	3000	1.50	1	CCWLE	3/4 x 5/16 x 1 1/8	2.54	SP	Ball	HC21ZE123A



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>65569</b>	25 MHP	115	3300	1.80	1	CW	1 x 5/16 x 1 7/8	3 3/8	SP	Ball	HC21ZE117B, 318984-753
<b>65570</b>	25 MHP	230	3000	0.80	1	CW	1 x 5/16 x 1 7/8	3 5/8	SP	Ball	HC24HE230



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>65230</b>	28 Watts	208-230	3000	0.80	1	CCWSE	—	—	SP	Ball	HC24HE230



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>82455</b>	1/40	115/230	3000	1.24/.62	1	CCWSE	5/16 x 3 7/8	5 5/8	SP	Ball	301544, 8211520253



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>82121</b>	1/33	115	3000	1.10	1	CCWLE	5/16 x 2 1/8	3 3/8	SP	Sleeve	JA1M086, P251-2916



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>65118</b>	1/30	115	2800/ 2500	1.80/0.60	2	CCWLE	3/4 x 5/16 x 1 5/8	2 3/4	SP	Ball	HC21ZE118



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>82180</b>	1/20	115	3300	1.54	1	CCWLE	5/16 x 2 1/8	3 5/8	SP	Sleeve	JA1P053, P251-2307



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>66649</b>	1/16	208-230	3450	0.5	1	CCW	—	—	PSC	Ball	48GS400106, 48GS400649, 50DK406815, HC30GB232



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>D1184</b>	1/16	460	3450	0.30	1	CCWSE	5/16 x 3.30	4 3/4	PSC	Ball	HC30GB460, HC30GB462, JF1H091, JF1H101
<b>D1182</b>	1/16	208-230	3450	0.57	1	CCWSE	5/16 x 3.30	4 1/2	PSC	Ball	HG30GB230, HG30GB232, JF1H012, JF1H092

# OEM DIRECT REPLACEMENTS

## Carrier



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>82520</b>	1/15	115/230	3000	2.00/1.00	1	CW	1/4 x 2	6	SP	Ball	HC24AU600, HC24AU600B, HC24A0701, HC24AU231, HC24AU701, HC30GU208A, HC30GU209A, HC680001
<b>82521</b>	1/15	115/230	3000	2.00/1.00	1	CCW	1/4 x 2	5 5/8	SP	Ball	HC24AU700



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>G2243</b>	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	HC34GE234, HC32GE230



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>40230</b>	1/8	208-230	1125	0.90	1	CCWSE	1/2 x 4	3 3/4	PSC	Sleeve	HC35VE230



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>D847</b>	1/8	208-230	1125	0.90	1	CCWSE	1/2 x 3 1/2	3 3/4	PSC	Sleeve	HC35VE230



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>G2246</b>	1/5	208-230	1080	1.60	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	HC37GE232



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>82210</b>	1/3	208-230	1625	1.80	1	CCWLE	5 5/8 x 1/2 x 5 5/8	4 1/4	PSC	Ball	HC41FB666



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
<b>35046</b>	1/10	208-230	1100	0.75	1	CW	1/2 x 2.5	3.75	PSC	Ball	HC33GE235 5KCP39BGY540S 5KCP39BGU996AS
<b>35048</b>	1/5	208-230	810	1.2	1	CW	1/2 x 3.25	4.5	PSC	Ball	HC37GE228 5KCP39FFAB35S 5KCP39FFBC51AS
<b>35047</b>	1/4	208-230	1100	1.4	1	CW	1/2 x 3.	4.3	PSC	Ball	HC39GE226 5KCP39FGY563S 5KCP39FGU997AS



### Carrier



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
3S049	1/4	208-230	1100	1.5	1	CW	1/2 x 2.5	4.3	PSC	Ball	HC39GE238, 5KCP39GGS238BS, 5KCP39GGWB01S
3S050	1/4	208-230/220	1100/900	1.42/1.42	1	CW	1/2 x 2.5	4.8	PSC	Ball	HC39GE208, 5KCP39HFS277DS, 5KCP39HFWB02S
3S051	1/4	460/400	1100/900	.8/.8	1	CW	1/2 x 2.5	4.6	PSC	Ball	HC39GE464, 5KCP39HGS239S, 5KCP39HGWB04S
3S052	1/4	460/400	1100/900	.7/.7	1	CW	1/2 x 2.5	5.3	PSC	Ball	HC39GE466, 5KCP39MFS303BS, 5KCP39MFWB11S



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
3S041	1/3	208-230	1075	2.7	3	CCW	1/2 x 3.75	5.36	PSC	Sleeve	HC41AE193, 5KCP39KGS081S, 5KCP39KGZ186S
3S042	1/3	208-230	950	2.4	2	CCW	1/2 x 3.75	5.1	PSC	Sleeve	HC41AE194, 5KCP39GGS080S, 5KCP39GGZ188S
3S044	1/3	115	1075	5.2	4	CCW	1/2 x 4.75	4.6	PSC	Sleeve	HC41AE117, 5KCP39GGS336S, 5KCP39GGZ183S
3S045	1/2	115	1075	7.9	4	CCW	1/2 x 4.5	5.8	PSC	Sleeve	HC43AE116, 5KCP39LGR668AS, 5KCP39LGZ184S
3S043	3/4	208-230	1075	5.2	3	CCW	1/2 x 4	6.3	PSC	Sleeve	HC45AE198, 5KCP39PGS083S, 5KCP39PGZ187S



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
82113	3/4	115	1075	11.0	3	CW	1/2 x 2 7/8	5 3/8	PSC	Ball	HC45TE113, 5KCP39PGV623CS



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Replaces
3S053	1	208-230	1620	4.9	1	CW	1/2 x 2.25	6.8	PSC	Ball	HC52ER230, 5KCP39PGU661CS, 5KCP39PGWB12S
3S054	1	460	1650	2.1	1	CW	1/2 x 2.25	6.8	PSC	Ball	HC52ER460, 5KCP39PGU660CS, 5KCP39PGWB13S

### Choice Vending



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure	Replaces
65533	1/2	120	3000	0.22	1	CW	Splined (3/16 Diameter)	SP	Sleeve	Open	863243



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Hertz	Replaces
A087	1/6	115/230	2400	2.8/1.1	1	CCW	PSC	Sleeve	Open	3.3	50/60	7062-3496, 7062-4087, 7062-4687

# OEM DIRECT REPLACEMENTS

## Coleman Evcon



Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	ENCL.	Replaces
<b>K629</b>	1	1/85	115	2950	0.67	1	CW	1/4 x 1 1/8	SP	Sleeve	Open	7990-317P, 7102-2187



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Replaces
<b>65475</b>	1/150	115	3315	0.4	1	CCWSE	SP	Ball	373-19801-820, 373-19801-821



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A156</b>	1/35	115	3000	1.1	1	CW	SP	Sleeve	Open	7021-10882, 7021-8935, 2702321P



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A088</b>	1/25	115	3200	1.3	1	CW	SP	Sleeve	Open	7021-10267, 7021-9908, D6868608, 7021-5478

## Consolidated Ind.



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A128</b>	1/50	120	3000	0.9	1	CW	SP	Sleeve	3.3	7021-10271, 7021-6376, 7021-9404, 302065



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>82570</b>	1/33	115	3300	0.9	1	CWSE	SP	Sleeve	3.3	401570, JA1P082

## Copeland



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15020</b>	35	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	60	050-0267-0
<b>65020</b>	35	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	50/60	050-0267-0



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15040</b>	50	115	1500	1.70	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	Semi	60	050-0244-01
<b>15041</b>	50	230	1500	0.85	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	Semi	60	050-0244-00

# Copeland



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15045</b>	50	230	1500	0.85	1	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	Open	60	050-0264-0



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15049*</b>	50	208-230	1500	0.85	1	CW	3/8 x 1 1/2	3 3/4	SP	Unit	Semi	50/60	050-0244-00
<b>15460</b>	50	460	1500	0.44	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	Semi	60	050-0244-02

\*Notes: May be used on 208 volt applications.



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15461</b>	50	460	1500	0.44	1	CCW	5/16 x 2	3 5/8	SP	Sleeve	Open	60	050-0264-03



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>65040</b>	50	115	1500	1.70	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	Semi	50/60	050-0244-01
<b>65041</b>	50	230	1500	0.85	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	Semi	50/60	050-0244-00
<b>65045</b>	50	230	1500	0.85	1	CCW	5/16 x 2	4	SP	Unit	Open	50/60	050-0264-0



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
<b>15116</b>	50	115	1500	1.70	1	CWLE	1/4-20 x .4	4.18	SP	Unit	Open	60	0344-01, 050-0344-01, 950-0344-01
<b>15126</b>	50	208-230	1500	0.85	1	CWLE	1/4-20 x .4	4.18	SP	Unit	Open	60	0344-10, 050-0344-10, 950-0344-10
<b>15146</b>	50	460	1500	0.44	1	CWLE	1/4-20 x .4	4.18	SP	Unit	Open	60	0344-03, 05-0344-03, 950-0344-03



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Hertz	Replaces
<b>40251</b>	1/6	208-230	1550	1.10	1	CCWSE	1/2 x 3	4 1/4	PSC	Sleeve	Open	5 5/8	50/60	998-0251-00, 050-0251-00, K55HSJNG-2974



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Hertz	Replaces
<b>40265</b>	1/6	208-230	1550	1.10	1	REV.	1/2 x 3	3 1/2	PSC	Sleeve	Open	5 5/8	50/60	050-0265-00, 950-0265-00, K55HXPGP-5104



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Hertz	Replaces
<b>40250</b>	1/4	208-230	1625	1.50	1	CCWSE	1/2 x 3 Dbl Flat	4 1/4	PSC	Sleeve	Open	5 5/8	50/60	950-0250-00, 050-0250-00, K55HXJZI-3126

## OEM DIRECT REPLACEMENTS

### Copeland



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Length		Type	Bearings	ENCL.	Dia. (In.)	Hertz	Replaces
							Shaft Dim. (In.)	Less Shaft (In.)						
<b>OCP0108</b>	1/3	208-230	1625	2.6	1	CWLE	1/2 x 2 1/4	5 3/4	PSC	Ball	TE	5 3/5	50/60	050-0108-00, 050-0018-00

### Delfield



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure	Hertz	Replaces

### Ducane



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft		Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Replaces
							Dimension (In.)	Length Less Shaft (In.)						
<b>G2243</b>	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	TE	5M/370V	20390801
<b>G2246</b>	1/5	208-230	1080	1.60	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	5M/370V	20390806
<b>G2244</b>	1/4	208-230	1075	1.70	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	7.5M/370V	20390802

### Dunkirk



Item ID	H.P.	Volts	RPM	Amps	Speeds	Type	Bearings	Enclosure	Hertz	Replaces
<b>82052</b>	1/50	115	3000	1.00	1	SP	Sleeve	Open	60	433-00-510, 98E6101

### Excel Comfort



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Diameter	Replaces
<b>A100</b>	1/45	115	2900	1.21	1	CW	SP	Sleeve	C-Frame	20093603, 7058-0280

### Fedders



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A159</b>	1/40	230	1550	0.5	1	CCW	SP	Ball	Open	60	7063-7334, AK4K84BX, 11-7096



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>A161</b>	1/40	230	1600	0.6	1	CCW	SP	Ball	Open	60	7063-7943, 8353920103

## Fedders



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>82618</b>	1/35	115/230	3000	0.90/0.45	1	CWLE	SP	Ball	Open	60	031-7059



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Replaces
<b>40188</b>	1/20	208-230	1500	0.9	1	CWSE	SP	Sleeve	Open	60	S196-00047-002, S196-00047-003

## First Company



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim.(In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Dia. (In.)	Replaces
<b>D236</b>	1/10- 1/15- 1/25	115	1550	3.50-2.40- 1.80	3	DS	7 1/2 x 1/2 x 7 1/2	3 3/8	SP	Sleeve	Open	4.4	SD-110021



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Dia. (In.)	Replaces	Notes
<b>D258</b>	1/5- 1/10	208- 230	1550	2.80- 1.30	2	CCWLE	8 x 1/2 x 8	3 3/8	PSC	Sleeve	Open	5	M10	515, 556

Notes:  
515. 5M 370V capacitor included

556. Comes with 2 1/2" O.D. rubber mounting rings



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Dia. (In.)	Replaces
<b>80010</b>	1/4	208-230	1625	1.65	2	CCWLE	7 1/4 x 1/2 x 7 1/4	4 1/2	PSC	Ball	Open	5 5/8	M10



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Dia. (In.)	Replaces
<b>82201</b>	1/4	208-230	1145	1.21	1	CCWSE	1/2 x 7 1/2	4 3/8	PSC	Ball	Open	5 5/8	M201B



Item ID	Diameter (In.)	Width (In.)	Rotation	Bore (In.)	Material	Replaces
<b>A60200BW</b>	7 11/16	8	CW	1/2	Galvanized Steel	W200

Notes:  
Can be used with motor 82201

## Franklin



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Diameter	Replaces
<b>B23617</b>	115/230	3000	0.9/0.45	1	CCW	SP	Sleeve	Open	3.3	303875, 7021-10288, 7021-5703



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Diameter	Replaces
<b>B23618</b>	115/208-230	3000	0.95/0.45	1	CCW	SP	Ball	Open	3.3	031-7059, 7021-10289, 7021-5932



## OEM DIRECT REPLACEMENTS

### Frigidaire



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces
65333	1/2	120	3000	0.88-0.68	1	CCW	3/16 x 1 1/8	SP	Sleeve	Open	60	1137820

### Frymaster



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Diameter	Replaces
A110	1/70	115	3212	0.76	1	CW	SP	Ball	C-Frame	7002-3093, 7002-3512, 7021-0898,

### General Electric



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Encl.	Hertz	Replaces
65338	1/2	120	3000	0.88-0.68	1	CW	1/8 x 1 1/4	SP	Sleeve	Open	60	WR60X162



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Encl.	Replaces
65685	1	120	3000/1550	0.90	2	CW	3/16 x 1 5/8	SP	Sleeve	Open	WB26X45



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Encl.	Hertz	Replaces
65018	5	115	1550	0.34	1	CW	1/4 x 1/2	SP	Unit	TE	50/60	5KSM81FFL18



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Encl.	Hertz	Replaces
65017	9	115	1550	0.55	1	CW	1/4 x 1/2	SP	Unit	TE	50/60	5KSM81FFL17



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Dia. (In.)	Encl.	Hertz	Replaces
OTR4513	1/8	208-240	1550	0.80-0.90	1	CCWLE	1/2 x 3 1/8	PSC	Sleeve	5	TE	60	5KSP29DK1728S



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Dia. (In.)	Encl.	Hertz	Replaces
41728	1/8	230	1550	1.10	1	CW	1/2 x 3	PSC	Sleeve	5	Semi	60	5KSP29DK1728S, WW94X936PSC



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Dia. (In.)	Encl.	Hertz	Replaces
D1050	1/8	230	1550	1.10	1	CW	1/2 x 3	PSC	Sleeve	5	Open	60	5KSP29DK1728S

## Gibson



Item ID	Stack Size		Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension		Type	Bearings	ENCL.	Hertz	Replaces
	(In.)							(In.)						
65335	5/8		120	3000	1.35	1	CW	3/16 x 1 3/8		SP	Sleeve	Open	60	33-335

## Goodman



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces	Notes
48331	115	3200	1.80	1	CWLE	SP	Ball	Open	C-Frame	5KSB46GF0001S, B4833000	79

Notes:  
79. Includes rubber boot



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
66003	115	3250	0.92	1	CCWLE	PSC	Ball	Open	3.3	098862-1, 11009001, 11009003



Item ID	Stack Size		Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
	(In.)											
66071	1 1/2		115	3000	2.80	1	CWLE	SP	Ball	Open	C-Frame	071M00000, 22307501S, 20190601



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
A282	1/60	220	2600	0.45	1	CCW	SP	Sleeve	Open	3.3	B1859050S, 7021-8448



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
82483	1/50	115	3000	0.90	1	CWLE	SP	Ball	Open	3.3	B1859000, B1859000S



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
A079	1/50	115	3000	1.10	1	CCW	SP	Sleeve	Totally Enclosed	3.3	B1859000, 74-70-21964-03-01, 7021-6804



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
A140	1/50	115	3400	1.40	1	CW	SP	Sleeve	Open	3.3	B2833001S, B2833001, 7021-9000, 7021-9087, FB-RFB140



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
66121	1/50	230	3000	0.22	1	CCWSE	PSC	Ball	Open	3.3	0131M00121P, 0131M00121S

# OEM DIRECT REPLACEMENTS

## Goodman



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A162</b>	1/50	208-230	3000	0.50	1	CCW	SP	Sleeve	Open	3.3	B295900, 7021-8656



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A281</b>	1/40	115	3000	0.9	1	CW	SP	Sleeve	Open	3.3	D6996405, 7021-8252



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A285</b>	1/40	115	3250	1.4	2	CW	SP	Sleeve	Open	3.3	B2833002, 7021-9236



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>66002</b>	1/35	115	3000	1.2	1	CWLE	SP	Ball	Open	C-Frame	0131M00002P, 0131M00002S



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A157</b>	1/35	115	3000	1.3	1	CCW	SP	Sleeve	Open	C-Frame	7002-2307



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A182</b>	1/35	115	3125	1.20	1	CCW	SP	Sleeve	Open	C-Frame	B4059000, 7002-3036



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A184</b>	1/35	115	3125	1.55	1	CCW	SP	Ball	Open	C-Frame	B4059001, 7058-0229



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>66005</b>	1/30	115	3000	1.60	1	CWLE	SP	Ball	Open	C-Frame	B1859005, J238-11128



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>66590</b>	1/30	115	3000	1.50	1	CWLE	SP	Ball	Open	C-Frame	B4059000, J238-112-11195

## Goodman



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>A181</b>	1/30	115	3192	1.5	1	CW	SP	Ball	Open	C-Frame	20044403, 7058-0136



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A284</b>	1/30	208/240	3000	0.59/0.5	1	CW	SP	Sleeve	Open	3.3	D9886202, 7021-9227



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A288</b>	1/30	115	3100	1.4/.65	2	CW	SP	Ball	Open	3.3	11177202, 7021-9727



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A189</b>	1/24	115	3000	1.5	1	CW	SP	Sleeve	Open	3.3	D9868620, 7021-7302



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A290</b>	1/20	115	3200/2400	0.7	2	CCW	PSC	Ball	Open	3.3	20245903, 7062-5015



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A187</b>	1/20	208-230	3250	0.8	1	CW	SP	Sleeve	Open	3.3	20028901, 7021-10006



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Dia. (In.)	Replaces
<b>A188</b>	1/18	115	3250	1.6	1	CW	SP	Sleeve	Open	3.3	B4833000, 7021-10958



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces	Cap. Required
<b>OGD1016</b>	1/6	208-230	1075	1.00	1	CCWLE	PSC	Sleeve	Open	B13400-251	5M/370V
<b>OGD1026</b>	1/4	208-230	1075	1.50	1	CCWLE	PSC	Sleeve	Open	B13400-247	5M/370V

# OEM DIRECT REPLACEMENTS

## Greenheck



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
90145	8 Watt	115	950	1.15	CWSE	5/16 x 2 5/8	2 3/4	Sleeve	3.3"	OAO	Stud	SP	310145
90198	1/40	115	1050	1.80	CWSE	5/16 x 2 5/8	3	Sleeve	3.3"	OAO	Stud	SP	310198



Item ID	Watt	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
90955	5	115	700	0.19	CWSE	5/16 x 2 3/4	2 1/2	Ball	3.3"	TEAO	Stud	PSC	314955
90038	3	115	675	0.15	CWSE	5/16 x 2 3/4	2 1/2	Ball	3.3"	TEAO	Stud	PSC	315038



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90318	1/8	115	1550/ 1300/ 1050	2.60	3	CCWSE	1/2 x 2 3/4	3 5/8	PSC Cap Included	Ball	5.12	Thru Bolt	308318



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Bearings	Dia.	ENCL	Mounting	Type	Replaces
90153	1/4	115	1725	4.60	CCWLE	1/2 x 2	7 5/8	Ball	5.69"	ODP	Stud	Split Phase	309153

## GSW



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
W7	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	63217



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
W8	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	63172

## Heatcraft - Bohn - Larkin



Item ID	Watts	RPM	Volts	Amps	Rotation	Hertz	Replaces
91636	6-16	1550	120-240	0.35-0.22	CW	50/60	ECR92PJA12
91635	16-35	1635	120-230	0.76-0.48	CW	50/60	Heatcraft 25317701, Heatcraft 25317801



## Heatcraft - Bohn - Larkin



Item ID	Stack Size		Volts	RPM	Amps	Rotation	Shaft Dimension		Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)						
65691	5/8		120	3000	0.64	CW	0.181	1 5/16	SP	Sleeve	Open	5007S 5018S, 5036F	354, 472, 474
65692	5/8		240	3000	0.32	CW	0.181	1 5/16	SP	Sleeve	Open	5007 5018T, 5036G	354, 472, 474



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
41101	1/20	115	1500	1.90	CCW	5/16	2 1/4	2 3/4		SP	Sleeve	Open	253-1194	329, 500
41103	1/20	208-230	1500	0.93	CCW	5/16	2 1/4	2 7/8		SP	Sleeve	Open	253-1195	329, 500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
41194	1/20	115	1550	1.90	CCW	5/16	2 3/8	2 5/8		SP	Sleeve	Open	253-1194	463
41195	1/20	208-230	1550	0.89	CCW	5/16	2 3/8	2 7/8		SP	Sleeve	Open	253-1195	463



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
45036	1/20	115	1550	2.10	CW	5/16	2 1/2	3		SP	Sleeve	Open	5036-SS	500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
D1101	1/20	115	1500	1.90	CCW	5/16	2 1/4	2 3/4		SP	Sleeve	Open	253-1194	
D1103	1/20	208-230	1500	1.15	CCW	5/16	2 1/4	3		SP	Sleeve	Open	253-1195	



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
D1124	1/20	115	1550	2.10	CW	5/16	3	3		SP	Sleeve	Open	5008S, 5KSM59JSK143S	500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension		Length Less Shaft		Type	Bearings	Enclosure	Replaces	Notes
						(In.)		(In.)						
35100	1/15	115	1550	1.30	CWOSE	5/16	2 5/8	4 1/8		ECM	Ball	TE	253-1194	500
35101	1/15	115	1550	1.30	CCWOSE	5/16	2 5/8	4 1/8		ECM	Ball	TE	5008S	500
35200	1/15	208-230	1550	0.80	CWOSE	5/16	2 5/8	4 1/8		ECM	Ball	TE	253-1195	500
35201	1/15	208-230	1550	0.80	CCWOSE	5/16	2 5/8	4 1/8		ECM	Ball	TE	5008T	500

**Notes:**

329. Motor has 4 studs on both ends  
 354. Impedance protected  
 463. Identical Bolt Pattern of Larkin

472. Includes stand offs for other Bohn applications  
 474. Used in Bohn commercial evaporators  
 500. Includes Cord and Lyall Plug

# OEM DIRECT REPLACEMENTS

## Heatcraft - Bohn - Larkin



Item ID	H.P.	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
41124	1/15	120	1550	2.00	CW	5/16 x 3	3 1/2	SP	Sleeve	Open	5008S	329 500 551
41126	1/15	208-230	1550	1.10	CW	5/16 x 3	3 1/2	SP	Sleeve	Open	5008T, 5034L	329 500



Item ID	H.P.	Volts	RPM	Amps	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
45008S	1/15	115	1550	1.80	CWSE	5/16 x 3	3	SP	Sleeve	Open	5008S, 5034LS	499 500
45008T	1/15	208/230	1550	1.20-1.00	CWSE	5/16 x 3	3 1/2	SP	Sleeve	Open	5008T, 5034MS	499 500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
D1126	1/15	230	1550	1.10	CW	5/16 x 3	3 1/2	SP	Sleeve	Open	5008T, 5KSM59LS2262AS	500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
97701	1/15, 1/20, 1/25	230	1625	0.70	CWSE	5/16 x 2.95	2.85	ECM	Ball	TE	22617701, 22617901, 25307701, 25307901	500, 499
97801	1/15, 1/20, 1/25	120	1625	1.20	CWSE	5/16 x 2.95	2.85	ECM	Ball	TE	22617801, 22618001, 25307801, 25308001	500, 499



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
9721	1/12	115/208-230	1550	1.10/0.50	Rev.	5/16 x 3 1/4	3 5/8	PSC	Ball	Open	7071061, 25309101	189 498 500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
41125	1/12	208-230	1550/1400	0.50	CCW	5/16 x 2 5/8	3 1/2	PSC	Sleeve	Open	5008T	304 500



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
D1125	1/12	208-230	1550	0.40	CCW	5/16 x 2 5/8	3 3/4	PSC	Sleeve	Open	7190-0442	42, 304



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Encl.	Replaces	Notes
49101	1/12-1/15-1/20	115/208-230	1550/1400	1.10/0.50	Rev.	5/16 x 3 1/8	3 5/8	PSC	Ball	Open	7071061, 25309101	189, 304, 498, 499, 500

**Notes:**

42. Includes Cord and Plug  
189. Includes reversing plug

304. Run capacitor mounted on motor shell  
329. Motor has 4 studs on both ends

498. 50/60 Hertz  
499. Identical bolt pattern as OEM motor

500. Includes Cord and Lyall Plug  
551. Low Temp. Oil

## Heil-Quaker



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Hertz	Overload	Replaces
A064	1/55	115	3150	0.70	1	CW	SP	Sleeve	Open	60	Automatic	5C085, 610672, 608971

## Herman Nelson



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
D827	1/8	115	700	2.50	1	CCW	1/2 x 2	5 1/2	PSC	Ball	5 5/8	7-150444-02

## Hill



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Replaces	Notes
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	PP7577M	87, 551

## Hussmann



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Mounting	Replaces	Notes
65133	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	SP	Unit	TE	Single Foot Pad	58698	87, 551



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Mounting	Replaces	Notes
61103	12	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	SP	Unit	TE	No Foot Pad	0047000, 441-103, 0440421, 125-01-0615A	87, 551



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Mounting	Replaces	Notes
61104	12	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	SP	Unit	TE	Double Foot Pads	4410311	87, 551



Item ID	Watts	Volts	RPM	Amps	ROT.	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Mounting	Replaces
15546	12	115	1550	0.30	CWLE	1/4-20 x .425	3.13	ECM	Unit	TE	Rear Mount	0477655 4410546
15547	13	115	1725	0.30	CWLE	1/4-20 x .425	3.13	ECM	Unit	TE	Rear Mount	0477656 4410547

Notes:  
87. Includes straight Lyall plug

551. Low Temp. Oil

# OEM DIRECT REPLACEMENTS

## Ice-O-Matic



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
15020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-01
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-03, 309316-000
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-01
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03, 309316-000



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Encl.	Double Foot Pads	60	319357-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Encl.	Double Foot Pads	50/60	319357-000

## ICP



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces	
66833	28 MHP	115	3000	1.60	1	CW	SP	Ball	Open	1010324 1013833 1010975	1010238P 4MH28



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces	
66338	50 MHP	115	3000	2.40	1	CW	SP	Ball	TE	1012002 1014338	1013388A 1013188



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
A174	1/100	115	2350	0.8	1	CW	SP	Sleeve	Open	1010239, 7021-9188
A301	1/100	115	2350	0.8	1	CW	SP	Sleeve	Open	1010239, 1094073



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces	
A151	1/90	230	2800	0.3	1	CW	SP	Sleeve	Open	1050144 4MH40	1170870 7021-10287



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces	
A141	1/60	115	2800	1	1	CW	SP	Ball	Open	1094073 4MH33 7021-8741	1094074 7021-10280 7021-8742



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
A179	1/60	115	3300	0.9	1	CW	SP	Sleeve	Open	1006168P, 7021-8693

## ICP



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>82672</b>	1/60	115	3300	0.90	1	CCWLE	SP	Sleeve	Open	1006168, 1006168P, 7021-8693



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A148</b>	1/50	208-230	3000	0.50	1	CCW	SP	Sleeve	Open	1054268P 7021-7617 7021-9237 HQ1054268FA



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>66254</b>	1/50	230	3000	0.30	1	CCWLE	PSC	Ball	Open	1110008 1085571 1085571P 7021-10048 7021-10580 119254-00



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A175</b>	1/40	115	3300	1.0	1	CCW	SP	Sleeve	Open	1708600, 7002-1891



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A177</b>	1/36	115	3000	1.4	2	CW	SP	Ball	Open	1011632, 7021-10363



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>66529</b>	1/35	115	3000	1.50	1	CCWSE	SP	Ball	—	100011645 10011645 10011945 1014433 1014529



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A172</b>	1/35	115	3000	1.60	1	CW	SP	Ball	—	1010975, 1010975P



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A178</b>	1/30	115	3400	1.8	1	CW	SP	Ball	Open	1012002, 1013188



# OEM DIRECT REPLACEMENTS

## ICP



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>82148</b>	1/30	208-230	3000	0.50	1	CCW	SP	Sleeve	Open	1054268P, 1054268, HQ1054268FA



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A306</b>	1/30	208-230	3350/2900	0.3	2	CCW	PSC	Sleeve	Open	1097245, 7062-4532



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A134</b>	1/25	115	3060	1.50	1	CW	SP	Sleeve	Open	1010238P 1010324 1708-607 1708-607P R7-RFB134 7021-7700 7021-8735 7021-8736 7021-9335



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A302</b>	1/25	115	3060	1.5	1	CW	SP	Sleeve	Open	1010324P, 7021-9499, 7021-9277
<b>A304</b>	1/25	115	3060	1.5	1	CW	SP	Sleeve	Open	7021-9701, 1011021



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A176</b>	1/25	115	3100	2.2	1	CW	SP	Ball		1011899, 7002-2946



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>66350</b>	1/25	115	3350	0.92	1	CCWSE	PSC	Ball	Open	1000814 1001371 1001609 1002543 1007360 1011350 1150474 HQ1011350



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A170</b>	1/25	115	3400	2.30	1	CCW	SP	Ball	Open	1010312 1010526 1010928 1011095 1011097 1011409 1164280



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
<b>A145</b>	1/25	115	3450	0.7	1	CCW	PSC	Ball	Open	1008695 4MH47 7021-10299 7062-4061

# OEM DIRECT REPLACEMENTS

## ICP



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces	
<b>A171</b>	1/25	115	3450	0.70	1	CCW	PSC	Ball	Open	1010491 1011096	1010527P 1011410



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces	
<b>A307</b>	1/24	115	3450	0.7	1	CW	PSC	Sleeve	Open	7062-5165 7062-3794	1149097 1008416P



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces	
<b>A173</b>	1/18	115	3450	0.80	1	CCW	PSC	Ball	Open	1011350 HQ1011350FA	HQ1011350 R7-RFB350



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces	
<b>A169</b>	1/25	230	2800	0.75	1	CW	SP	Sleeve	Open	1010008 1110008 7021-10580	1085571 7021-10048 7021-10580

## IEC



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
<b>D1045</b>	1/30	115-127	1100	0.53	PSC	3	CW	1/2 X 9	Sleeve	5	3 1/8	5KCP29BK8382S, S89202



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
<b>D1053</b>	1/30	265	1075	0.38	PSC	3	CW	1/2 X 7 1/8	Sleeve	5	3 1/3	5KCP29BK8094S, S89203
<b>D1047</b>	1/20	208-230	1075	1.6	PSC	3	CW	1/2 X 7 1/8	Sleeve	5	3 7/8	5KCP29FK8028S, S88935



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
<b>D1048</b>	1/20	277	1075	0.5	PSC	3	CW	1/2 X 7 1/4	Sleeve	5	3 7/8	5KCP29FK8132S, S89205



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
<b>D1049</b>	1/20	265	1075	0.4	PSC	3	CW	1/2 X 7 1/8	Sleeve	5	3 7/8	5KCP29FK8388S, S89204
<b>D1041</b>	1/15	265	1075	0.6	PSC	3	CW	1/2 X 7 1/8	Sleeve	5	3 7/8	5KCP29DK8389S, S89206

Notes:  
A Dim. equals depth of the motor housing

# OEM DIRECT REPLACEMENTS

## IEC



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
D1055	1/12	115-127	1375	1.4	PSC	3	DS	9 1/8 X 1/2 X 9 1/2	Sleeve	5	3 1/8	5KCP29BK83835, S89207



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
D1059	1/6	115-127	1450	2.3	PSC	3	DS	8 3/4 X 1/2 X 9	Sleeve	5	3 1/3	5KCP29DK83845, S89208



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
D1040	1/5	208-240	925	1.6	PSC	3	CW	1/2 X 8	Sleeve	5	4 1/3	5KCP29KK83855, S89209



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
D1044	1/4	115	970	6	PSC	3	CW	1/2 X 8	Sleeve	5	4 1/3	5KCP29DK83875, S89210



Item ID	H.P.	Volts	RPM	Amps	Type	Speeds	Rotation	Shaft Dim. (In.)	Bearings	Dia. (In.)	A Dim.	Replaces
D1043	1/4	265	1075	1.6	PSC	3	CW	1/2 X 6 1/4	Sleeve	5	4 5/8	5KCP29DK83865, S89211

**Notes:**  
A Dim. equals depth of the motor housing

## IMI Cornelius



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces
15050	50	115	1500	1.70	CW	5/16 x 3	3 7/8	Open	60	ESPOL50EM1B1, 134350000



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	319357-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	319357-000



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-03, 309316-000
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03, 309316-000

## Johnson Furnace



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces		
<b>80280</b>	1/60	230	3000	0.55	1	CWLE	SP	Ball	Open	3.3	36HW 48HWC181 36HWC18A	35HC181 36HC241	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces		
<b>A081</b>	1/40	230	3000	0.5	1	CCW	SP	Ball	3.3	36HWC18A 36HWC241	36HW 48HW	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Dia. (In.)	Replaces	
<b>A085</b>	1/30	230	3000	0.7	1	CCW	SP	Ball	Open	3.3	35035B001, 36HW	



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Replaces
<b>40493</b>	1/6-1/10	208-230	1075	1.40	2	CCW	1/2 x 2	4	PSC	Sleeve	Open	5 5/8	3699B

## Kitchen Aid



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure	Replaces	
<b>65455</b>	1/2	120	3000	0.35	1	CW	7/32 x 1	SP	Sleeve	Open	240332-1, 4162472	

## Krack



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
<b>41189</b>	1/20	115/ 208-230	1350/ 1550	1.60/ 0.80	1	CWSE	5/16 x 1 5/8	3 1/16	SP	Ball	3.3	Lug	11528, 11529



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
<b>D1189</b>	1/20	115/ 208-230	1550	1.40/ 0.76	1	CWSE	5/16 x 1 5/8	3 1/8	SP	Ball	3.3	Lug	11528, 11529



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
<b>OKR1096</b>	1/2	208-230/ 460	1140	2.00- 1.90/0.95	1	Rev.	5/8 x 2	9 1/4	3 phase	Ball	6 1/2	Belly Band	150372, 11096



Item ID	H.P.	Volts	RPM	Amps	Speeds	ROT.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
<b>OKR1503</b>	1	200-230/ 460	850	4.40- 4.00/2.00	1	Rev.	5/8 x 3 1/4	10 1/4	3 phase	Ball	6 1/2	Belly Band	151437. 11503

# OEM DIRECT REPLACEMENTS

## Kyser Warren



Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	ENCL.	Hertz	Mounting	Replaces
10019	9	115	1550	0.53	1	CW	1/4 x 1/2	2 3/8	SP	TE	60	No Foot Pads	5991

## L.L. Building



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	ENCL.	Dia. (In.)	Replaces
99320	1/14	120	900	3.40	1	CWSE	1/2 x 2.02	2.27	SP	Open	5.12	V909320



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	ENCL.	Dia. (In.)	Capacitor Included	Replaces
99371	1/7	120	1050	2.80	1	CWSE	1/2 x 2.30	3.08	PSC	Open	5.12	8MFD / 250VAC	V909371, V909336
99321	1/5	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	Open	5.12	10MFD / 250VAC	V909321, V909337
99319	1/4	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	Open	5.12	10MFD / 250VAC	V909319

## Lennox



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A138	1/70	120	3000	0.7	1	CCW	SP	Sleeve	Open	60	Auto	7021-8657, 7021-8825



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A322	1/70	120	3000	1.1	2	CCW	SP	Sleeve	Open	60	Auto	67M6401, 24L0101, 83L8201, 7021-9884



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A219	1/65	120	3000	0.7	1	CCW	SP	Sleeve	Open	60	Auto	88J3901, 7021-9262



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A320	1/60	115	3000	0.8	1	CCW	SP	Sleeve	Open	60	Auto	27K6101, 10115401



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
66401	1/60	120	2800	1.30	1	CWLE	SP	Ball	Open	60	Auto	88K8401, J238-087-8171, 43K4101, 46K4101, 67M5401, 67M5401



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A135	1/60	120	3000	0.7	1	CCW	SP	Sleeve	Open	60	Auto	33J4101, 7021-10276, 4MH29, 7021-8812



## Lennox



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A068</b>	1/60	120	3000	1.15	1	CCW	SP	Ball	Open	60	Auto	88K8401, J238-8171



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces	
<b>A164</b>	1/50	120	3400	0.8	1	CCW	SP	Sleeve	Open	60	Auto	10K5101 43K4101	10K5301 46K4101



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces	
<b>66501</b>	1/30	115	3000	1.20	1	CCWSE	SP	Ball	Open	60	Auto	31L5501 102359-01 313L5501	101202-01 24W95 68M26



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A200</b>	1/30	115	3000	1.35	1	CCW	SP	Sleeve	Open	60	Auto	313L5501, 7002-2975



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A155</b>	1/30	115	3000	1.40	1	CCW	SP	Ball	Open	60	Auto	7021-10046, 40425-002



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A210</b>	1/30	115	3000	1.7	2	CCW	SP	Ball	Open	60	Auto	18M6701, 27M1301



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A202</b>	1/30	115	3400	1.80	1	CCW	SP	Ball	Open	60	Auto	45037-001, 46087-001



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces	
<b>A201</b>	1/30	208-230	3000	0.65	1	CCW	SP	Ball	Open	60	Auto	41144-001 7021-10055	41144-002 7021-10743



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A207</b>	1/28	115	3000	1.75	1	CCW	SP	Ball	Open	60	Auto	60M7901, 7058-0217



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A208</b>	1/28	115	3000	1.75	1	CCW	SP	Ball	Open	60	Auto	60M8101, 7058-0322

# OEM DIRECT REPLACEMENTS

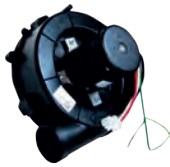
## Lennox



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A218</b>	1/28	220-240	3000	0.6/0.52	1	CCW	SP	Ball	Open	60	Auto	39L4201, 60J4201



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A206</b>	1/25	115	3000	1.5	1	CW	SP	Sleeve	Open	60	Auto	20J8091, 7021-8473



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A213</b>	1/25	115	3200	2.1	2	CCW	SP	Ball	Open	60	Auto	18L0401, 7021-10376



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A216</b>	1/25	115	3200	2.1	2	CCW	SP	Ball	Open	60	Auto	60L1401, 7021-10915



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	ENCL.	Hertz	Bearing	Replaces
<b>66300</b>	1/25	115	3300	1.5	1	CW	SP	Open	60	Sleeve	7021-8473, 20J89



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A209</b>	1/20	115	3200/ 2800	0.8	2	CCW	PSC	Ball	Open	60	Auto	38M5001, 7062-5441



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A163</b>	1/20	115	3400	1.80	1	CCW	SP	Ball	Open	60	Auto	7021-9450 67K0401 67K0401P FB-RFB547 36717D1 36717D3 36717D4



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A203</b>	1/20	115	3400	1.8	1	CCW	SP	Ball	Open	60	Auto	49L5301, 7021-10841



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
<b>A204</b>	1/20	115	3400	1.8	1	CCW	SP	Ball	Open	60	Auto	83L4101, 7021-11406

## Lennox



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A205	1/20	120	3000	0.7	1	CCW	SP	Sleeve	Open	60	Auto	19J0401 7021-9001 7021-8372 T6-2118



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A217	1/16	230	3000	0.83	1	CCW	SP	Ball	Open	60	Auto	25M5501, 7021-11231



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A211	1/15	115	3400	2.35	1	CCW	SP	Ball	Open	60	Auto	81M1601, 7021-11634



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Hertz	Overload	Cap. Req.	Replaces
A324	1/12	230	3200	0.44	1	CW	PSC	Ball	Open	60	Auto	Included	28G6601, 7062-1794



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Hertz	Overload	Cap. Req.	Replaces
A329	1/12	208-230	3200	0.5	1	CW	PSC	Ball	Open	60	Auto	Included	19L1501, 7062-4819



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Hertz	Overload	Cap. Req.	Replaces
A330	1/12	208-230	3200	0.55	1	CW	PSC	Ball	Open	60	Auto	Included	69M3301, 97J8201



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A325	1/10	208-230	3200	0.6	1	CW	PSC	Ball	Open	60	Auto	98G8701, 99K5701



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
A331	1/10	460	3200	0.38/0.33	1	CW	PSC	Ball	Open	60	Auto	69M3201, 97J8101



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Cap. Req.	Replaces
G2247	1/6	208-230	1100	1.30	1	CCWLE	PSC	Ball	TE	60	Auto	5M/370V	31L1901



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
82590	115	3000	1.20	1	CWLE	SP	Sleeve	Open	60	Auto	47H12

# OEM DIRECT REPLACEMENTS

## Lomanco



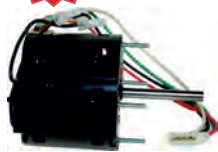
Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Mounting Lug	Replaces
70059	1/10	115	1100	3.40	1	CW	1/2 x 1 5/8	2 1/4	SP	Sleeve	5	Open	Lug	A0416B2059, A0510B2389, A0510B2497



Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation	Note
FB99100	12	5	Discharge	1/2	33	CW	Used with 70059

## Loren Cook

**NEW**



Item ID	Watt	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension	Length Less Shaft	Type	Bearings	Dia.	ENCL.	Mounting	Replaces
90254	5	115	1550	0.25	2	CWSE	5/16 x 2-3/8	2-3/4	PSC	Sleeve	3.3"	OAO	Stud	615254
90255	15	115	1550	0.40	2	CWSE	5/16 x 2-3/8	2-3/4	PSC	Sleeve	3.3"	OAO	Stud	615255



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90220	1/114	115	1500	0.75	2	CW	3/8 x 2 3/4	2 3/8	SP	Sleeve	4.4	Thru Bolt	220/240



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90420	1/23	115	1500	1.50	1	CW	3/8 x 2 3/4	2 5/8	SP	Sleeve	4.4	Thru Bolt	420
90320	1/16	115	1550	2.20	2	CW	3/8 x 2 1/2	2 5/8	SP	Sleeve	4.4	Thru Bolt	320/340



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90520	1/16	115	1200	1.50	1	CW	3/8 x 2 1/4	3	PSC	Sleeve	5.12	Thru Bolt	520

Cap Included



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90620	1/11	115	1500	4.60	2	CW	1/2 x 6 1/4	3	SP	Sleeve	4.4	Lug Mount	620/640

**NEW**



Item ID	HP	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension	Length Less Shaft	Type	Bearings	Dia.	ENCL.	Mounting	Replaces
90E2A	1/8	115	1600	1.70	1	CWSE	1/2 x 3	3-1/2	PSC	Ball	5.63	OAO	Stud	C06E2A



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
90720	1/4	115	1625	3.90	2	CW	1/2 x 6 1/4	3 3/8	PSC	Sleeve	5.12	Lug Mount	720/740

Cap Included

## Magic Chef



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Hertz	Replaces
<b>D1091</b>	1/4	208-230	1075	2.20	1	CCW	1/2 x 2 3/4	4 1/2	PSC	Sleeve	60	350358001

## Manitowoc



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
<b>65001</b>	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002412283
<b>15020</b>	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	002401591, 002412373
<b>65020</b>	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002401591, 002412373



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Diameter	Bearings	Hertz	Cap. Required	Replaces
<b>D1143</b>	1/20	115	1550	0.9	1	CCW	3.3	Ball	60	5MFD/370V	2008243, 71902830
<b>D1137</b>	1/20	208-230	1550	0.34	1	CCW	3.3	Ball	50/60	3MFD/370V	2008253, 71902831



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Diameter	Bearings	Hertz	Cap. Required	Replaces
<b>D1029</b>	1/8	208-230	1350/1620	0.8	1	CW	5	Sleeve	50/60	5MFD/370V	2009653, 71850274



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Diameter	Bearings	Hertz	Cap. Required	Replaces
<b>D1026</b>	1/5	208-230	1050	1.5	1	CW	5	Ball	60	3MFD/370V	2009633, 71870252



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Diameter	Bearings	Hertz	Cap. Required	Replaces
<b>D1031</b>	1/5	208-230	1050	1.8	1	CW	5	Sleeve	50/60	3MFD/370V	2009663, 71870263



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
<b>15041</b>	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	002412353
<b>65041</b>	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	002412353

## McQuay



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D1144</b>	1/25-1/35-1/65	115	1200	1.10-0.90-0.60	CW	3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	BA2H015



# OEM DIRECT REPLACEMENTS

## McQuay



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D1141</b>	1/15-1/25-1/35	115	1000	1.30-1.10-0.90	Double Shaft	5 5/8 x 3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	879-382563B-00
<b>D1140</b>	1/10-1/12-1/15	115	1500	2.20-2.00-1.70	Double Shaft	5 5/8 x 3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	879-382564B-00



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
<b>D1142</b>	1/15	115/230	1500	1.70-0.90	CW	5/16 x 2 1/2	3 1/2	SP	Sleeve	3.3	879-382-562-ZB-00	356

**Notes:**  
356. Has special 3.15" bolt circle

## Mid Continent



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Hertz	Replaces
<b>82357</b>	1/30	115	3000	1.10	1	CWSE	1/4 x 1 1/2	4 3/4	SP	Ball	60	JA1M069NV, 357, 8211915103

## Miller



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>80270</b>	1/50	115/230	3000	0.90/0.45	1	CWLE	SP	Ball	60	303875000

## Nordyne



Item ID	H.P.	Stack Size (In.)	Volts	RPM	Amps	Speeds	Type	Bearings	Replaces
<b>65404</b>	1/100	7/8	120	3000	0.69	1	SP	Ball	903404



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A131</b>	1/50	115	3000	1.1	1	CW	SP	Sleeve	3.3	4MH26 6212850 6217000 7021-10159



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A132</b>	1/50	115	3000	1.1	1	CW	SP	Sleeve	3.3	4MH27 6212850 7021-10274 7021-10493



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A126</b>	1/45	115	3000	1.8	1	CW	SP	Ball	C-Frame	6219500, 7002-3158



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A121</b>	1/45	240	3000	0.5	1	CW	SP	Sleeve	3.3	6217930, 7021-10381



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	ENCL.	Hertz	Bearing	Replaces
<b>66567</b>	1/33	115	3000	0.43	1	CCWSE	PSC	Open	60	Ball	622567

## Nordyne



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A123</b>	1/18	115	3300	1.95	1	CW	SP	Ball	3.3	622064, 7021-11385



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
<b>A122</b>	1/17	115	3000	1.75	1	CW	SP	Sleeve	3.3	6219490, 7021-11227
<b>A124</b>	1/15	115	3000	1.75	1	CW	SP	Sleeve	3.3	6219290, 7021-11379



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Replaces
<b>G2243</b>	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	TE	5M/370V	621865

## Nutone



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
<b>82423K</b>	1/2	120	2650	0.60	1	CW	7/32 x 1 1/2	1 5/8	SP	Sleeve	Open	89423-000	42, 106



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
<b>65100</b>	1/2	120	3000	0.86/0.50	1	CCW	7/32 x 1 5/8	1 5/8	SP	Sleeve	Open	C65878	42, 105



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
<b>65106</b>	5/8	115	3000	0.70	1	CCW	7/32 x 2 3/8	1 3/4	SP	Sleeve	Open	C68627	485



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
<b>65112</b>	5/8	120	3000	0.76	1	CW	7/32 x 1 3/4	1 5/8	SP	Sleeve	Open		104, 105



Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces	Notes
<b>65709</b>	5/8	120	3000	0.88	1	CCW	7/32 x 2 3/8	1 3/4	SP	Sleeve	Open	C53709	108, 485

**Notes:**

42. Includes cord and plug

104. Same as 65100 except mounting screws are on the shaft end

105. Includes A65100FB impeller

106. Assembled with bracket as illustrated

108. Has a one shot overload

485. Includes two prong plug

# OEM DIRECT REPLACEMENTS

## Nutone



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65104	3/4	120	3000	0.74	1	CCW	7/32 x 1 3/4	1 7/8	SP	Sleeve	Open	C66582	107



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65894K	3/4	120	3000	0.90	1	CCW	7/32 x 2 3/8	1 7/8	SP	Sleeve	Open	82229 K5894	42, 106



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65103	7/8	120	3000	0.71	1	CCW	7/32 x 1 1/4	2	SP	Sleeve	Open	C63675	485



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65101	7/8	120	3000	0.86	2	CW	7/32 x 1 5/16	1.97	SP	Sleeve	Open	C52367	110



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65105	7/8	120	3000	0.88	2	CCW	7/32 x 1 7/16	2	SP	Sleeve	Open	C27987	110



Item ID	Stack Size	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim.	Length Less	Type	Bearings	Enclosure	Replaces	Notes
	(In.)						(In.)	Shaft (In.)					
65272	1	120	3000	1.10	1	CCW	7/32 x 1 1/2	2 1/8	SP	Sleeve	Open	C23272	485



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim.	Length Less	Type	Bearings	ENCL.	Replaces	Notes
							(In.)	Shaft (In.)					
82512	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/8	2 1/16	SP	Sleeve	TE	26750, 26761	42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim.	Length Less	Type	Bearings	ENCL.	Replaces	Notes
							(In.)	Shaft (In.)					
82513	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/4	2 1/16	SP	Sleeve	TE	23388, 23405	41, 42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim.	Length Less	Type	Bearings	ENCL.	Replaces	Notes
							(In.)	Shaft (In.)					
40695	1/100	120	1180	0.60	1	CWSE	1/4 x 1 1/8	—	SP	Sleeve	Open	0695B000	529

**Notes:**

41. 1 1/8" Hubs  
 42. Includes cord and plug  
 106. Assembled with bracket as illustrated

107. Has eyelet terminals on leads  
 110. Includes two speed plug  
 485. Includes two prong plug

529. Complete assembly, motor, mounting flange and blower wheel

Nutone



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
82635	1/91	115	1550	0.45	1	CCW	1/4 x 1 1/8	2.09	SP	Sleeve	TE	54123, 54257	42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
80600	1/80	115	3000	0.65	1	CW	1/4 x 2 1/8	2 1/2	SP	Sleeve	Open	16553	41



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
82637	1/75	115	1550	0.63	1	CCW	1/4 x 1 1/8	2	SP	Sleeve	TE	53581	42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
82510	1/70	115	1320	0.85	1	CW	1/4 x 1 1/4	2 1/16	SP	Sleeve	Open	C65073	41, 482



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
40933	1/50	120	1550	1.20	1	CCW	1/4 x 1	1 7/8	SP	Sleeve	Open	86933000, 86933	482



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
82733	1/50-1/80	115	3000	1.00-0.60	2	CW	1/4 x 1 1/4	2 5/8	SP	Sleeve	TE	C26733	42



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
40696	1/45	115	1400	0.86	1	CCWLE	1/4 x 1	—	SP	Sleeve	Open	0696B000, 86322	529



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Replaces	Notes
82621	1/10	115	1550	3.80	1	CCW	5/16 x 1 1/2	3 3/4	SP	Ball	Open	32997, 67176	



Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
A65900	1/4	5 3/4	2	D Shape	59000A000



Item ID	Bore (In.)	Diameter (In.)	Bore	Replaces
A65100FB	7/32	4 9/16	D Shape	68920

Notes:  
41. 1 1/8" Hubs  
42. Includes cord and plug

482. Two prong plug and cord attached  
529. Complete assembly, motor, mounting flange and blower wheel

# OEM DIRECT REPLACEMENTS

## Oasis



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Enclosure	Hertz	Mounting	Replaces
<b>10037</b>	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	TE	60	Double Foot Pads	027354-026, 027354-037
<b>10038</b>	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	TE	60	Double Foot Pads	027354-038

## Penn Ventilator



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>OPV400206</b>	1/40	115	1050	1.10	CCWLE	3/8 x 2 1/4	3	SP	5	Open	D340, Z-6



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>OPV343</b>	1/40	115	1550/1050	1.40/0.60	CCWLE	1/3 x 5 3/4	2 1/4	SP	3.3	Open	56343-0, JA2M414-T



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>OPV747</b>	1/7-1/11-1/25	115	1550/1300/1050	2.50/2.10/1.60	CCWLE	1/2 x 2 1/2	4 1/4	PSC	5	Open	63747-0, DE2F7085-T



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>OPV748</b>	1/6-1/12-1/20	115	1550/1300/1050	2.10/1.90/1.40	CCWLE	1/2 x 2 3/5	4 1/4	PSC	5	Open	63748-0, DE2F7088-T



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>D342</b>	1/15	115	1050	2.30	CW	3/8 x 2 1/2	2 5/8	SP	5	Open	7151-3081, 7151-3565



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>D0746</b>	1/12	115	1550/1300	1.50/0.90	CCWLE	1/3 x 3 1/3	3 5/6	PSC	3.3	Open	63746-0, JE2H057-T



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
<b>OPV346</b>	1/4	115	1550/1050	3.60/2.50	CCWLE	1/3 x 5 1/3	4 2/3	PSC	3.3	Open	56346-0, JE2K007-T



## Reznor



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Replaces
66505	1/10	115/ 208/ 230	3000	1.40/0.80	1	Rev.	5/16 x 3 1/4	4 1/4	PSC	Ball	Open	3.3	CW175-40069, CCW505-43424, CCW175-40070, 7162-0293, 7162-0348, 7162-0294, CCW77162-0311, CCW175-43846, CW7162-0224, CW36860



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Replaces
82384	1/8	115	1075	2.60	1	Rev.	1/2 x 2 7/8	3 7/8	PSC	Sleeve	TE	4.97	170-45888, 319P384



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Replaces
D461	1/8	480	3200	0.32	1	CCW	5/16 x 3 1/3	4 1/4	PSC	Sleeve	TE	3.3	43762, 7162-0396



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Replaces
40066	1/6	115	1075	2.40	1	Rev.	1/2 x 3 3/8	4 1/2	PSC	Ball	TE	5 5/8	55682



Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Replaces
BW43425	3.75	3.5	CCW Hub End	5/16	3600	43525

## Rheem



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
PF12406	120	40VA	24	Foot	Wire Lead	46-24124-06



Item ID	Primary Voltage	Secondary Rating	Output Option	Mounting Option	Connection	Replaces
PF90501	208/240	40VA	24	Foot	1/4" QC Term.	46-101905-01



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
PF85602	120	50VA	24	Foot	Wire Lead	46-102856-02



Item ID	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Type	Bearings	ENCL.	Replaces
21964K	208-230	3000	0.25	1	CW	1/4 x 1 1/2	SP	Sleeve	Open	51-21964-11



Item ID	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Type	Bearings	ENCL.	Replaces
K628	208-230	3000	0.25	1	CW	1/4 x 1 1/2	SP	Sleeve	Open	51-21964-01

Notes: K628 and 21964K: Stack Size - 3/4"

# OEM DIRECT REPLACEMENTS

## Rheem



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>66781</b>	1/50	115	3000	0.60	1	CW	PSC	Ball	Open	70-101087-81, 70-21496-83, 70-24157-03, 7021-11559



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A139</b>	1/55	115	3000	0.95	1	CW	SP	Sleeve	Open	7021-7577



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A090</b>	1/50	115	3000	1.10	1	CW	SP	Sleeve	Open	74-70-21496-01, 7021-5239, JAIM102



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A240</b>	1/50	115	3000	1.1	1	CCW	SP	Sleeve	Open	7021-8183, 70-21496-00



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A242</b>	1/50	115	3400	1.36	1	CW	Open	SP	Sleeve	3.3	7021-7150, 70-22436-01



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A243</b>	1/50	115	3400	1.36	1	CW	Open	SP	Sleeve	3.3	7021-7790, 70-22436-02



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A247</b>	1/40	115	3250/3800	0.95	2	CW	Open	PSC	Sleeve	3.3	7062-5519



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	ENCL.	Replaces
<b>82182</b>	1/30	460	3300	0.35	1	CW	SP	Open	70-23641-82



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>66847</b>	1/30	120	3000	1.70	1	CCWLE	Open	SP	Ball	C-Frame	117104-01, 117847-07, 70-22838-82, 70-24157-03



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A086</b>	1/25	115	3200	1.3	1	CW	Open	SP	Sleeve	3.3	7021-5990, 7021-5853

# OEM DIRECT REPLACEMENTS

## Rheem



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>82641</b>	1/25	208-230	3200	0.62	1	CW	Open	SP	Sleeve	3.3	70-23641-81, 70-23563-02, 70-23586-01, 70-23586-81



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A241</b>	1/25	208-230	3200	0.62	1	CW	Open	SP	Sleeve	3.3	70-23641-81



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A246</b>	1/20	115	3400/ 2400	0.85	2	CW	Open	PSC	Ball	3.3	70-24206-01, 7062-3925



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A136</b>	1/20	115	3450	0.75	1	CW	Open	PSC	Sleeve	3.3	7062-3861



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A142</b>	1/20	115	3450	0.7	1	CW	Open	SP	Sleeve	3.3	7062-2513, 416673-00003, 7062-1881



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A244</b>	1/20	208-230	3300	0.85	1	CCW	Open	SP	Ball	3.3	7021-6967, 70-42241-01



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	ENCL.	Type	Bearings	Dia. (In.)	Replaces
<b>A245</b>	1/15	208-230	3000	.95/.85	1	CW	Open	SP	Ball	3.3	7021-7490, 70-42278-02



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length		Type	Bearings	Dia. (In.)	Replaces
								Less Shaft (In.)					
<b>80825</b>	1/8	208-230	825	1.00	1	Rev.	1/2 x 6 1/2	3.94		PSC	Ball	5 5/8	21276-02, 21276-01, 512076-01
<b>60825</b>	1/6	208-230	825	1.20	1	Rev.	1/2 x 6 1/2	4 1/4		PSC	Ball	5 5/8	51-20760-11, 51-20763-01, 51-20763-02



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft Dim. (In.)	Length Less		Type	Bearings	Dia. (In.)	Replaces
							Shaft (In.)					
<b>63382</b>	1/5	208-230t	1075	1.30	Rev.	1/2 x 4 3/8	3 3/4		PSC	Ball	5 5/8	51-21853-82, KA55HXMT-6557, 51-20672-01, 51-20673-01, 51-20674-01, 51-20675-01, 51-20679-01, 51-20680-01, 51-20681-01, 51-20682-01, 51-21826-01

# OEM DIRECT REPLACEMENTS

## Rheem



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D743</b>	1/5	208-230	1075	1.20	Rev.	1/2 x 6	3 1/2	PSC	Sleeve	5 5/8	95-3154



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D2840</b>	1/5	208/230	1075	1.30	CW	1/2 x 4 1/8	3 3/4	PSC	Sleeve	5 5/8	51-21853-82



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>ORM10206V1</b>	1/5	208-230	1075	1.40	Reversible	1/2 x 4 1/4	3 7/8	PSC	Sleeve	5 5/8	KA55HXMPT-6557, 51-20672-01, 51-20673-01, 51-20674-01, 51-20675-01, 51-20679-01, 51-20680-01, 51-20681-01, 51-20682-01, 51-21826-01, 51-21827-01, 51-21828-01, 51-21829-01, 51-21830-01, 51-21831-01



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Diameter (In.)
<b>D742</b>	1/4	208-230	1075	2.10	Rev.	1/2 x 6	4	PSC	Sleeve	5 5/8



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D2834</b>	1/3	208/230	1075	2.00	CW	1/2 x 4 1/4	4	PSC	Sleeve	5 5/8	51-21853-83



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D2862</b>	1/2	208-230	1075	4.00	Rev.	1/2 x 3	6 1/2	PSC	Ball	5 5/8	5KCP37PN244BS, MTG3041



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>ORM1056</b>	1/2	115	1075	5.70	CWSE	1/2 x 3 1/2	4 5/8	PSC	Sleeve	5 5/8	51-22873-01
<b>ORM1076</b>	3/4	115	1075	10.5	Rev.	1/2 x 5	5 5/8	PSC	Sleeve	5 5/8	51-22859-01



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
<b>D2850</b>	1 3/4	208-230/460 (60Hz) 200/380-415 (50Hz)	1125/ 950	4.60/ 2.30	CW	1/2 x 3.45	6 1/2	PSC	Ball	5 5/8	5KCP39SFL153DS, MOT05717, X70671180017, X70670706010, MOT03771
<b>D2851</b>	1 3/4	208-230/460 (60Hz) 200/380-415 (50Hz)	1125/ 950	4.60/ 2.30	CW	1/2 x 3.45 Keyed	6 1/2	PSC	Ball	5 5/8	5KCP39SFL153DS, MOT09188, MOT09192, X7067165301, X70671656010,

## Russell Coil



Item ID	Stack Size		Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (In.)	Type	Bearings	Enclosure	Hertz	Replaces
	(In.)												
67154	3/4		120	3000	0.55	1	CCW	1/4 x 5/8	SP	Sleeve	Open	60	102249-005

## Scotsman



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension	Length Less	ENCL.	Mounting	Hertz	Replaces
						(In.)	Shaft (In.)				
15001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	18-7200-01
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	18-7200-01



Item ID	Watts	Volts	RPM	Amps	Rot.	Shaft Dim.	Length Less	ENCL.	Mounting	Hertz	Replaces
						(In.)	Shaft (In.)				
15040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	18-5105-11
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	18-5105-02
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-11
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-02

## Skymark



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
A251	1/35	208-230	3000	1.10	1	CCW	SP	Sleeve	Open	MTR136PK, 7021-9136



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
82136	1/35	208-230	3000	0.56	1	CCW	SP	Sleeve	Open	MTR136PK

## State Ind.



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
W9	1/60	115	3000	0.95	1	CW	SP	Sleeve	OFC	0012400500



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
W10	1/20	115	3400	1.80	1	CCW	SP	Sleeve	OFC	0012400540



# OEM DIRECT REPLACEMENTS

## Sterling Radiator Co.



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Dia. (In.)	Mounting	Replaces
40242	1/20	115	1050	2.00	1	CW	3/8 x 3	3.19	SP	Sleeve	TE	5	Stud	7151-0103

## Sub Zero



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Material	Hertz	Mounting	Replaces	Notes
65740	2.3	115	130	0.2	CWLE	1/4 x 1/2	2.48	Aluminum	50/60	Double Foot Pads	4200740	Pin terminals

## Tappan



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces	
A073	1/40	115/230	3000	0.7/0.35	1	CCW	SP	BALL	3.3	82932 11429-32 HQ6D1023UN	8251560133 4MH13

## Tecumseh



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
15020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	60	810M035A29
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	50/60	810M035A29
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	60	810M035A21 810M035A28
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	SP	Unit	TE	50/60	810M035A21 810M035A28



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	ENCL.	Hertz	Replaces
15045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	Open	60	810M050A62
65045	50	230	1500	0.85	CCW	5/16 x 2	4	SP	Unit	Open	50/60	810M050A62



Item ID	HP	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Hertz	Replaces
OTC6004	1/20	230	1500	1.11	CCWSE	5/16 x 2 1/2	3 1/16	SP	Sleeve	5	Open	50/60	8105037B01
OTC6001	1/15	230	1500	1.30	CCWLE	5/16 x 2 3/4	3 1/16	SP	Sleeve	5	Open	50/60	8105050A99



Item ID	HP	Volts	RPM	Amps	Rotation	Shaft Dim. (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Hertz	Replaces
OTC1862	1/4	230	1625	1.90	CWLE	1/2 x 2 3/4	4 3/8	PSC	Ball	5 5/8	Open	50/60	TFM1862, 8330, KA55HXKGD8330
OTC1864	1/4	460	1625	0.95	CWLE	1/2 x 2 3/4	4 3/8	PSC	Ball	5 5/8	Open	50/60	TFM1864, 8331, KA55HGE8331

## Tradewinds



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
<b>82324</b>	1/25	115	1550	2.10	CWLE	1 7/8 x 5/16 x 1 7/8	3	SP	Sleeve	3.3	19-09-215, 324	41

Notes:  
41. 1 1/8" Hubs

## Trane



Item ID	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Replaces		
<b>66787</b>	120	3000	1.20	1	CCWLE	SP	Ball	BLW473 21C138126	210330673 21D330673	210340125 787P01

Notes:  
111. Includes special plug



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Replaces
<b>A265</b>	1/125	115	3000	0.75	2	CW	SP	Ball	D342078P02 7002-3444
<b>A266</b>	1/125	115	3000	1.0	2	CW	SP	Ball	D342078P04 7002-3445
<b>A267</b>	1/125	115	3000	1.4	2	CW	SP	Ball	D342078P05 D342078P06 7002-3446



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
<b>A279</b>	1/125	115	3000	0.75	2	CW	SP	Ball	D341663P04 7002-3275 D341095P04 7002-2531



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
<b>A264</b>	1/120	115	3000	0.75	2	CW	SP	Ball	D342078P01, D342079P01, 7002-3443



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces	
<b>A146</b>	1/100	115	3000	1.0-0.35	2	CW	SP	Sleeve	7021-7986 X3804276047	7021-8925 7002-2531



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>66362</b>	1/100	115	3000	1-0.35	2	CW	SP	Sleeve	Open	7021-8925 BLW00362



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
<b>A370</b>	1/100	208-230	2920	0.18	2	CCW	PSC	Ball	C664099P01, 7062-3918



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces	
<b>A194</b>	1/80	115	3000/1950	1.0/0.5	2	CW	SP	Sleeve	X38020420017 7021-9561	D330900P01, 7021-9511

# OEM DIRECT REPLACEMENTS

## Trane



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
A197	1/70	33-110	1500/4700	1.0	VAR	CW	3 PHASE	Ball	X38010571010, D342097P01, 7092-0238



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces	
A069	1/70	208-230	3000	0.5	1	CCW	SP	Sleeve	38040252, X3804025202	7021-10259, X38040252017



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
A367	1/60	115	3000	0.95	2	CW	SP	Sleeve	21D340096P02, 7021-8051, 7021-9011



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
A276	1/55	115	3000	1.0	1	CW	SP	Sleeve	D330757P01, 7021-9011



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces		
A143	1/50	115	3000	0.95	1	CW	SP	Sleeve	210330673, R7-RFB143	210340125, 7021-8428	X38040305017, D330809P01



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces
A278	1/50	115	3000	1.4	2	CW	SP	Ball	D341095P02, 7002-2530



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Replaces	
A198	1/45	115	3000	1.75	1	CW	SP	Ball	D342077P01	7058-0259
A199	1/45	115	3000	1.75	1	CW	SP	Ball	D342077P02	7058-0260
A268	1/45	115	3000	1.4	2	CW	SP	Ball	D342078P06	7002-3447
A260	1/45	115	3250	1.0	1	CW	SP	Ball	D342077P03	
A261	1/45	115	3250	1.0	1	CW	SP	Ball	D342077P04	7058-0262
A262	1/45	115	3250	1.0	1	CW	SP	Ball	D342077P05	7058-0263
A263	1/45	115	3250	1.0	1	CW	SP	Ball	D342077P06	7058-0264



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A369	1/45	208-230	2800	0.34	2	CCW	PSC	Ball	60	C663946P01, 7062-3915



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A361	1/42	115	3000	1.6	1	CW	SP	Ball	60	D330787P01, 7002-2558

## Trane



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>A362</b>	1/42	115	3000	1.6	1	CW	SP	Ball	60	D341663P05, 7002-3273



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>82057</b>	1/40	115	3000	1.00	1	CCWSE	SP	Ball	60	X38040253057, 7021-8569



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>A192</b>	1/40	115	3000	1.00	1	CCW	SP	Ball	60	7021-8569, X38040253057



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>A075</b>	1/40	230	3000	0.4	1	CCW	SP	Ball	60	38050005, X38050005007



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces	
<b>82253</b>	1/35	208/240	3000	0.6/0.5	1	CCW	SP	Ball	60	21C729631P1, 7021-10286	C661452P01, 7021-7833



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces	
<b>A150</b>	1/35	208-230	3000	0.50	1	CCW	SP	Sleeve	60	C661452P01, 21C729631P1	X38080029010, BLW-451



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>A269</b>	1/35	208-230	2500/3000	0.58/0.6	1	CCW	SP	Ball	50/60	X38040363010, 7021-11054



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
<b>A373</b>	1/35	208-230	3000	0.6	1	CCW	SP	Ball	60	C665662P01, 7021-9396

# OEM DIRECT REPLACEMENTS

## Trane



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A193	1/35	208-240	3480	0.59/0.5	1	CCW	SP	Ball	60	X38040050010, 7021-8591



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A360	1/25	115	2700	1.0	2	CW	SP	Ball	60	D341663P01, D341095P01, 7002-2532 7002-3274



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A196	1/25	115	3200	1.35	1	CW	SP	Sleeve	60	X38040313060, X38040313027, D342094P02



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A274	1/24	208-230	3500	0.28	1	CW	PSC	Ball	50/60	X38040311-01, 7062-3973



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A368	1/20	115	3200	0.8	2	CW	PSC	Sleeve	60	D340623P01, 7062-3782



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A130	1/20	115	3450	0.7	1	CW	PSC	Sleeve	60	X38040313037, D330757P035, D330757P03, 21D340365P03



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A271	1/18	208-230	3500	0.62	2	CW	PSC	Ball	50/60	X38040308-01, 7062-3969



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Hertz	Replaces
A195	1/16	115	3400	1.75	1	CW	SP	Ball		X38040313070, D342094P03, D330757P03



# OEM DIRECT REPLACEMENTS

## Trane



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Replaces
<b>A191</b>	1/15	208-230	3000	0.8	1	CCW	SP	Sleeve	X38040251017, 7021-6683



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Hertz	Replaces
<b>A270</b>	1/15	208-230	3350/2800	0.42/0.5	2	CCW	PSC	Ball	50/60	X38040369010, 7062-5033



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	Hertz	Replaces
<b>A272</b>	1/12	208-230	3500	0.65	2	CW	PSC	Ball	50/60	X38040309-01, 7062-3971
<b>A273</b>	1/8	208-230	3500	0.62	2	CW	PCS	Ball	50/60	X38040310-01, 7062-3972



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Replaces
						Dimension (In.)	Length Less Shaft (In.)				
<b>D895</b>	1/8	208-230	1650	0.80	CW	1/2 x 1 1/2	3 1/4	PSC	Sleeve	5 5/8	5KCP39BGR426S, MOT6363



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>G2249</b>	1/8	208-230	1075	0.75	CCW	1/2 x 2 3/4	3 7/8	PSC	Ball	5	5M/370V	D151316P01



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>OTR4513</b>	1/8	208-240	1550	0.80-0.90	CCWLE	1/2 x 3 1/8	3 3/8	PSC	Sleeve	5	Included	5KSP29DK1728S, MOT-3438



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>41728</b>	1/8	230	1550	1.10	CWSE	1/2 x 3	3 1/8	PSC	Sleeve	5	Included	WW94X236SP, WW94X936PSC, MOT-3438



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>D1050</b>	1/8	230	1550	1.10	CW	1/2 x 3	3 1/4	PSC	Sleeve	5	Included	WW94X236SP, WW94X936PSC

# OEM DIRECT REPLACEMENTS

## Trane



Item ID	H.P.	Volts	RPM	Amps	Rotation	Length Less		Type	Bearings	ENCL.	Hertz	Replaces
						Shaft Dim. (In.)	Shaft (In.)					
<b>2S004</b>	1/6	208-230	1625	1	CCW Lead End			PSC	Ball	TEAO	60	5KCP29BCA427 5KCP29BCA427S 5KCP29BA010AS



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>G2247</b>	1/6	208-230	1100	1.30	CCWLE	1/2 X 2 3/4	3 7/8	PSC	Ball	5	5M/370V	D151276P01
<b>G2245</b>	1/4	208-230	1075	1.70	CCW	1/2 x 2 3/4	3 7/8	PSC	Ball	5	7.5M/370V	D151060P01 D151269P01 D151270P01



Item ID	H.P.	Volts	RPM	Amps	Rot.	Shaft		Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
						Dimension (In.)	Length Less Shaft (In.)					
<b>D2853</b>	1/2-1/3	208-230/460	1100/925	2.5-1.9/1.4-1.3	Rev.	1/2 x 4	6.05	PSC	Ball	5 5/8	10M/440V	X70670709-01 X70670710

## Tyler



Item ID	Watts	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less		Type	Enclosure	Mounting	Hertz	Replaces
						Shaft (In.)						
<b>15990</b>	9	115	1550	0.23	1/4 threaded	2 1/2		PSC	TE	Rear mounting	50/60	52179990

**Notes:**  
Special reversing plug for Tyler freezer applications.

## Ventline



Item ID	Stack Size		RPM	Amps	Speeds	Shaft Dim.		Type	Bearings	ENCL.	Hertz	Replaces	Notes
	(In.)					Rot.	(In.)						
<b>65110K</b>	1/2	120	3000	0.41	1	CW	Splined	SP	Sleeve	Open	60	J238-050-5330	101

**Notes:**  
101. Includes 6 1/2" Fan Blade. Used on Ventline found in many Mobile Homes

## Whalen



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dim.		Type	Bearings	Enclosure	Dia. (In.)	Replaces
						(In.)	Length Less Shaft (In.)					
<b>40485</b>	1/20-1/35	115	1050	1.0	Reversible	1/2 x 2 3/4	3 1/4	PSC	Ball	Open	4.68	DA3D060 DA3D061

## Whirlpool



Item ID	Stack Size		Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Replaces	Notes
	(In.)											
65328	1/2		120	3000	0.32	1	CW	Metal Hub	SP	Sleeve	482469	112



Item ID	Stack Size		Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Replaces	Notes
	(In.)											
65327	1/2		120	3000	1.50	1	CCW	Metal Hub	SP	Sleeve	482468	112



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less		Type	Bearings	Dia. (In.)
								Shaft (In.)				
82516	1/15	115	1550	2.50	3	CCWLE	3 1/4 x 5/16 x 3 1/4	3 1/4		SP	Sleeve	3.3

**Notes:**  
112. Motor Manufactured with Howard Industries Tooling. All Metal Hubs.

## Williamson



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
A080	1/45	115	3000	1.1	1	CW	SP	Sleeve	3.3	D6996403, D6996404, 7021-10263



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Dia. (In.)	Replaces
A118	1/15	115	3000	1.8	1	CW	SP	Sleeve	3.3	7021-6999, 7021-7042

## York



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
A231	1/75	115	3000	1.3	2	CW	SP	Sleeve	Open	024-27653-000, 7021-10213, 7021-10675



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
A083	1/60	230	3000	0.8	1	CCW	SP	Ball	Open	026-16323-0000, 026-20224-000, 026-20224-700

**NEW**



Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Enclosure	Hertz	Replaces
82702	1/50	115	3000	1.2	CCWSE	SP	Open	60	373-10337-702 7021-8612

# OEM DIRECT REPLACEMENTS

## York



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A063</b>	1/56	230	3000	0.6	1	CCW	SP	Ball	Open	026-22239-000, 026-22234-700, 7021-10257



Item ID	H.P.	Volts	RPM	Amps	Type	Enclosure	Bearing	Hertz	Replaces
<b>66067</b>	1/30	115	3000	1.13	SP	Open	Ball	60	326-32067-000



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A144</b>	1/40	208-230	3000	0.5	1	CW	SP	Sleeve	Open	7021-6770, 024-24115-014



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A221</b>	1/40	208-230	3000	0.55	1	CCW	SP	Sleeve	Open	026-30614-700, 026-31221-700, 026-32067-700



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>82018</b>	1/40	208-230	3000	0.78	1	CCWSE	SP	Ball	Open	7121-10621, 024-24115-018, S1-02424115018



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A222</b>	1/35	115	3000	1.05	1	CCW	SP	Ball	Open	026-32067-000, 026-32067-700, 7021-7481



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A226</b>	1/35	115	3000	1.7	1	CW	SP	Ball	—	024-34490-000, 7058-0266



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A154</b>	1/30	115	3000	1.2	1	CW	SP	Sleeve	Open	024-27519-000, 7021-10300, 7021-9428

## York



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>82999</b>	1/30	208-230	3200	0.65	1	CW	SP	Sleeve	Open	026-33999-001, 7021-10096, 7021-9656



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A223</b>	1/30	208-230	3200	0.64	1	CW	SP	Sleeve	Open	026-33999-001, 7021-10096, 7021-9656



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A229</b>	1/25	115	3000	1.75	1	CW	SP	Ball	—	024-32052-000, 024-32085-000, 7058-0267



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A228</b>	1/25	115	3000	2.0	1	CW	SP	Ball	—	024-31957-000, 024-32085-000, 7002-3285, 7002-2941



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A137</b>	1/25	115	3450	0.70	1	CW	PSC	Sleeve	Open	024-25007-000, 024-25007-700, 024-25057-000



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A165</b>	1/25	115	3450	0.70	1	CW	PSC	Ball	Open	024-25960-000, 7062-3958



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A227</b>	1/25	115	3450	0.7	1	CW	PSC	Sleeve	Open	024-27641-000, 373-20717-001



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces	
<b>A220</b>	1/20	115	3000	1.6	1	CW	SP	Ball	Open	026-30887-700, 026-27510-700, 026-27510-000	026-30887-000, 7021-7217, 7021-5838



# OEM DIRECT REPLACEMENTS

## York



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Type	Bearings	ENCL.	Replaces
<b>A168</b>	1/20	115	3450	0.7	1	CW	PSC	Ball	Open	20000101, 7062-1881, 7062-3136



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A230</b>	1/20	115	3450	0.8	2	CW	PSC	Sleeve	Open	024-31953-000, 7021-5094



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A224</b>	1/18	115	3450	0.8	2	CW	SP	Sleeve	Open	024-27654-000, 7062-4743, 7062-5048



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A225</b>	1/15	115	3200	2.25	1	CW	SP	Ball	Open	024-34558-000, 17503, 7021-11577, 7021-11830



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>A234</b>	1/12	208-230	3200	0.5	1	CW	PSC	Ball	Open	026-39532-000, 7062-5155, 7062-5267



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
<b>G2248</b>	1/8	208-230	1075	0.86	1	CWLE	SP	Sleeve	TEAO	024-27551-000

**NEW**



Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Replaces
<b>BW16626</b>	3.82	2.05	CW	3/8	3600	026-32626-700
<b>BW16623</b>	4	1	CCW	1/4	3600	026-32623-700 S1-02632623700

Notes:  
stainless steel

**NEW**



Item ID	Diameter	Replaces
<b>A60459</b>	11 Bolt Circle	York 326-31459-000 York 02626372000, York 37308073700, York 3730807300

# APPLICATION MATTERS

WHEN YOU NEED A COMPRESSOR TO SATISFY A SPECIFIC APPLICATION, WE HAVE THEM WITHIN YOUR REACH.

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BRISTOL  
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From water coolers to industrial refrigeration systems;  
from residential AC to commercial rooftops -  
we have the perfect compressor to accompany a range of specific applications.

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in the industry, and the cross-referencing support to back you up.

# COOLING SOLUTIONS | Reciprocating Compressors

## Packard AC Compressors Offering



Nominal H.P. (Tons)	1/2	3/4	1	1.25	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	12	13	22
R22 Reciprocating	15500 to 253300 BTU																		
R410A Reciprocating	13000 to 50300 BTU																		
R22 Scroll	21500 to 185474 BTU																		
R410A Scroll	15200 to 121602 BTU																		

## Bristol HTR Series Compressors



### Features

- Trane Drop-in Replacement
- Approved for use with R22 and R407C
- Includes Wiring Harness
- Charged with POE Oil



Item ID	Refrigerant	Nominal H.P.	Volts-Phase-Hertz	Nominal Capacity BTU @ ARI	Foot	Discharge Rotolock	Suction Rotolock	CCH
HTRB183ABCS	R22/R407C	1 1/2	208/230-1-60	17800	Triangular	1.00 - 14 THD	1.25 - 12 THD	No
HTRB253ABCS	R22/R407C	2	208/230-1-60	23000	Triangular	1.00 - 14 THD	1.25 - 12 THD	Optional
HTRJ243ABCT	R22/R407C	2	208/230-1-60	23300	Triangular	1.25 - 12 THD	1.75 - 12 THD	Optional
HTRJ303ABCT	R22/R407C	2 1/2	208/230-1-60	29700	Triangular	1.25 - 12 THD	1.75 - 12 THD	Optional
HTRJ363ABCT	R22/R407C	3	208/230-1-60	35500	Triangular	1.25 - 12 THD	1.75 - 12 THD	Optional

## Bristol Residential Heat Pump And AC Reciprocating Compressors



H22J

H22A

### Features

- Single phase and three phase
- Designed for easy drop in installation in air conditioning and heat pump applications
- Quick connect wiring connections
- Direct replacement compressors for OEM applications
- Compressors come with internal high pressure relief valve and internal linebreak motor protection
- Compressors come completely dehydrated, fully oil charged with mounting hardware and terminal cover

Item ID	Nominal H.P.	Volts-Phase-Hertz	Nominal Cap. (Btu)	Foot (In.)	Discharge I.D. (In.)	Suction I.D. (In.)	CCH	Replaces		
								Tecumseh	Copeland	Bristol
<b>Bristol R22 Series with mineral oil</b>										
H2EB18SABCA	1 1/2	208/230-1-60	17600	7.5 x 7.5	3/8	5/8	NO	AW*F5519	CR18K	H29B18UABCA
H2EB18SABCB	1 1/2	208/230-1-60	17600	4.8 x 8	3/8	5/8	NO	NA (rectangle Foot Mount)	NA (rectangle Foot Mount)	H23B18UABCB
H2EB223ABCA	2	208/230-1-60	21800	7.5 x 7.5	3/8	5/8	NO	AW*5522	CR22K	H29B22UABCA
H2EB24SABCA	2	208/230-1-60	23600	7.5 x 7.5	1/2	3/4	NO	AW*5524	CR24K	H29B24UABCA
H2EB24SABCB	2	208/230-1-60	23600	4.8 x 8	3/8	5/8	NO	NA (rectangle Foot Mount)	NA (rectangle Foot Mount)	H23B24UABCB
H2EB28SABCA	2 1/2	208/230-1-60	28300	7.5 x 7.5	1/2	3/4	NO	AW*5528	CR28K	H29B28UABCA
H2EB283ABCB	2 1/2	208/230-1-60	28300	4.8 x 8	3/8	5/8	NO	—	—	H23B28UABCB
H2EB32SABCA	2 1/2	208/230-1-60	31500	7.5 x 7.5	1/2	3/4	NO	AW*5532	CR32K	H29B32UABCA
<b>Bristol R22, R407C with POE oil - Allows for the use of POE or mineral oil based refrigerants</b>										
H22J153ABCAP	1 1/4	208/230-1-60	15500	7.5 x 7.5	1/2	3/4	YES	AW*5515	CR16K	H22J15BABCA
H22J183ABCAP	1 1/2	208/230-1-60	18300	7.5 x 7.5	1/2	3/4	YES	AW*F5518	CR18K	H22J18BABCA
H22J223ABCAP	2	208/230-1-60	22600	7.5 x 7.5	1/2	3/4	YES	AW*5522	CR22K	H22J22BABCA
H22J253ABCAP	2	208/230-1-60	24200	7.5 x 7.5	1/2	3/4	YES	AW*5524	CR24K	H22J25BABCA
H22J293ABCAP	2 1/2	208/230-1-60	28800	7.5 x 7.5	1/2	3/4	YES	A*5528	CR28K	H22J29BABCA
H22J333ABCAP	2 1/2	208/230-1-60	31900	7.5 x 7.5	1/2	3/4	YES	AW*5532	CR32K	H22J33BABCA
H22J363ABCAP	3	208/230-1-60	35700	7.5 x 7.5	1/2	3/4	YES	AV*5535	CR35K, CR36K	H22J36BABCA
H22J383ABCAP	3	208/230-1-60	37800	7.5 x 7.5	1/2	3/4	YES	AV*5538	CR38K	H22J38BABCA
H22J383DBLAP	3	208/230-3-60	37500	7.5 x 7.5	1/2	3/4	YES	AV*5538	CR38K	H22J383DBLA
H22J383DVBAP	3	380/460-3-60	37500	7.5 x 7.5	1/2	3/4	YES	AV*5538	CR38K	H22J383DBVA
H22J413DBEAP	3 1/2	460-3-60	40400	7.5 x 7.5	1/2	3/4	YES	AV*5542	CR41K	H22J413DBEA
H22J413DBLAP	3 1/2	208/230-3-60	40500	7.5 x 7.5	1/2	3/4	YES	AV*5542	CR41K	H22J413DBLA
H22J413ABCAP	3 1/2	208/230-1-60	40900	7.5 x 7.5	1/2	3/4	YES	AV*5542	CR41K	H22J41BABCA
H22J443DBDAP	4	208/230-3-60	44100	7.5 x 7.5	1/2	3/4	YES	AV*5546	CR47K	H22J443DBDA
H22J443DBEAP	4	460-3-60	44100	7.5 x 7.5	1/2	3/4	YES	AV*5545	CR47K	H22J443DBEA
H22J443ABCAP	4	208/230-1-60	44100	7.5 x 7.5	1/2	3/4	YES	AV*5546	CR47K	H22J44BABCA
H22A503ABCAP	4	208/230-1-60	49000	7.5 x 7.5	1/2	7/8	YES	—	—	H22A503ABCA
H22A543ABCAP	4 1/2	208/230-1-60	53400	7.5 x 7.5	1/2	7/8	YES	AV*5555	CR53K	H22A543ABCA
H22A543DBEAP	4 1/2	460-3-60	53400	7.5 x 7.5	1/2	7/8	YES	AV*5555	CR53K	H23A543DBEA
H22A543DBLAP	4 1/2	208/230-3-60	53400	7.5 x 7.5	1/2	7/8	YES	AV*5555	CR53K	H22A543DBLA
H22A563DBLAP	5	208/230-3-60	55600	7.5 x 7.5	1/2	7/8	YES	AV*5558	—	H22J563DBLA
H22A583ABCAP	5	208/230-1-60	57100	7.5 x 7.5	1/2	7/8	YES	AV*5558	CRP5-0450	H22A583ABCA
H22A583DBEAP	5	460-3-60	58400	7.5 x 7.5	1/2	7/8	YES	AV*5558	CRN5-0500	H22A583DBEA
H22A623ABCAP	5	208/230-1-60	60800	7.5 x 7.5	1/2	7/8	YES	AV*5558	CR60K	H22A623ABCA
H22A623DBEAP	5	460-3-60	60800	7.5 x 7.5	1/2	7/8	YES	AV*5558	CR60K	H22A623DBEA
H22A623DBLAP	5	208/230-3-60	60800	7.5 x 7.5	1/2	7/8	YES	AV*5558	CR60K	H22A623DBLA
H29A723DBLAP	6	208/230-3-60	72400	7.5 x 7.5	1/2	7/8	YES	—	—	H29A723DBLA

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Bristol Residential Heat Pump And AC Reciprocating Compressors



### Features

- Single phase and three phase
- Designed for easy drop in installation in air conditioning and heat pump applications
- Quick connect wiring connections
- Direct replacement compressors for OEM applications
- Compressors come with internal high pressure relief valve and internal linebreak motor protection
- Compressors come completely dehydrated, fully oil charged with mounting hardware and terminal cover

**Expanded Line!**

Item ID	Nominal H.P.	Volts-Phase-Hertz	Nominal Cap. (Btu)	Foot (In.)	Discharge I.D. (In.)	Suction I.D. (In.)	CCH	Replaces		
								Tecumseh	Copeland	Bristol
<b>Bristol R410A Series</b>										
H82J13ABCA	1	208/230-1-60	13000	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J153ABCA	1 1/4	208/230-1-60	14700	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J18BABCA	1 1/2	208/230-1-60	18100	7.5 x 7.5	1/2	3/4	YES	—	—	H8*J18*ABCA
H82J22BABCA	2	208/230-1-60	22300	7.5 x 7.5	1/2	3/4	YES	—	CP12K8E-PFV	H8*J22*ABCA
H82J28BABCA	2 1/2	208/230-1-60	28100	7.5 x 7.5	1/2	3/4	YES	—	CP18K8E-PFV	H8*J28*ABCA
H82J32BABCA	3	208/230-1-60	32200	7.5 x 7.5	1/2	3/4	YES	—	CP18K8E-PFV	H8*J31*ABCA
H82J40BABCA	3 1/2	208/230-1-60	39700	7.5 x 7.5	1/2	3/4	YES	—	CP25K8E-PFV	H8*J38*ABCA
H82J443ABCA	4	208/230-1-60	44000	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J443DBLA	4	208/230-3-60	43300	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J443DBVA	4	460-3-60	43300	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J483ABCA	4 1/2	208/230-1-60	48000	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J483DBLA	4 1/2	208/230-3-60	47600	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J483DBVA	4 1/2	460-3-60	47600	7.5 x 7.5	1/2	3/4	YES	—	—	—
H82J50BABCA	4	208/230-1-60	50300	7.5 x 7.5	1/2	3/4	YES	—	—	H8*J50*ABCA

## Bristol HCR Series Compressors



### Features

- Approved for R407C and R22
- Same tubing and mounting configuration as Copeland CR series
- Wiring Harness with plug included
- Charged with POE oil

**Replaces Copeland**

Item ID	Nominal H.P.	Volts-Phase-Hertz	Capacity (Btu)	Foot Mount (In.)	Discharge I.D. (In.)	Suction I.D. (In.)	CCH	Replaces
<b>Bristol R22, R407C with POE oil - Allows for the use of POE or mineral oil based refrigerants</b>								
HCRB183ABCA	1 1/2	208/230-1-60	18300	7.5 x 7.5	1/2	3/4	Yes	CR18K6-PFV
HCRB223ABCA	1 3/4	208/230-1-60	22600	7.5 x 7.5	1/2	3/4	Yes	CR22K6-PFV
HCRB243ABCA	2	208/230-1-60	24200	7.5 x 7.5	1/2	3/4	Yes	CR24K6-PFV
HCRB283ABCA	2 1/4	208/230-1-60	28800	7.5 x 7.5	1/2	3/4	Yes	CR28K6-PFV
HCRB303ABCA	2 1/2	208/230-1-60	29900	7.5 x 7.5	1/2	3/4	Yes	CR30K6-PFV
HCRB323ABCA	2 3/4	208/230-1-60	31900	7.5 x 7.5	1/2	3/4	Yes	CR32K6-PFV
HCRB353ABCA	3	208/230-1-60	35700	7.5 x 7.5	1/2	3/4	Yes	CR35K6-PFV

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.



## Bristol Commercial Air Conditioning Reciprocating Compressors



### Features

- Completely dehydrated, fully oil charged with mounting hardware and terminal cover provided
- Single and two speed compressors
- Internal line break protection through 12 HP
- 15HP through 24HP compressors shipped with external protective module
- Available with Rotolock and Sweat connections
- Available with sight glass
- See compressor accessories on page 172-188.
- **NEW** H92G series are charged with POE Oil for use with R407C and R22. H22G are charged with Mineral oil for R22 applications only.

Item ID	Oil	Nom. H.P.	Volts-Phase-Hertz	Nominal Capacity	Foot (In.)	Discharge (In.) x THD	Suction (In.) x THD	CCH	Module	Replaces	
										Copeland BR	Bristol
<b>Bristol Single Speed 3 Phase 60 Hertz Rotolock</b>											
H92G094DBDE-R	POE	7 1/2	208/230-3-60	90500	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRD20750TFC	H22G094DBDE-R
H22G094DBEE-R	Mineral	7 1/2	460-3-60	88700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRD20750TFD	H2BG094DBEE-R
H92G094DBEE-R	POE	7 1/2	460-3-60	88700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRD20750TFD	H22G094DBEE-R
H92G104DBDE-R	POE	8 1/2	208/230-3-60	102000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRG20900TFC	H22G104DBDE-R
H22G104DBEE-R	Mineral	8 1/2	460-3-60	103900	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRG20900TFD	H2BG104DBEE-R
H92G104DBEE-R	POE	8 1/2	460-3-60	103900	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRG20900TFD	H22G104DBEE-R
H22G124DBDE-R	Mineral	10	208/230-3-60	121500	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRH21000TFC	H2BG124DBDE-R
H92G124DBDE-R	POE	10	208/230-3-60	121500	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRH21000TFC	H22G124DBDE-R
H22G124DBEE-R	Mineral	10	460-3-60	119000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRH21000TFD	H2BG124DBEE-R
H92G124DBEE-R	POE	10	460-3-60	119000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRH21000TFD	H22G124DBEE-R
H22G144DBDE-R	Mineral	12	208/230-3-60	140000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRK21200TFC	H25G144DBDE-R
H92G144DBDE-R	POE	12	208/230-3-60	140000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRK21200TFC	H22G144DBDE-R
H22G144DBEE-R	Mineral	12	460-3-60	140000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRK21200TFD	H25G144DBEE-R
H92G144DBEE-R	POE	12	460-3-60	140000	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRK21200TFD	H22G144DBEE-R
H92G184DPDF-R	POE	15	208/230-3-60	183200	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G184DPDF-R
H22G184DPEF-R	Mineral	15	460-3-60	183200	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG184DPEF-R
H92G184DPEF-R	POE	15	460-3-60	183200	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G184DPEF-R
H92G204FRDF-R	POE	17	208/230-3-60	212400	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G204FRDF-R
H92G204DREF-R	POE	17	460-3-60	212400	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G204DREF-R
H92G244FRDF-R	POE	20	208/230-3-60	252900	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G244FRDF-R
H22G244DREF-R	Mineral	20	460-3-60	252900	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG244DREF-R
H92G244DREF-R	POE	20	460-3-60	252900	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G244DREF-R
H22G294FPDF-R	Mineral	24	208/230-3-60	287300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG294FPDF-R
H92G294FPDF-R	POE	24	208/230-3-60	287300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G294FPDF-R
H92G294DPEF-R	POE	24	460-3-60	287300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G294DPEF-R

All mineral oil models subject to availability

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Bristol Commercial Air Conditioning Reciprocating Compressors



### Features

- Completely dehydrated, fully oil charged with mounting hardware and terminal cover provided
- Single and two speed compressors
- Internal line break protection through 12 HP
- 15HP through 24HP compressors shipped with external protective module
- Available with Rotolock and Sweat connections
- Available with sight glass
- See compressor accessories on page 172-188.
- **NEW** H92G series are charged with POE Oil for use with R407C and R22. H22G are charged with Mineral oil for R22 applications only.

Item ID	Oil	Nom. H.P.	Volts-Phase-Hertz	Nominal Capacity	Foot (In.)	Discharge (In.) x THD	Suction (In.) x THD	CCH	Module	Copeland BR	Bristol
<b>Bristol Single Speed 3 Phase 60 Hertz Sweat Connections</b>											
H92G094DBDE-S	POE	7 1/2	208/230-3-60	90500	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRD20750TFC	H22G094DBDE-S
H22G094DBEE-S	Mineral	7 1/2	460-3-60	88700	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRD20750TFD	H2BG094DBEE-S
H92G094DBEE-S	POE	7 1/2	460-3-60	88700	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRD20750TFD	H22G094DBEE-S
H22G104DBDE-S	Mineral	8 1/2	208/230-3-60	102000	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRG20900TFC	H2BG104DBDE-S
H92G104DBDE-S	POE	8 1/2	208/230-3-60	102000	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRG20900TFC	H22G104DBDE-S
H22G104DBEE-S	Mineral	8 1/2	460-3-60	103900	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRG20900TFD	H2BG104DBEE-S
H92G104DBEE-S	POE	8 1/2	460-3-60	103900	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRG20900TFD	H22G104DBEE-S
H22G124DBDE-S	Mineral	10	208/230-3-60	121500	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRH21000TFC	H2BG124DBDE-S
H92G124DBDE-S	POE	10	208/230-3-60	121500	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRH21000TFC	H22G124DBDE-S
H22G124DBEE-S	Mineral	10	460-3-60	119000	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRH21000TFD	H2BG124DBEE-S
H92G124DBEE-S	POE	10	460-3-60	119000	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRH21000TFD	H22G124DBEE-S
H92G144DBDE-S	POE	12	208/230-3-60	140000	9.5 x 9.5	7/8 S	1-1/8 S	230V	N/REQD	BRK21200TFC	H22G144DBDE-S
H22G144DBEE-S	Mineral	12	460-3-60	140000	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRK21200TFD	H2BG144DBEE-S
H92G144DBEE-S	POE	12	460-3-60	140000	9.5 x 9.5	7/8 S	1-1/8 S	460V	N/REQD	BRK21200TFD	H22G144DBEE-S
H22G184DPDF-S	Mineral	15	208/230-3-60	183200	10.5 x 10.5	1-1/8 S	1-1/8 S	230V	115/230V	—	H2NG184DPDF-S
H92G184DPDF-S	POE	15	208/230-3-60	183200	10.5 x 10.5	1-1/8 S	1-1/8 S	230V	115/230V	—	H22G184DPDF-S
H22G184DPEF-S	Mineral	15	460-3-60	183200	10.5 x 10.5	1-1/8 S	1-1/8 S	460V	115/230V	—	H2NG184DPEF-S
H92G184DPEF-S	POE	15	460-3-60	183200	10.5 x 10.5	1-1/8 S	1-1/8 S	460V	115/230V	—	H22G184DPEF-S
H92G244FRDF-S	POE	20	208/230-3-60	252900	10.5 x 10.5	1-1/8 S	1-1/8 S	230V	115/230V	—	H22G244FRDF-S
H92G244DREF-S	POE	20	460-3-60	252900	10.5 x 10.5	1-1/8 S	1-1/8 S	460V	115/230V	—	H22G244DREF-S
H22G294FPDF-S	Mineral	24	208/230-3-60	287300	10.5 x 10.5	1-1/8 S	1-1/8 S	230V	115/230V	—	H2NG294FPDF-S
H92G294FPDF-S	POE	24	208/230-3-60	287300	10.5 x 10.5	1-1/8 S	1-1/8 S	230V	115/230V	—	H22G294FPDF-S

All mineral oil models subject to availability

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Bristol Commercial Air Conditioning Reciprocating Compressors



Rotolock with sight Glass



H2DA Series

### Features

- Completely dehydrated, fully oil charged with mounting hardware and terminal cover provided
- Single and two speed compressors
- Internal line break protection through 12 HP
- 15HP through 24HP compressors shipped with external protective module
- Available with Rotolock and Sweat connections
- Available with sight glass
- See compressor accessories on page 172-188.
- **NEW** H92G series are charged with POE Oil for use with R407C and R22. H22G are charged with Mineral oil for R22 applications only.

Item ID	Oil	Nom. H.P.	Volts-Phase-Hertz	Nominal Capacity	Foot (In.)	Discharge (In.) x THD	Suction (In.) x THD	CCH	Module	Replaces	
										Copeland BR	Bristol
<b>Bristol Two Speed 3 Phase 60 Hertz Rotolock with Sight Glass</b>											
H22G094GPDE-R	Mineral	7 1/2	208/230-3-60	87700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG094GPDE-R
H92G094GPDE-R	POE	7 1/2	208/230-3-60	87700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G094GPDE-R
H22G094GPEE-R	Mineral	7 1/2	460-3-60	87700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG094GPEE-R
H92G094GPEE-R	POE	7 1/2	460-3-60	87700	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G094GPEE-R
H22G124GPDE-R	Mineral	10	208/230-3-60	119400	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG124GPDE-R
H92G124GPDE-R	POE	10	208/230-3-60	119400	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G124GPDE-R
H22G124GPEE-R	Mineral	10	460-3-60	119400	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG124GPEE-R
H92G124GPEE-R	POE	10	460-3-60	119400	9.5 x 9.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G124GPEE-R
H22G184GPDF-R	Mineral	15	208/230-3-60	182300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG184GPDF-R
H92G184GPDF-R	POE	15	208/230-3-60	182300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H22G184GPDF-R
H92G184GPEF-R	POE	15	460-3-60	182300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H22G184GPEF-R
H22G244GPDF-R	Mineral	20	208/230-3-60	253300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 13	230V	115/230V	—	H2NG244GPDF-R
H92G244GPDF-R	POE	20	208/230-3-60	253300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 13	230V	115/230V	—	H22G244GPDF-R
H22G244GPEF-R	Mineral	20	460-3-60	253300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 14	460V	115/230V	—	H2NG244GPEF-R
H92G244GPEF-R	POE	20	460-3-60	253300	10.5 x 10.5	1 1/4 x 12	1 3/4 x 14	460V	115/230V	—	H22G244GPEF-R
<b>Bristol Dual Tandem H2DA Series</b>											
H2DA923DBEL	Mineral	7 1/2	460-3-60	92700	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T @90° UP	23-40W	—	—	—
H2DA923DBLL	Mineral	7 1/2	208/230-3-60	92700	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T @90° UP	23-40W	—	—	—
H2DA114DBEL	Mineral	9	460-3-60	111300	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T @90° UP	23-40W	—	—	—
H2DA114DBLL	Mineral	9	208/230-3-60	111300	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T @90° UP	23-40W	—	—	—
H2DA124DBEL	Mineral	10	460-3-60	121600	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T	23-40W	—	—	—
H2DA124DBLL	Mineral	10	208/230-3-60	121600	Base plate	3/4" T" @90° UP W/EXT	1 1/8 T @90° UP	23-40W	—	—	—

All mineral oil models subject to availability

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Danfoss Residential Heat Pump And Commercial AC



### Features

- Economical **Trane Direct Replacements**
- All SM115-SM185 compressors feature brazed connections and thermostat motor protection
- “Q” as the 7th digit denotes that the compressor has a bracket to enable tandem installation
- Mounting kit with grommets, bolts, nuts, sleeves and washers
- Initial oil charge
- Standard SM product includes sight glass along with oil pick up tube and Schrader Valve for easy oil removal



Item ID	MFG #	H.P.	Volts-Phase-Hertz	Cap. (Btu)	Discharge ODF (In.)	Suction ODF (In.)	Replaces			
							Trane	Copeland	Carlyle	Old Bristol
<b>Danfoss R22 Series</b>										
HRM025T1LP6	120U2780	2	208/230-1-60	25000	1/2	3/4		ZR25K-PFV	XCD250AA	—
HRM032U1LP6	120U0921	3	208/230-1-60	32305	1/2	3/4		ZR28K*-PFV	XCD320HA	H23C323ABCA
HRM034U1LP6	120U0926	3	208/230-1-60	34103	1/2	3/4		ZR34K*-PFV	XCD340HA	H23C343ABCA
HRM038U1LP6	120U0931	3+	208/230-1-60	38000	1/2	3/4		ZR36K*-PFV	XCD380HA	H23C383ABCA
HRM038U2LP6	120U1091	3+	208/230-3-60	38000	1/2	3/4		ZR36**_*-***_***	XCY382HA	H23C383DBDA
HRM042U1LP6	120U0941	3 1/2	208/230-1-60	42000	1/2	3/4		ZR42K*-PFV	XCD420HA	H23C423ABCA
HRM042U2LP6	120U1111	3 1/2	208/230-3-60	42006	1/2	3/4		ZR42K*-TF5	XCY422HA	H23C423DBDA
HRM047U1LP6	120U0951	4	208/230-1-60	47509	1/2	7/8		ZR47K*-PFV	XCD470HA	H23C473ABCA
HRM047U2LP6	120U1131	4	208/230-3-60	47511	1/2	7/8		ZR47K*-TF5	XCY472HA	H23C473DBDA
HRM047U4LP6	120U1051	4	460-3-60 400-3-50	47511	1/2	7/8		ZR47K*-TFD	XCH472HA	H23C473DBEA
HRM054U1LP6	120U1511	4 1/2	208/230-1-60	54000	1/2	7/8		ZR54K*-PFV	XRD540HA	H23R543ABCA
HRM054U2LP6	120U1871	4 1/2	208/230-3-60	53705	1/2	7/8		ZR54K*-TF5	XRY542HA	H23R543DBDA
HRM054U4LP6	120U1696	4 1/2	460-3-60 400-3-50	53705	1/2	7/8		ZR54**_*-***_***	XRH542HA	H23R543DBEA
HRM058U1LP6	120U1531	5	208/230-1-60	58000	1/2	7/8		ZR57K*-PFV	XRD580HA	H23R583ABCA
HRM058U2LP6	120U1876	5	208/230-3-60	57807	1/2	7/8		ZR57K*-TF5	XRY582HA	H23R583DBDA
HRM058U4LP6	120U1711	5	460-3-60 400-3-50	58000	1/2	7/8		ZR57K*-TFD	XRH582HA	H23R583DBEA
HRM060U1LP6	120U1546	5+	208/230-1-60	60000	1/2	7/8		ZR61K*-PFV	XRD600HA	H23R603ABCA
HRM060U2LP6	120U1881	5+	208/230-3-60	60000	1/2	7/8		ZR61K*-TF5	XRY602HA	H23R603DBDA
HRM060U4LP6	120U1736	5+	460-3-60 400-3-50	60000	1/2	7/8		ZR61K*-TFD	XRH602HA	H23R603DBEA
HLM068T1LP6	120U1556	5 3/4	208/230-1-60	68811	1/2	7/8				
HLM068T2LC6	120U1891	5 3/4	208/230-3-60	68917	1/2	7/8				
HLM068T4LC6	120U1746	5 3/4	460-3-60 400-3-50	68917	1/2	7/8				
HLM072T1LP6	120U1566	6	208/230-1-60	72000	1/2	7/8		ZR72**_*-***_***	XRD720AA	
HLM072T2LC6	120U1896	6	208/230-3-60	72000	1/2	7/8		ZR72**_*-***_***	XRY722AE	
HLM072T4LC6	120U1751	6	460-3-60 400-3-50	72000	1/2	7/8		ZR72**_*-***_***	XRH722AE	
HLM075T2LC6	120U1901	6 1/4	208/230-3-60	75000	7/8	1/2		CSHA-075R-0*00 OR OA, CSHS-075R-0*00 OR OA	ZR72**_*-***_***	
HLM075T4LC6	120U1761	6 1/4	460-3-60	75000	7/8	1/2		CSHA-075K-0*00 OR OA, CSHS-075K-0*00 OR OA	ZR72**_*-***_***	
HLM081T2LC6	120U1911	7	208/230-3-60	81000	3/4	7/8		ZR81**_*-***_***	XRY812AE	
HLM081T4LC6	120U1776	7	460-3-60 400-3-50	81000	3/4	7/8		ZR81**_*-***_***	XRH812AE	
HCM094T2LC6	120U0891	8	208/230-3-60	94000	7/8	1 1/8		ZR90**_*-***_***	SRY942AE	
HCM094T4LC6	120U0581	8	460-3-60 400-3-50	94000	7/8	1 1/8		ZR90**_*-***_***	SRH942AE	
HCM109T4LC6	120U0366	9	460-3-60 400-3-50	109000	7/8	1 1/8		ZR108**_*-***_***	SRH109AE	
HCM120T2LC6	120U0761	10	208/230-3-60	120000	7/8	1 1/8		CSHA-120R-0*00 OR OA, CSHS-120R-0*00 OR OA	ZR12**_*-***_***	
HCM120T4LC6	120U0391	10	460-3-60 400-3-50	120000	7/8	1 1/8		ZR12**_*-***_***	SRH120AE	

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## Danfoss Residential Heat Pump And Commercial AC



### Features

- High-quality, quiet, and easy to install
- Universal replacement for air conditioning and heat pump applications
- Same 7.5" square bolt pattern with similar suction/discharge connection heights as Copeland
- Lighter and quieter with 30% fewer parts than Copeland
- Unloaded scroll set eliminates the need for start capacitor
- Superior thermal fault protection (blocked TXV, loss of charge, etc)



Made in USA

Item ID	MFG #	H.P.	Volts-Phase-Hertz	Capacity (Btu)	Discharge ODF (In.)	Suction ODF (In.)	Replaces	
							Copeland	Carlyle
<b>Danfoss R410A Series</b>								
HRH032U1LP6	120U1141	2 1/2	208/230-1-60	32000	1/2	3/4	ZP32K3E-PFV	
HRM034U1LP6	120U1146	3	208/230-1-60	34501	1/2	3/4		
HRM034U2LP6	120U1261	3	208/230-3-60	34507	1/2	3/4		
HRH038U1LP6	120U1156	3	208/230-1-60	37901	1/2	3/4	ZP38K*E-PFV	XGD380HA
HRH038U2LP6	120U1271	3	208/230-3-60	37908	1/2	3/4		
HRH040U1LP6	120U1161	3 1/2	208/230-1-60	41503	1/2	7/8	ZP41K3E-PFV	
HRH040U2LP6	120U1276	3 1/2	208/230-3-60	41510	1/2	7/8	ZP38K*E-TF5	
HRH040U4LP6	120U1211	3 1/2	460-3-60	41510	1/2	7/8	ZP38K3E-TFD	
HRH048U1LP6	120U2582	4	208/230-1-60	49010	1/2	7/8	ZP49K5E-PFV	
HRH049U4LP6	120U1366	4	460-3-60	48997	1/2	7/8	ZP50K3E-TFD	
HRH050U2LP6	120U2859	4 1/2	208/230-3-60	50505	1/2	7/8	ZP50K3E-TF5	
HRH054U1LP6	120U1301	4 1/2	208/230-1-60	54498	1/2	7/8	ZP54K*E-PFV	
HLH061T1LP6	120U2042	5	208/230-1-60	60793	1/2	7/8	ZP61K5E-PFV	XND610HA
HLH061T2LC6	120U2062	5	208/230-3-60	61874	1/2	7/8	ZP61***_***_***	XNY612HE
HLH061T4LC6	120U2052	5	460-3-60 400-3-50	61898	1/2	7/8	ZP61***_***_***	XNH612HE
HLH068T2LC6	120U1481	5 3/4	208/230-3-60	68702	1/2	7/8		
HLH068T4LC6	120U1391	5 3/4	460-3-60 400-3-50	68702	1/2	7/8		
HLJ072T2LC6	120U1486	6	208/230-3-60	72502	1/2	7/8		
HLJ072T4LC6	120U1396	6	460-3-60 400-3-50	72502	1/2	7/8		
HLJ083T2LC6	120U1491	7	208/230-3-60	83092	1/2	7/8	ZP83***_***_***	XNY832AE
HLJ083T4LC6	120U1401	7	460-3-60 400-3-50	83092	1/2	7/8	ZP83***_***_***	XNH832AE
H CJ090T2LC6	120U2307	8	208/230-3-60	92056	7/8	1 1/8	ZP90***_***_***	SNY902AE
H CJ090T4LC6	120U2302	8	460-3-60 400-3-50	91503	7/8	1 1/8	ZP90***_***_***	
H CJ105T2LC6	120U2327	9	208/230-3-60	106811	7/8	1 1/8	ZP103***_***_***	SNY105AE
H CJ105T4LC6	120U2322	9	460-3-60 400-3-50	108368	7/8	1 1/8	ZP103***_***_***	
H CJ120T2LC6	120U2347	10	208/230-3-60	121086	7/8	1 1/8	ZP120***_***_***	SNY120AE
H CJ120T4LC6	120U2342	10	460-3-60 400-3-50	121602	7/8	1 1/8	ZP120***_***_***	

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.





## Commercial Air Conditioning Scroll Compressors



### Features

- Economical **Trane Direct Replacements**
- All SM115-SM185 compressors feature brazed connections and thermostat motor protection
- “Q” as the 7th digit denotes that the compressor has a bracket to enable tandem installation
- Fully oil charged with mounting kit with grommets, bolts, nuts, sleeves and washers
- Standard SM product includes sight glass along with oil pick up tube and Schrader Valve for easy oil removal

Item ID	MFG #	Volts-Phase-Hertz	Capacity	Discharge ODF (In.)	Suction ODF (In.)	Replaces	
						Trane	Copeland
<b>R22 Danfoss</b>	<b>Performer Universal Scroll Compressors With Upper Mounting Bracket</b>						
SM090S3VC	SM090-3VI	208/230-3-60	90049	3/4	1 1/8	CSHA-090R-0*00 or OA, CSHS-090R-0*00 or OA	ZR90K3-TWC, ZR90K3E-TWC
SM090S4VC	SM090-4VI	460-3-60	90049	3/4	1 1/8	CSHA-090K-0*00 or OA, CSHS-090K-0*00 or OA	ZR90K3-TWD, ZR90K3E-TWD
SM115S3CC	SM115-3QAI	208/230-3-60	115215	7/8	1 3/8	CSHA-093R-0*00 or OA, CSHS-093R-0*00 or OA	ZR108KC-TF5, ZR11M3-TWC
SM115S4CC	SM115-4QAI	460-3-60 400-3-50	115215	7/8	1 3/8	CSHA-093K-0*00 or OA, CSHS-093K-0*00 or OA	ZR108KC-TFD, ZR11M3-TWD
SM125S3CC	SM125-3QAI	208/230-3-60	126423	7/8	1 3/8	CSHA-100R-0*00 or OA, CSHS-100R-0*00 or OA	ZR125KC-TF5, ZR12M3-TWC
SM125S4CC	SM125-4QAI	460-3-60 400-3-50	126423	7/8	1 3/8	CSHA-100K-0*00 or OA, CSHS-100K-0*00 or OA	ZR125KC-TFD, ZR12M3-TWD
SM160T3CC	SM160-3CBI	208/230-3-60	163000	1 1/8	1 5/8	CSHA-125R-0*00 or OA	ZR16M3-TWC
SM160T4CC	SM160-4CBI	460-3-60 400-3-50	163000	1 1/8	1 5/8	CSHA-125K-0*00 or OA	ZR16M3-TWD
SM175S3CC	SM175-3QAI	208/230-3-60	174355	1 1/8	1 5/8	CSHA-140R-0*00 or OA, CSHS-140R-0*00 or OA	—
SM175S4CC	SM175-4QAI	460-3-60 400-3-50	174355	1 1/8	1 5/8	CSHA-140K-0*00 or OA, CSHS-140K-0*00 or OA	—
SM185S3CC	SM185-3QAI	208/230-3-60	185474	1 1/8	1 5/8	CSHA-150R-0*00 or OA, CSHS-150R-0*00 or OA	ZR190KC-TW5, ZR19M3-TWC
SM185S4CC	SM185-4QAI	460-3-60 400-3-50	185474	1 1/8	1 5/8	CSHA-150K-0*00 or OA, CSHS-150K-0*00 or OA	ZR190KC-TWD, ZR19M3-TWD

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## LG Scroll Compressors

**NEW**



### Features

- **Quiet Start-up and Shut-down:** Sound is minimized by a check valve in the discharge port of the scroll sets
- **Discharge Temperature Protection (DTS):** External thermal sensor protects against excessively high scroll temperatures
- **Internal Pressure Relief (IPR):** Relief valve opens at very high internal pressures protecting the unit
- **Internal Motor Overload Protection (OLP):** Thermal switch senses high temperature of the compressor motor windings

Item ID	Nominal H.P.	Volts-Phase-Hertz	Capacity	Discharge Line I.D.	Suction Line I.D.	Run Capacitor MFD/Volts	Replaces	
							Copeland	Danfoss
<b>R22, R407C Series</b>								
<b>SQA022KAZ</b>	1 3/4	208/230-1PH-60	21500	1/2	3/4	35/440	ZR21K5-PFV, ZR22K4PFV	N/A
<b>SQA026KAZ</b>	2+	208/230-1PH-60	26100	1/2	3/4	35/440	ZR25K5-PFV	HRM025T1LP6
<b>SQA032KAZ</b>	2 1/2	208/230-1PH-60	32300	1/2	3/4	45/440	ZR32K5-PFV, ZR30K3PFV	HRM032U1LP6
<b>SQA038KAZ</b>	3	208/230-1PH-60	37000	1/2	3/4	50/440	ZR38K5-PFV, ZR36K3PFV	HRM038U1LP6
<b>SQA042KAZ</b>	3 1/2	208/230-1PH-60	41200	1/2	3/4	50/440	ZR42K5-PFV, ZR40K3PFV	HRM040U1LP6
<b>SR047KBZ</b>	4	208/230-1PH-60	47600	1/2	7/8	60/440	ZR48K5-PFV	HRM048U1LP6
<b>SRA053KAZ</b>	4 1/2	208/230-1PH-60	53500	1/2	7/8	70/440	ZR54K5-PFV	HRM054U1LP6
<b>SR057KCZ</b>	4 3/4	208/230-1PH-60	58000	1/2	7/8	70/440	ZR57K3-PFV	HRM058U1LP6
<b>SR061RBZ</b>	5	208/230-3PH-60	62000	1/2	7/8	N/A	ZR61K3-TF5	HRM060U2LP6
<b>R410A Series</b>								
<b>APB016KAA</b>	1 1/2	208/230-1-60	15200	1/2"	3/4"	35/370	ZP16K5EPFV	
<b>APB020KAA</b>	2	208/230-1-60	19500	1/2"	3/4"	35/370	ZP20K5EPFV	
<b>APB024KAA</b>	2+	208/230-1-60	22500	1/2"	3/4"	40/370	ZP24K5EPFV	
<b>APA032KAA</b>	3	208/230-1-60	30500	1/2"	3/4"	45/440	ZP29K5EPFV, ZP31K5EPFV	HRH032U1LP6
<b>AQA034KAA</b>	3	208/230-1-60	34100	1/2"	7/8"	45/440	ZP34K5EPFV	HRH034U1LP6
<b>AQA036KAA</b>	3+	208/230-1-60	36000	1/2"	7/8"	45/440	ZP36K5EPFV, ZP38K5EPFV	HRH038U1LP6
<b>AQA042KAA</b>	4	208/230-1-60	41500	1/2"	7/8"	70/440	ZP42K5EPFV	HRH040U1LP6
<b>ABA051KAC</b>	5	208/230-1-60	51500	1/2"	7/8"	75/440	ZP51K5EPFV	HRH051U1LP6
<b>ABA054KAA</b>	5+	208/230-1-60	54000	1/2"	7/8"	80/440	ZP54K5EPFV	HRH054U1LP6
<b>ABA054RAB</b>	5+	208/230-3-60	54500	1/2"	7/8"	—	ZP54K5ETF5	HRH054U2LP6
<b>ABA054WAB</b>	5+	460-3-60	54000	1/2"	7/8"	—	ZP54K5ETFD	HRH054U4LP6

Capacities are at ARI conditions.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.



## Packard Refrigeration Compressors Offering



Nominal H.P. (Tons)	1/10	1/8	1/6	1/5	1/4	1/3	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	7	8	9	10	12	13	24	40
R12 Reciprocating	350 to 5000 BTU																									
R22 Reciprocating	15903 to 287300 BTU																									
R134a Reciprocating	113 to 107631 BTU																									
R404A Reciprocating	702 to 87421 BTU																									

## Refrigeration Compressors



Bristol

### Features

- L1NB Series for ultra low temperature applications
- Replacement compressors for low temperature refrigeration and food service equipment.

Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R12 Blend</b>										
L1NB262EBAB	—	115-1-60	2400	—	—	4.8 x 8	3/8	5/8	—	—
L1NB262EBCB	—	208/230-1-60	2400	—	—	4.8 x 8	3/8	5/8	—	—

## Embraco Refrigeration Compressors

### Features

- Triple duty compressors that may be used in low, medium and high temperature applications (Copeland and Tecumseh Replacements)
- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment



Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R12 Blend</b>										
EMI30ER1	1/10	115-1-60	350	—	—	4 x 6.5*	3/16	1/4	—	—
EMI45ER1	1/8	115-1-60	485	—	—	4 x 6.5*	3/16	1/4	—	—
EMI55ER1	1/6	115-1-60	570	—	—	5.91 X 5.67*	1/4	5/16	—	—
FFC60BK1	1/5+	115-1-60	756	1644	2573	4 x 6.5*	1/4	5/16	—	—
FF8.5BK1	1/5	115-1-60	850	1759	3080	4 x 6.5*	1/4	5/16	AEA3430AXA	—
FF10BK1	1/4	115-1-60	915	1908	3240	4 x 6.5*	1/4	5/16	AEA3430AXA	—
FF11.5BK1	1/4	115-1-60	1130	1893	4000	4 x 6.5*	1/4	5/16	—	—
FFI12BX1	1/3	115-1-60	1350	2142	5000	4 x 6.5*	1/4	5/16	AEA4440AXA	ARE41C3-IAA (HST) JFB1-0033-IAA (HST)



Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R134a</b>										
EMIS30HHR1	1/10	115-1-60	340	950	1480	4 x 6.5*	3/16	1/4	AEA0335YXA	—
EM45HHR1	1/8	115-1-60	420	1053	1775	4 x 6.5*	3/16	1/4	AZA0350YXA	—
EMI55HER1	1/6	115-1-60	510	—	—	4 x 6.5*	3/16	1/4	THG1358YXA	—
EM65HHR1	1/6+	115-1-60	—	—	2600	4 x 6.5*	1/4	1/4	—	—
FF7.5HBK1	1/5	115-1-60	630	1622	2760	4 x 6.5*	1/4	5/16	AEA1360YXA AEA3425YXA	ARB13C3E-SAA
EMIS70HHR1	1/5	115-1-60	700	1829	—	4 x 6.5*	1/4	1/4	—	—
FF8.5HBK1	1/4	115-1-60	740	1745	3135	4 x 6.5*	1/4	5/16	AEA3430YXA	AF05C1E-SAA (LST)
FF8.5HBK1C**	1/4	115-1-60	740	1745	3135	4 x 6.5*	1/4	5/16	AEA4430YXA	ARE27C3E-IAA
FF10HBX1	1/4+	115-1-60	840	—	3650	4 x 6.5*	1/4	5/16	—	—
NEK6160Z1	1/4	115-1-60	—	—	2884	4 x 6.5*	3/16	1/4	—	—
NEK6170Z1	1/4	115-1-60	—	—	3336	4 x 6.5*	3/16	1/4	—	—
FF10HBK1	1/4+	115-1-60	840	1995	3530	4 x 6.5*	1/4	5/16	—	—
NE2134Z1	1/4	115-1-60	1452	—	—	4 x 6.5*	1/4	5/16	AEA2413YXA	AFE12C3E-IAA
FFI10HBX1	1/3	115-1-60	1065	2038	4400	4 x 6.5*	1/4	5/16	AEA4440YXA AEA3440YXA	ARE37C3E-IAA
NEK6187Z1	1/3	115-1-60	—	—	3830	4 x 6.5*	1/4	5/16	—	—
FFI12HBX1	1/3+	115-1-60	1190	2886	5300	4 x 6.5*	1/4	5/16	AEA4448YXA	ARE41C3E-IAA
NEK6212Z1	1/2	115-1-60	—	—	5178	4 x 6.5*	1/4	5/16	AEA4448Y	ARE46C4E
NT6215Z1	1/2+	115-1-60	—	3705	6626	4.8 x 8.0*	1/4	3/8	AKA4460YXA	RRT62C1-IAA
NEK6214Z1	3/4	115-1-60	—	—	5960	4 x 6.5*	1/4	5/16	—	—
NT6217Z1	3/4	115-1-60	—	3909	7460	4.8 x 8.0*	1/4	3/8	AKA4476YXA	ART64C1E-IAA
NT6217Z2	3/4	208/230-1-60	—	3909	7579	4.8 x 8.0*	1/4	3/8	AKA4460YXD	ART64C1E-IAV
NJ6220Z1	1	115-1-60	—	—	10169	4.8 x 8.0*	5/16	3/8	—	AR84C1E-IAA
NT6220Z1	1	115-1-60	—	8414	8400	4.8 x 8.0*	1/4	3/8	AJA4492*X*	—
NT6220Z2	1	208/230-1-60	—	8351	8400	4.8 x 8.0*	1/4	3/8	AJA4492*X*	—

\* Additional mounting configurations on base plate.

\*\*FF8.5HBK1C includes start capacitor.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Embraco Refrigeration Compressors

### Features

- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment



Embraco

Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R404A</b>										
NEK2121GK1	1/3	115-1-60	1212	—	—	4 x 6.5	3/16	1/4	—	—
NEK2125GK1	1/3	115-1-60	1455	—	—	4 x 6.5*	1/4	5/16	AEA2411ZXA	AFE11C4E-IAA
NEK2134GK1	1/2	115-1-60	1947	—	—	4 x 6.5*	1/4	5/16	AJA2419ZXA	AFE13C4E-IAA
NEK2134GK2	1/2	208/230-1-60	1858	—	—	4 x 6.5*	1/4	5/16	AJA2419ZXA	AFE13C4E
NEK6210GK1	1/2	115-1-60	—	—	5355	4 x 6.5*	1/4	5/16	—	ASE26C4E
NEK2150GK1	1/2+	115-1-60	2448	—	—	4 x 6.5*	1/4	5/16	AJA2425ZXA	AFE17C4E-IAA
NT2168GKV1	3/4	115-1-60	2628	—	—	4.8 x 8.0*	1/4	3/8	AJA2425ZXA	AFT22C1E-IAA
NT2168GKV2	3/4	208/230-1-60	2694	—	—	4.8 x 8.0*	1/4	3/8	AJA2425ZXD	AFT22C1E-CAV
NT2180GKV1	1	115-1-60	3892	—	—	8 X 4.8"	*1/4	*3/8	—	—
NEK6181GK1	1/3+	115-1-60	—	—	4389	4 x 6.5	3/16	1/4	—	—
NEK6213GK1	1/2+	115-1-60	—	—	6660	4 x 6.5	3/16	1/4	—	—
NT6220GKV1	3/4	115-1-60	—	—	8464	4.8 x 8.0*	1/4	3/8	AWA9490Z	RST45C1E
NT6222GKV2	1	208/230-1-60	—	—	9992	4.8 x 8.0*	1/4	3/8	AWA9512Z	RST55C1E
NT6224GKV2	1	208/230-1-60	—	—	11984	4.8 x 8.0*	1/4	3/8	—	—
NT2180GKV2	1	208/230-1-60	3962	—	—	4.8 x 8.0*	1/4	3/8	AJA2425ZXD	AFT296C1E-CFV
NJ2192GK1	1 1/4	115-1-60	4500	—	—	4.8 x 8.0*	5/16	1/2	—	—
NJ2192GK2	1 1/4	208/230-1-60	4502	—	—	4.8 x 8.0	5/16	1/2	AJA2444ZXD	AFJ31C2E-CFV
NT2212GKV1	1 1/2	115-1-60	5629	—	—	4.8 x 8.0*	1/4	3/8	AWA2460Z	AFJ37C2E
NT2212GKV2	1 1/2	208/230-1-60	5710	—	—	4.8 x 8.0*	1/4	3/8	AWA2460ZXD	RS86C1E-PFV



Bristol

Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R404A</b>										
L63B562BBAB	3/4	115-1-60	4800	—	—	4.8 x 8.0	3/8	5/8	—	—
L63B562BBCB	1/2	208/230-1-60	5100	—	—	4.8 x 8.0	3/8	5/8	—	CS18K6E-PFV
L63B652BBCB	1	208/230-1-60	6200	—	—	4.8 x 8.0	3/8	5/8	—	CS18K6E-PFV
L63B752BBCB	3/4	208/230-1-60	7500	—	—	4.8 x 8.0	3/8	5/8	—	CF06KE-PFV
L63A113BBCA	—	208/230-1-60	10600	—	—	7.5 x 7.5	1/2	3/4	—	—
L63A113DBLA	—	208/230-3-60	10800	—	—	7.5 x 7.5	1/2	3/4	—	—
L63A183BBCA	—	208/230-1-60	18000	—	—	7.5 x 7.5	1/2	3/4	—	—
L63A183DBDA	—	208/230-3-60	18000	—	—	7.5 x 7.5	1/2	3/4	—	—



Bristol

Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	I.D. Discharge Size (In.)	I.D. Suction Size (In.)	Replaces	
			LT @ -10°F	MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
<b>R22, R404A, R407C</b>										
R92J223ABCA	—	208/230-1-60	23634	10780	20300	7.5 x 7.5	1/2	3/4	—	—
R92J343DBVA	—	460-3-60	34100	17400	33300	7.5 x 7.5	1/2	3/4	—	—
R92J433ABCA	—	208/230-1-60	43640	23100	39700	7.5 x 7.5	1/2	3/4	—	—
R92J433DBLA	—	208/230-3-60	43270	23300	40100	7.5 x 7.5	1/2	3/4	—	—
R92J433DBVA	—	460-3-60	42900	23200	39700	7.5 x 7.5	1/2	3/4	—	—

\* Additional mounting configurations on base plate.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.



## Danfoss/Secop Refrigeration Compressors



### Features

- Triple duty compressors that may be used in low, medium and high temperature applications (Copeland and Tecumseh Replacements)
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment

Item ID	Nominal H.P.	Volts-Phase-Hertz	BTU			Foot (In.)	Discharge Size (In.)	I.D. Suction Size (In.)
			LBP -10/130	MBP 20/130	HBP 45/130			
<b>R134a</b>								
BD35F-W/ELE	—	12-24V DC, 10-45V DC Solar & 100-240V AC, 50/60HZ	113 - 171	140 - 257	518 - 648	2.76 x 6.7	3/16	1/4
BD50F-W/ELE	—	12-24V DC & 100-240V AC, 50/60 Hz	142 - 245	360 - 613	633 - 810	2.76 x 6.7	3/16	1/4
TL2.5F-1	1/10	115-1-60	190	493	966	2.76 x 6.7	3/16	1/4
TL4G-1	1/10+	115-1-60	306	729	1369	4 x 6.5	3/16	1/4
TFS4.5FT-1	1/8	115-1-60	477	1135	—	4 x 6.5	3/16	1/4
FF8.5GX-1	1/4	115-1-60	662	1570	2842	4 x 6.5	1/4	5/16
NF6.1FX.2-1	1/4	115-1-60	721	1541	—	4 x 6.5	1/4	5/16
NF7.3FX.2-1	1/4	115-1-60	892	1857	—	4 x 6.5	1/4	5/16
SC12G-1	1/3+	115-1-60	972	2588	4730	4 x 6.5	1/4	5/16
NF10FX-1	1/3	115-1-60	1046	2123	3756	4 x 6.5	1/4	5/16
NF11FX.2-1	1/3	115-1-60	1301	2700	4726	4 x 6.5	1/4	5/16
SC15G-1	1/2+	115-1-60	1241	3045	5496	4 x 6.5	1/4	5/16
SC18G-1	1/2+	115-1-60	1357	3469	6200	4 x 6.5	1/4	3/8
SC15FTX-1	1/2	115-1-60	1550	3531	—	4 x 6.5	1/4	5/16

Item ID	Nominal H.P.	Volts/Phase-Hertz	BTU			Foot (In.)	Discharge Size (In.)	I.D. Suction Size (In.)
			LBP -10/130	MBP 20/130	HBP 45/130			
<b>R404A</b>								
TF4CLX-1	1/5	115-1-60	702	1285	—	4 x 6.5	3/16	1/4
TFS4.5CLX-1	1/4	115-1-60	926	—	—	4 x 6.5	3/16	1/4
NF5.5CLX-1	1/3	115-1-60	1249	2209	—	4 x 6.5	1/4	5/16
NF7CLX-1	1/3+	115-1-60	1543	2789	—	4 x 6.5	1/4	5/16
SC10CL-1	1/2	115-1-60	1420	3096	—	4 x 6.5	1/4	5/16
SC12CL-1	1/2	115-1-60	2374	—	—	4 x 6.5	1/4	5/16
SC12CLX.2-1	1/2+	115-1-60	2466	—	—	4 x 6.5	1/4	5/16
SC12MLX-1	3/4	115-1-60	—	4391	—	4 x 6.5	1/4	5/16
SC15CLX.2-1	3/4	115-1-60	3000	—	—	4 x 6.5	1/4	3/8
SC15MLX.2-1	3/4	115-1-60	—	5120	—	4 x 6.5	1/4	3/8
SC18CLX.2-1	3/4	115-1-60	3656	—	—	4 x 6.5	1/4	3/8
SC18MLX-1	3/4	115-1-60	—	6296	—	4 x 6.5	1/4	3/8
SC12CLX.2-2	3/4	220/240-1-50/60	2412	—	—	4 x 6.5	1/4	5/16
SC15CLX.2-2	3/4	208/230-1-60	3005	—	—	4 x 6.5	1/4	3/8
SC18CLX.2-2-230V	1	208/230-1-60	3797	—	—	4 x 6.5	1/4	3/8

\*Additional mounting configurations on base plate.

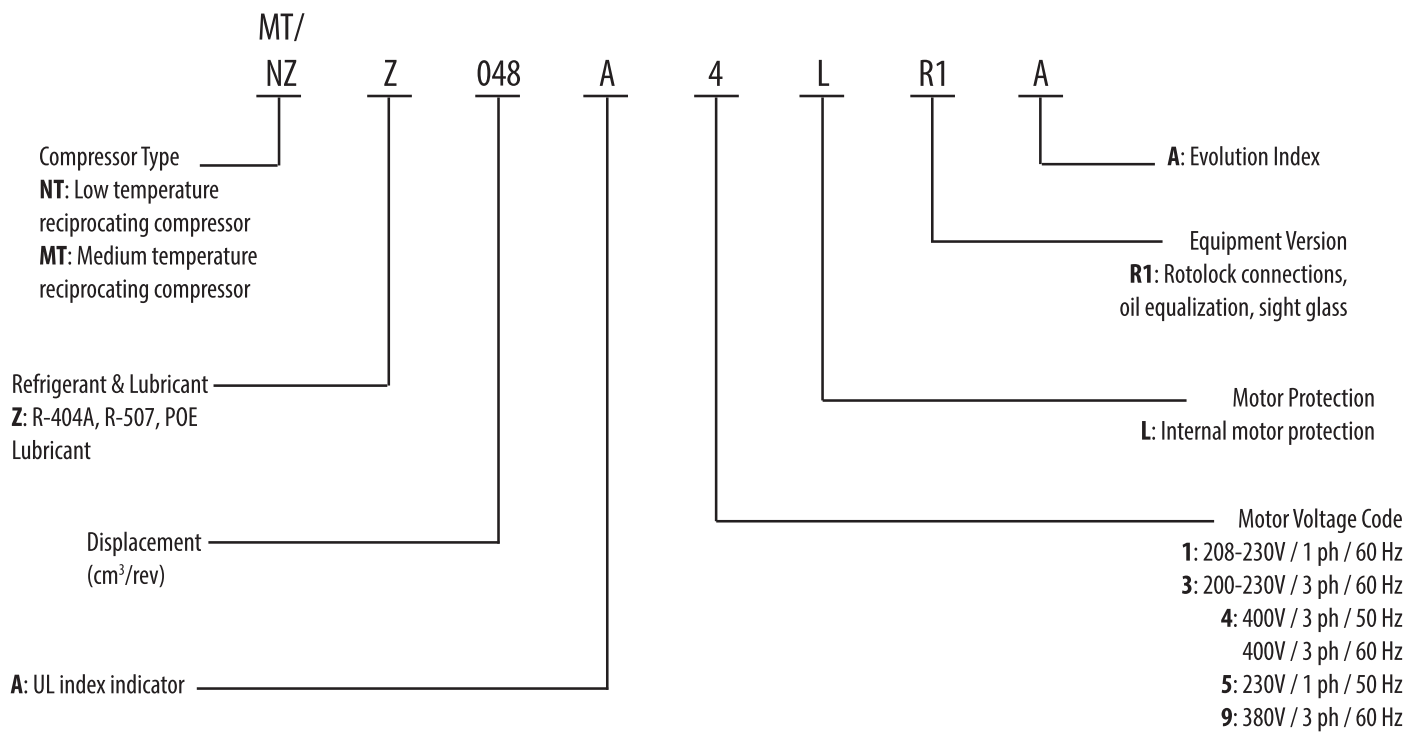


## Maneurop® Reciprocating NTZ Series Compressors



### Features

- Maneurop NTZ series hermetic reciprocating compressors are designed for low evaporating temperature applications.
- The NTZ series is specifically designed for use with the HFC refrigerants R-404A and R-507A, using 160PZ polyester oil as lubricant.
- All compressors come with threaded sight glass and 3/8" oil equalization connection
- Parts shipped with compressor:
  - Mounting kit with grommets, bolts, nuts, sleeves and washers
  - Suction and discharge solder sleeves, rotolock nuts and gaskets
  - Initial oil charge and installation instructions



208/230-1-60			208/230-3-60			460-3-60			Conn. Type Rotolock (In.)	Conn. w/ Supplied Sleeve (In. ODF)	No. Cylinders
Item ID	Nominal Capacity <sup>1</sup> (Btu/h)	Danfoss Code No. <sup>2</sup>	Item ID	Nominal Capacity <sup>1</sup> (Btu/h)	Danfoss Code No. <sup>2</sup>	Item ID	Nominal Capacity <sup>1</sup> (Btu/h)	Danfoss Code No. <sup>2</sup>			
NTZ048A1LR1A	4547	120F0072	NTZ048A3LR1A	4490	120F0026	NTZ048A4LR1A	4490	120F0001	1¼ x 1	⅝ x ½	1
NTZ068A1LR1A	6649	120F0073	NTZ068A3LR1A	7518	120F0027	NTZ068A4LR1A	7518	120F0002	1¼ x 1	⅝ x ½	1
NTZ096A1LR1A	9155	120F0074	NTZ096A3LR1A	9110	120F0028	NTZ096A4LR1A	9110	120F0003	1¾ x 1¼	⅞ x ¾	2
NTZ108A1LR1A	10804	120F0075	NTZ108A3LR1A	10536	120F0029	NTZ108A4LR1A	10536	120F0004	1¾ x 1¼	⅞ x ¾	2
NTZ136A1LR1A	13900	120F0076	NTZ136A3LR1A	13900	120F0030	NTZ136A4LR1A	13900	120F0005	1¾ x 1¼	1⅛ x ¾	2
			NTZ215A3LR1A	21460	120F0031	NTZ215A4LR1A	21460	120F0006	1¾ x 1¼	1⅛ x ¾	4
			NTZ271A3LR1A	29788	120F0032	NTZ271A4LR1A	29788	120F0007	1¾ x 1¼	1⅛ x ¾	4

<sup>1</sup> Evaporator temperature = -25°F, condensing temperature = 105°F, superheat = 20°F, subcooling = 0°F

<sup>2</sup> Single compressor, threaded sight glass, 3/8" oil equalization connection

## Maneurop® Reciprocating MTZ Series Compressors

### Features

- Maneurop MTZ series hermetic reciprocating compressors are designed for medium and high evaporating temperature applications.
- The MTZ series is specifically designed for use with the HFC refrigerants R-407C, R-134a, R-404A, and R-507A, using 160PZ polyester oil as lubricant.
- Replacement for Trane Compressors

208/230-1-60		200/230-3-60		460-3-60		Nominal Capacity (Btu/h) <sup>2,3</sup>			Conn. Type Rotolock (In.)	Conn. with Supplied Sleeve (In. ODF)	No. Cylinders
Item ID	Danfoss Code No.	Item ID	Danfoss Code No.	Item ID	Danfoss Code No.	R-22	R-134a	R-404A / R-507			
MT18JA1PVE	MT18-1VI	MT18JA3MVE	MT18-3VI	MT18JA4BVE	MT18-4VI	15903			1 x 1	½ x ¾	1
MT22JC1TVE	MT22-1VI <sup>4</sup>	MT22JC3MVE	MT22-3VI	MT22JC4AVE	MT22-4VI	21975			1 x 1 <sup>(4)</sup>	½ x ¾ <sup>(4)</sup>	1
MT28JE1RVE	MT28-1VI <sup>4</sup>	MT28JE3MVE	MT28-3VI	MT28JE4AVE	MT28-4VI	30231			1 x 1 <sup>(4)</sup>	½ x ¾ <sup>(4)</sup>	1
MT32JF1MVE	MT32-1VI	MT32JF3EVE	MT32-3VI	MT32JF4DVE	MT32-4VI	33044			1¼ x 1	⅝ x ½	1
MT36JG1QVE	MT36-1VI	MT36JF3FVE	MT36-3VI	MT36JG4EVE	MT36-4VI	37992			1¼ x 1	⅝ x ½	1
MT40JH1NVE	MT40-1VI	MT40JH3FVE	MT40-3VI	MT40JH4EVE	MT40-4VI	42930			1¼ x 1	⅝ x ½	1
MT44HJ1FVE	MT44-1VI	MT44HJ3BVE	MT44-3VI	MT44HJ4AVE	MT44-4VI	43999			1¾ x 1¼	⅞ x ¾	2
MT50HK1GVE	MT50-1VI	MT50HK3CVE	MT50-3VI	MT50HK4BVE	MT50-4VI	50160			1¾ x 1¼	⅞ x ¾	2
MT56HL1EVE	MT56-1VI	MT56HL3BVE	MT56-3VI	MT56HL4AVE	MT56-4VI	56420			1¾ x 1¼	⅞ x ¾	2
MT64HM1FVE	MT64-1VI	MT64HM3DVE	MT64-3VI	MT64HM4CVE	MT64-4VI	64366			1¾ x 1¼	⅞ x ¾	2
		MT72HN3CVE	MT72-3VI	MT72HN4AVE	MT72-4VI	74561			1¾ x 1¼	⅞ x ¾	2
		MT80HP3CVE	MT80-3VI	MT80HP4AVE	MT80-4VI	84976			1¾ x 1¼	1⅛ x ¾	2
		MT100HS3DVE	MT100-3VI	MT100HS4DVE	MT100-4VI	95898			1¾ x 1¼	1⅛ x ¾	4
		MT125HU3DVE	MT125-3VI	MT125HU4DVE	MT125-4VI	124678			1¾ x 1¼	1⅛ x ¾	4
		MT144HV3VE	MT144-3VI	MT144HV4AVE	MT144-4VI	140697			1¾ x 1¼	1⅛ x ¾	4
		MT160HW3DVE	MT160-3VI	MT160GW4EVE	MT160-4VI	140697			1¾ x 1¼	1⅛ x ¾	4
MTZ18JA1AVE	MTZ18-1VI	MTZ18JA3AVE	MTZ18-3VI	MTZ18JA4BVE	MTZ18-4VI		11200	8980	1 x 1	½ x ¾	1
MTZ22JC1BVE	MTZ22-1VI <sup>4</sup>	MTZ22JC3AVE	MTZ22-3VI	MTZ22JC4AVE	MTZ22-4VI		14849	12306	1 x 1 <sup>(4)</sup>	½ x ¾ <sup>(4)</sup>	1
MTZ28JE1AVE	MTZ28-1VI <sup>4</sup>	MTZ28JE3AVE	MTZ28-3VI	MTZ28JE4AVE	MTZ28-4VI		19276	15986	1 x 1 <sup>(4)</sup>	½ x ¾ <sup>(4)</sup>	1
MTZ32JF1AVE	MTZ32-1VI	MTZ32JF3AVE	MTZ32-3VI	MTZ32JF4BVE	MTZ32-4VI		20949	17480	1¼ x 1	⅝ x ½	1
MTZ36JG1AVE	MTZ36-1VI	MTZ36JG3AVE	MTZ36-3VI	MTZ36JG4AVE	MTZ36-4VI		24482	20189	1¼ x 1	⅝ x ½	1
MTZ40JH1AVE	MTZ40-1VI	MTZ40JH3AVE	MTZ40-3VI	MTZ40JH4AVE	MTZ40-4VI		27864	23031	1¼ x 1	⅝ x ½	1
MTZ44HJ1AVE	MTZ44-1VI	MTZ44HJ3AVE	MTZ44-3VI	MTZ44HJ4AVE	MTZ44-4VI		30110	24323	1¾ x 1¼	⅞ x ¾	2
MTZ50HK1BVE	MTZ50-1VI	MTZ50HK3BVE	MTZ50-3VI	MTZ50HK4BVE	MTZ50-4VI		34538	28590	1¾ x 1¼	⅞ x ¾	2
MTZ56HL1BVE	MTZ56-1VI	MTZ56HL3BVE	MTZ56-3VI	MTZ56HL4AVE	MTZ56-4VI		38881	32451	1¾ x 1¼	⅞ x ¾	2
MTZ64HM1BVE	MTZ64-1VI	MTZ64HM3AVE	MTZ64-3VI	MTZ64HM4BVE	MTZ64-4VI		44404	36056	1¾ x 1¼	⅞ x ¾	2
		MTZ72HN3BVE	MTZ72-3VI	MTZ72HN4AVE	MTZ72-4VI		50000	40894	1¾ x 1¼	⅞ x ¾	2
		MTZ80HP3BVE	MTZ80-3VI	MTZ80HP4AVE	MTZ80-4VI		56336	46521	1¾ x 1¼	1⅛ x ¾	2
		MTZ100HS3VE	MTZ100-3VI	MTZ100HS4VE	MTZ100-4VI		63963	52953	1¾ x 1¼	1⅛ x ¾	4
		MTZ125HU3VE	MTZ125-3VI	MTZ125HU4VE	MTZ125-4VI		78906	68297	1¾ x 1¼	1⅛ x ¾	4
		MTZ144HV3VE	MTZ144-3VI	MTZ144HV4AVE	MTZ144-4VI		96936	80472	1¾ x 1¼	1⅛ x ¾	4
		MTZ160HW3VE	MTZ160-3VI	MTZ160HW4AVE	MTZ160-4VI		107631	87421	1¾ x 1¼	1⅛ x ¾	4

1. Evaporator temperature = -25°F, condensing temperature = 105°F, superheat = 20°F, subcooling = 0°F

2. Single compressor, threaded sight glass, 3/8" oil equalization connection

3. These compressor models have threaded sight glass and 3/8" flare oil equalization line.

4. Evaporator temperature = 45°F, condensing temperature = 130°F, superheat = 20°F, subcooling = 15°F.

5. To determine the nominal capacity for R-407C, visit [www.danfoss.com/odsg](http://www.danfoss.com/odsg).

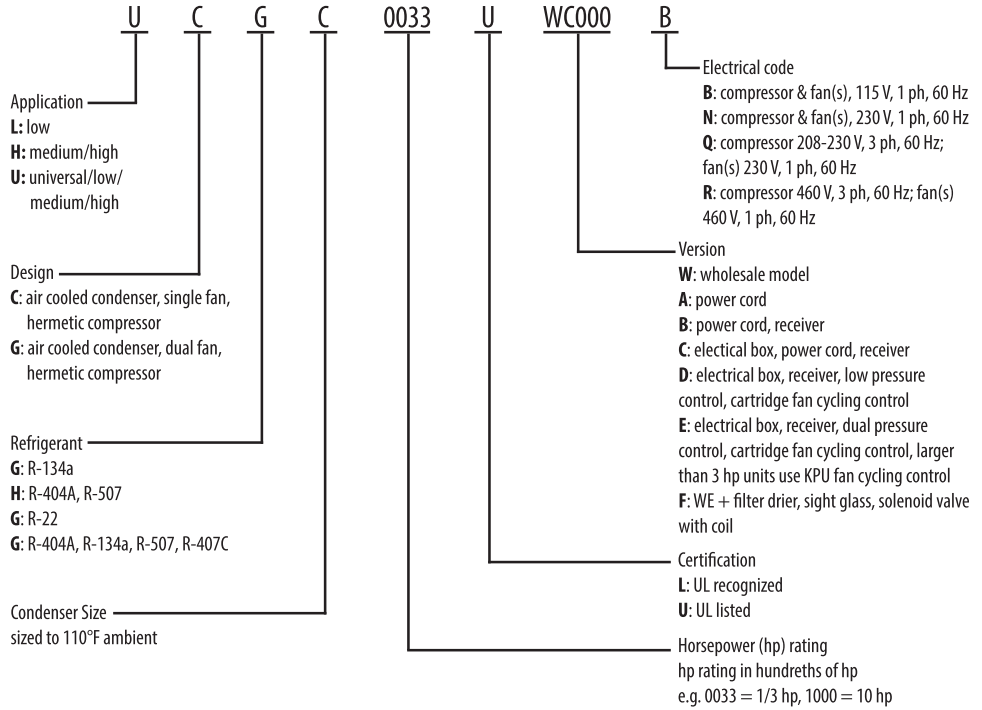
6. Actual connection for MTZ 22-28 (208-230/1/60) is rotolock 1 1/4" x 1" and connection with supplied sleeve is 5/8" x 1/2" ODF.



## Danfoss Refrigeration Condensing Units

### Features

- Broad range of fractional condensing units from 1/4 HP to 1 HP
- Designed for specific applications



Item ID	MFG #	Nominal H.P.	Volts-Phase-Hertz	BTU			Version Includes	Replaces	
				LT @ -10°F	MT @ 20°F	HT @ 45°F		Tecumseh	Copeland
<b>R134a</b>									
UCGC0020RWA000B	114N2017	1/5	115-1-60	—	1671	2699	Power Cord	AEA3417	M2FH0020
UCGC0025RWB000B	114N2019	1/4	115-1-60	—	1884	3029	Power Cord, Receiver	AEA4430	M2FH0026
HCGC0033UWC000B	114N2022	1/3	115-1-60	—	2431	3986	Electrical Box, Receiver, Power Cord	—	—
UCGC0050UWC000B	114N2024	1/2	115-1-60	—	3815	6249	Electrical Box, Receiver, Power Cord	AKA4460, AKA7437	M2FH0049
HCGC0055RWB000B	114N2025	5/8	115-1-60	—	5009	7374	Power Cord, Receiver	AKA4476	M2FH0056
HCGC0075UWC000B	114N2027	3/4	115-1-60	—	6470	11052	Electrical Box, Receiver, Power Cord	AJA4492	FTAHA074
HCGC0075UWC000N	114N2028	3/4	230-1-60	—	6470	11052	Electrical Box, Receiver, Power Cord	AJA4492	FTAHA074
HCGC0100UWD000N	114N2029	1	230-1-60	—	8491	12555	Electrical Box, Receiver, Low Pressure Control	AJA4512	FTAHA100, FTAHA101
<b>R404A</b>									
UCHC0020RWA000B	114N2316	1/5	115-1-60	764	1422	2098	Power Cord	—	—
UCHC0025RWB000B	114N2318	1/4	115-1-60	1303	2405	3635	Power Cord, Receiver	—	M4FH0025
UCHC0033RWB000B	114N2321	1/3	115-1-60	1577	2915	4340	Power Cord, Receiver	AKA9429	M4FHA036
UCHC0050RWB000B	114N2324	1/2	115-1-60	1959	3878	6030	Power Cord, Receiver	AKA9440	M4FH0050
UCHC0050UWC000N	114N2325	1/2	230-1-60	1959	3878	6030	Electrical Box, Receiver, Power Cord	AKA9440	M4FH0050
HCHC0075UWC000B	114N2330	3/4	115-1-60	—	6847	10113	Electrical Box, Receiver, Power Cord	AJA7465	FTAHA0074
HCHC0075UWC000N	114N2331	3/4	230-1-60	—	6847	10113	Electrical Box, Receiver, Power Cord	AJA7465	FTAHA0074
LCHC0075UWC000B	114N2337	3/4	115-1-60	3460	—	—	Electrical Box, Receiver, Power Cord	—	—
HCHC0100UWD000N	114N2332	1	230-1-60	—	6867	10928	Electrical Box, Receiver, Low Pressure Control	—	—
LCHC0100UWD000N	114N2339	1	230-1-60	5329	—	—	Electrical Box, Receiver, Low Pressure Control	AWA2448	FJALA100

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Danfoss Refrigeration Condensing Units



### Features

- Broad range of condensing units from 1 1/2 HP to 13 1/2 HP
- Designed for specific applications
- WF version includes: Electrical box, receiver, dual pressure control, fan cycling control, dual fan units larger than 3 HP use KPU fan cycling control, filter drier, sight glass, solenoid valve with coil.

Item ID	MFG #	Nominal H.P.	Volts-Phase-Hertz	BTU			Version Includes	Replaces	
				LT @ -10°F	MT @ 20°F	HT @ 45°F		Tecumseh	Copeland
<b>R404A</b>									
HCZC0150UWF300Q	114N6402	1 1/2	208/230-3-60Fan(s) 230-1-60	—	11135	18503	WF See Features	AWA7512	FJAMA125 FJAMA126 FJAMA150
HCZC0150UWF300R	114N6403	1 1/2	460-3-60	—	11153	18503	WF See Features	AWA7512	FJAMA125, FJAMA126, FJAMA150
HCZC0200UWF300N	114N6404	2	230-1-60	—	14286	22434	WF See Features	AWA7515	VJAF017H FJAMA200
HCZC0200UWF300Q	114N6405	2	208/230-3-60Fan(s) 230-1-60	—	14286	22434	WF See Features	AWA7515	VJAF017H FJAMA200
LCZC0201UWF300Q	114N6730	2	208/230-3-60Fan(s) 230-1-60	11757	—	—	WF See Features	—	—
HCZC0200UWF300R	114N6406	2	460-3-60	—	14286	22434	WF See Features	AWA7515	VJAF017H, FJAMA200
LCZC0200UWF300R	114N6731	2	460-3-60	11757	—	—	WF See Features	—	—
HCZC0250UWF300N	114N6408	2 1/2	230-1-60	—	18023	28532	WF See Features	—	—
HCZC0250UWF300Q	114N6409	2 1/2	208/230-3-60Fan(s) 230-1-60	—	18023	28532	WF See Features	—	—
HCZC0300UWF300N	114N6420	3	230-1-60	—	25514	40306	WF See Features	AWA7523	FJAMA300 VJAF030H FJAMA325
LCZC0301UWF300N	114N6709	3	230-1-60	16525	—	—	WF See Features	—	—
HCZC0300UWF300Q	114N6421	3	208/230-3-60Fan(s) 230-1-60	—	25514	40306	WF See Features	AWA7523	FJAMA300 VJAF030H FJAMA325
LCZC0301UWF300Q	114N6734	3	208/230-3-60Fan(s) 230-1-60	16525	—	—	WF See Features	—	—
LCZ0301UWF300R	114N6422	3	460-3-60	16525	—	—	WF See Features	—	—

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## Danfoss Refrigeration Condensing Units



### Features

- Broad range of condensing units from 1 1/2 HP to 13 1/2 HP
- Designed for specific applications
- WF version includes: Electrical box, receiver, dual pressure control, fan cycling control, dual fan units larger than 3 HP use KPU fan cycling control, filter drier, sight glass, solenoid valve with coil.

Item ID	MFG #	Nominal H.P.	Volts-Phase-Hertz	BTU			Version Includes	Replaces	
				LT @ -10°F	MT @ 20°F	HT @ 45°F		Tecumseh	Copeland
<b>R404A</b>									
HGZC0400UWF300N	114N6427	4	230-1-60	—	32798	53103	WF See Features	—	VJAF035Z* VJAF035H
HGZC0400UWF300Q	114N6428	4	208/230-3-60Fan(s) 230-1-60	—	32798	53103	WF See Features	—	VJAF035Z* VJAF035H
LGZC0401UWF300N	114N6737	4	230-1-60	23251	—	—	WF See Features	—	—
LGZC0401UWF300Q	114N6738	4	208/230-3-60Fan(s) 230-1-60	23251	—	—	WF See Features	—	—
LGZC0401UWF300R	114N6739	4	460-3-60	23251	—	—	WF See Features	—	—
HGZC0500UWF300N	114N6435	5	230-1-60	—	38902	61623	WF See Features	—	FJAMB400 VJAF040Z* VJAF040H FJAMB500 VJAF050Z*
HGZC0500UWF300Q	114N6436	5	208/230-3-60Fan(s) 230-1-60	—	38902	61623	WF See Features	—	FJAMB400 VJAF040Z* VJAF040H FJAMB500 VJAF050Z*
LGZC0601UWF300Q	114N6741	6	208/230-3-60	34487	—	—	WF See Features	—	—
LGZC0601UWF300R	114N6742	6	460-3-60	34487	—	—	WF See Features	—	—
LGZC0751UWF300Q	114N6744	7 1/2	208/230-3-60	43286	—	—	WF See Features	—	—
LGZC0751UWF300R	114N6745	7 1/2	460-3-60	43286	—	—	WF See Features	—	—
HGZC1000UWF300Q	114N6445	10	208/230-3-60	—	79372	115042	WF See Features	—	FJAH100Z
HGZC1000UWF300R	114N6446	10	460-3-60	—	79372	115042	WF See Features	—	FJAH100Z

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## CH Series - Liquid Chillers



### Applications

- 1/2 - 80 tons

### Features

- Easy to install
- Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
  - Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5" x 12" Models (4.9"W x 13.2"H)</b>						
CH1/2AW	1/2	5/8	5/8	7/8	1.1	5.9
CH3/4AW	3/4	5/8	5/8	7/8	1.3	6.4
CH1AW	1	5/8	5/8	7/8	1.4	7.0
CH2AW	2	5/8	5/8	7/8	2.1	9.3
CH2-1/2AW	2 1/2	5/8	5/8	7/8	2.5	10.5
CH3AW	3	5/8	5/8	7/8	3.0	12.2
CH3-1/2AW	3 1/2	5/8	7/8	7/8	3.5	14.0
CH4AW	4	5/8	7/8	1 1/8	4.2	16.3
CH5AW	5	5/8	7/8	1 1/8	5.1	19.2
<b>5" x 20" Models (4.9"W x 20.9"H)</b>						
CH1-1/2W	1 1/2	5/8	5/8	7/8	1.1	7.6
CH2W	2	5/8	5/8	7/8	1.3	8.5
CH3W	3	5/8	5/8	7/8	1.6	10.3
CH4W	4	5/8	7/8	1 1/8	2.1	13.1
CH5W	5	5/8	7/8	1 1/8	2.5	14.9
CH6W	6	7/8	1 1/8	1 1/8	3.0	17.7
CH7-1/2W	7 1/2	7/8	1 1/8	1 1/8	3.9	22.3
CH10BW	10	7/8	1 3/8	1 3/8	4.8	26.9
CH12BW	12	7/8	1 3/8	1 3/8	5.7	31.5
CH15BW	15	7/8	1 3/8	1 3/8	6.5	36.1
<b>10" x 20" Models (11.1"W x 21.4"H)</b>						
CH10G	10	7/8	1 3/8	1 5/8	2.5	48.0
CH12G	12	7/8	1 3/8	1 5/8	3.1	54.0
CH15G	15	7/8	1 3/8	1 5/8	4.0	64.0
CH20G	20	7/8	1 3/8	1 5/8	4.9	74.0
CH25G	25	1 1/8	2 1/8	2 1/8	5.8	85.0
CH30G	30	1 1/8	2 1/8	2 1/8	6.7	95.0
CH35G	35	1 1/8	2 1/8	2 5/8	8.5	115.0
CH40G	40	1 1/8	2 1/8	2 5/8	9.4	125.0
CH50G	50	1 1/8	2 1/8	2 5/8	12.1	156.0

Maximum Allowable Working Pressure: 450 psig (31 Bar)

## CH-XP Series - High Pressure Liquid Chillers



### Applications

- Designed for R-410a Applications, 1/2 to 80 tons, can be used with other refrigerants as well.

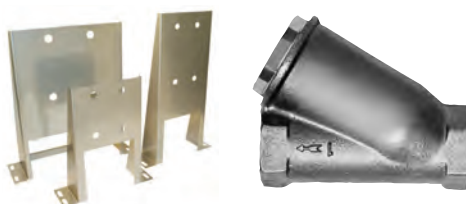
### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
  - Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5" x 12" Models (4.9"W x 13.2"H)</b>						
CH1/2AW-XP	1/2	5/8	5/8	7/8	1.1	5.9
CH3/4AW-XP	3/4	5/8	5/8	7/8	1.3	6.4
CH1AW-XP	1	5/8	5/8	7/8	1.4	7.0
CH2AW-XP	2	5/8	5/8	7/8	2.1	9.3
CH2-1/2AW-XP	2 1/2	5/8	5/8	7/8	2.5	10.5
CH3AW-XP	3	5/8	5/8	7/8	3.0	12.2
CH3-1/2AW-XP	3 1/2	5/8	7/8	7/8	3.5	14.0
CH4AW-XP	4	5/8	7/8	1 1/8	4.2	16.3
CH5AW-XP	5	5/8	7/8	1 1/8	5.1	19.2
<b>5" x 20" Models (4.9"W x 20.9"H)</b>						
CH1-1/2W-XP	1 1/2	5/8	5/8	7/8	1.1	7.6
CH2W-XP	2	5/8	5/8	7/8	1.3	8.5
CH3W-XP	3	5/8	5/8	7/8	1.6	10.3
CH4W-XP	4	5/8	7/8	1 1/8	2.1	13.1
CH5W-XP	5	5/8	7/8	1 1/8	2.5	14.9
CH6W-XP	6	7/8	1 1/8	1 1/8	3.0	17.7
CH7-1/2W-XP	7 1/2	7/8	1 1/8	1 1/8	3.9	22.3
CH10BW-XP	10	7/8	1 3/8	1 3/8	4.8	26.9
CH12BW-XP	12	7/8	1 3/8	1 3/8	5.7	31.5
CH15BW-XP	15	7/8	1 3/8	1 3/8	6.5	36.1
<b>10" x 20" Models (9.8"W x 20.3"H)</b>						
CH10-XP	10	7/8	1 3/8	1 5/8	2.6	81.0
CH15-XP	15	7/8	1 3/8	1 5/8	4.1	97.0
CH20-XP	20	7/8	1 5/8	1 5/8	5.0	107.0
CH25-XP	25	1 1/8	1 5/8	2 1/8	5.9	117.0
CH30-XP	30	1 1/8	1 5/8	2 1/8	6.8	128.0

Maximum Allowable Working Pressure: 650 psig (45 Bar)

**Don't Forget!**  
Mounting Accessories  
See page 169



## 2C Series - Two Refrigerant Liquid Chillers



### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>2 Circuit 10" x 20" Models (9.8"W x 20.3"H) - Low Pressure</b>						
CH10-2C	10	7/8	1 1/8	1 1/2" MPT	2.7	64.1
CH15-2C	15	7/8	1 1/8	1 1/2" MPT	3.8	76.7
CH30-2C	30	7/8	1 1/8	1 1/2" MPT	7.0	115.0
CH35-2C	34	7/8	1 1/8	1 1/2" MPT	8.5	131.0
CH50-2C	50	1 1/8	1 1/2	2 1/2 MPT	12.1	173.0
CH60-2C	60	1 1/8	2 1/8	2 1/2 MPT	13.9	194.0
<b>2 Circuit 10" x 20" Models (9.8"W x 20.3"H) - High Pressure XP</b>						
CH10-2C-XP	10	7/8	1-1/8	1-1/2" MPT	2.8	91
CH15-2C-XP	15	7/8	1-1/8	1-1/2" MPT	3.9	104
CH20-2C-XP	20	7/8	1-3/8	1-1/2" MPT	5	116
CH25-2C-XP	25	7/8	1-3/8	2" MPT	6.1	128
CH30-2C-XP	30	7/8	1-3/8	2" MPT	7.1	140
CH35-2C-XP	35	7/8	1-3/8	2" MPT	8.4	155
CH40-2C-XP	40	7/8	1-5/8	2-1/2" MPT	9.7	169
CH50-2C-XP	50	1-1/8	1-5/8	2-1/2" MPT	12.2	197
CH60-2C-XP	60	1-1/8	2-1/8	2-1/2" MPT	14	218

Maximum Allowable Working Pressure: 650 psig (45 Bar)

## C Series - Liquid Condensers



### Applications

- 1/2 - 80 tons

### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5' x 12" Models (4.9"W x 13.2"H)</b>						
C1/2AW	1/2	5/8	5/8	7/8	1.1	5.9
C3/4AW	3/4	5/8	5/8	7/8	1.3	6.4
C1AW	1	5/8	5/8	7/8	1.4	7.0
C2AW	2	5/8	5/8	7/8	2.1	9.3
C2-1/2AW	2 1/2	5/8	5/8	7/8	2.5	10.5
C3AW	3	5/8	5/8	7/8	3.0	12.2
C3-1/2AW	3 1/2	5/8	5/8	7/8	3.5	14.0
C4AW	4	7/8	5/8	1 1/8	4.2	16.3
C5AW	5	7/8	5/8	1 1/8	5.1	19.2
<b>5' x 20" Models (4.9"W x 20.9"H)</b>						
C2W	2	5/8	5/8	7/8	1.3	8.5
C3W	3	5/8	5/8	7/8	1.6	10.3
C4W	4	7/8	5/8	1 1/8	2.0	12.2
C5W	5	7/8	5/8	1 1/8	2.3	14.0
C6W	6	7/8	5/8	1 1/8	2.5	14.9
C7-1/2W	7 1/2	1 1/8	7/8	1 1/8	3.0	17.7
C10W	10	1 1/8	7/8	1 3/8	3.9	22.3
C12BW	12	1 3/8	7/8	1 3/8	4.8	26.9
C15BW	15	1 3/8	7/8	1 3/8	5.7	31.5
<b>10' x 20" Models (11.1"W x 21.4"H)</b>						
C15G	15	1 3/8	7/8	1 5/8	4.0	64.0
C20G	20	1 5/8	1 1/8	1 5/8	4.9	74.0
C25G	25	1 5/8	1 1/8	2 1/8	5.8	85.0
C40G	40	2 2/8	1 1/8	2 5/8	9.4	125.0
C50G	50	2 5/8	1 1/8	2 5/8	12.1	156.0

Maximum Allowable Working Pressure: 450 psig (31 Bar)



## C-XP Series - High Pressure Liquid Condensers



### Applications

- Designed for R-410A applications, 1/2 to 80 tons, can be used with other refrigerants as well

### Features

- Easy to install
- Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5" x 12" Models (4.9"W x 13.2"H)</b>						
C1/2AW-XP	1/2	5/8	5/8	7/8	1.1	5.9
C3/4AW-XP	3/4	5/8	5/8	7/8	1.3	6.4
C1AW-XP	1	5/8	5/8	7/8	1.4	7.0
C2AW-XP	2	5/8	5/8	7/8	2.1	9.3
C2-1/2AW-XP	2 1/2	5/8	5/8	7/8	2.5	10.5
C3AW-XP	3	5/8	5/8	7/8	3.0	12.2
C3-1/2A-XP	3 1/2	5/8	5/8	7/8	3.5	14.0
C4AW-XP	4	7/8	5/8	1 1/8	4.2	16.3
C5AW-XP	5	7/8	5/8	1 1/8	5.1	19.2
<b>5" x 20" Models (4.9"W x 20.9"H)</b>						
C2W-XP	2	5/8	5/8	7/8	1.3	8.5
C3W-XP	3	5/8	5/8	7/8	1.6	10.3
C4W-XP	4	7/8	5/8	1 1/8	2.0	12.2
C5W-XP	5	7/8	5/8	1 1/8	2.3	14.0
C6W-XP	6	7/8	5/8	1 1/8	2.5	14.9
C7W-1/2-XP	7 1/2	1 1/8	7/8	1 1/8	3.0	17.7
C10W-XP	10	1 1/8	7/8	1 3/8	3.9	22.3
C12BW-XP	12	1 3/8	7/8	1 3/8	4.8	26.9
C15BW-XP	15	1 3/8	7/8	1 3/8	5.7	31.5

Maximum Allowable Working Pressure: 650 psig (45 Bar)

## SC Series - Subcoolers



### Applications

- 1 to 120 tons

### Features

- Easy to install - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
- Fully brazed construction handles high operating pressures.
- Copper brazed 316L stainless heat transfer plates
- Proven and Reliable

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5" x 12" Models (4.9"W x 13.2"H)</b>						
SC1W	1	5/8	7/8	1 1/8	1.1	5.9
SC2W	2	5/8	7/8	1 1/8	1.4	7.0
SC4W	4	5/8	7/8	1 1/8	2.1	9.3
SC5W	5	7/8	1 1/8	1 1/8	2.3	9.9
SC7W	7 1/2	7/8	1 1/8	1 1/8	3.0	12.2
SC8W	8	7/8	1 3/8	1 3/8	3.5	14.0
SC10W	10	7/8	1 3/8	1 3/8	3.9	15.1
SC12W	12	7/8	1 3/8	1 3/8	4.8	18.0
SC14W	14	7/8	1 3/8	1 3/8	5.7	20.9
<b>10" x 20" Models (11.1"W x 21.4"H)</b>						
SC16G	16	1 1/8	1 5/8	2 1/8	2.3	33.0
SC22G	22	1 1/8	1 5/8	2 1/8	3.3	44.0
SC28G	28	1 1/8	2 1/8	2 5/8	4.2	55.0

Maximum Allowable Working Pressure: 450 psig (31 Bar)

## SC-XP Series - High Pressure Subcoolers



### Applications

- Designed for R-410A Applications, 1 to 120 tons, can be used with other refrigerants as well

Item ID	Nominal Tons	Standard Connections			Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)	Fluid (IDS)		
<b>5" x 12" Models (4.9"W x 13.2"H)</b>						
SC1W-XP	1	5/8	7/8	1 1/8	1.1	5.9
SC2W-XP	2	5/8	7/8	1 1/8	1.4	7.0
SC4W-XP	4	5/8	7/8	1 1/8	2.1	9.3
SC5W-XP	5	7/8	1 1/8	1 1/8	2.3	9.9
SC7W-XP	7 1/2	7/8	1 1/8	1 1/8	3.0	12.2
SC8W-XP	8	7/8	1 3/8	1 3/8	3.5	14.0
SC10W-XP	10	7/8	1 3/8	1 3/8	3.9	15.1
SC12W-XP	12	7/8	1 3/8	1 3/8	4.8	18.0
SC14W-XP	14	7/8	1 3/8	1 3/8	5.7	20.9

Maximum Allowable Working Pressure: 650 psig (45 Bar)

## Liquid Heat Exchangers



### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Copper brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>3" x 8" Models (3.38"W x 8.90"H)*</b>			
FG3X8-10	3/4" MPT	1.3	2.9
FG3X8-20	3/4" MPT	2.1	4.1
FG3X8-30	3/4" MPT	3.0	5.3
FG3X8-40	3/4" MPT	3.9	6.5
FG3X8-50	3/4" MPT	4.8	7.7
<b>5" x 12" Models (4.9"W x 13.2"H)</b>			
FW5X12-6	3/4" MPT	0.9	5.3
FW5X12-8	3/4" MPT	1.1	7.9
FW5X12-10	3/4" MPT	1.3	6.4
FW5X12-12	3/4" MPT	1.4	7.0
FW5X12-14	3/4" MPT	1.6	9.6
FW5X12-16	3/4" MPT	1.8	10.2
FW5X12-20	1 MPT	2.1	11.3
FW5X12-24	1 MPT	2.5	12.5
FW5X12-30	1 1/4 MPT	3.0	14.2
FW5X12-36	1 1/4 MPT	3.5	16.0
FW5X12-40	1 1/4 MPT	3.9	17.1
FW5X12-50	1 1/4 MPT	4.8	20.0
FW5X12-60	1 1/4 MPT	5.7	22.9
FW5X12-70	1 1/4 MPT	6.5	25.8
FW5X12-80	1 1/4 MPT	7.4	28.7
FW5X12-90	1 1/4 MPT	8.3	31.6
FW5X12-100	1 1/4 MPT	9.2	34.5
FW5X12-110	1 1/4 MPT	10.1	37.4
FW5X12-120	1 1/4 MPT	10.9	40.3

Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>5" x 20" Models (4.9"W x 20.9"H)</b>			
FW5X20-8	3/4" MPT	1.1	7.6
FW5X20-10	3/4" MPT	1.3	8.5
FW5X20-14	3/4" MPT	1.6	10.3
FW5X20-20	1 MPT	2.1	13.1
FW5X20-24	1 MPT	2.5	14.9
FW5X20-30	1 MPT	3.0	17.7
FW5X20-36	1 MPT	3.5	20.4
FW5X20-40	1 1/4 MPT	3.9	22.3
FW5X20-50	1 1/4 MPT	4.8	26.9
FW5X20-60	1 1/4 MPT	5.7	31.5
FW5X20-70	1 1/4 MPT	6.5	36.1
FW5X20-80	1 1/4 MPT	7.4	40.7
FW5X20-90	1 1/4 MPT	8.3	45.3
FW5X20-100	1 1/4 MPT	9.2	49.9
FW5X20-110	1 1/4 MPT	10.1	54.5
FW5X20-120	1 1/4 MPT	10.9	59.1
<b>10" x 20" Models (11.1"W x 21.4"H)*</b>			
FG10X20-24	1 1/2 MPT	2.5	47.9
FG10X20-36	1 1/2 MPT	3.6	60.2
FG10X20-50	2 MPT	4.9	74.4
FG10X20-60	2 MPT	5.8	84.6
FG10X20-80	2 MPT	7.6	105.0
FG10X20-100	2 1/2 MPT	9.4	125.4
FG10X20-110	2 1/2 MPT	11.2	145.8

Maximum Allowable Working Pressure: 450 psig (31 Bar)

Maximum Allowable Working Pressure: 450 psig (31 Bar)

\*ASME May Be Available

## Liquid Low Pressure Drop Heat Exchangers



### Features

- Copper Brazed - Stainless Steel Plates
- Easy to install
- High Performance
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>5" x 12" L Models (4.9"W x 12.2"H)</b>			
FP5X12L-8	3/4" MPT	1.1	5.0
FP5X12L-16	1 MPT	1.8	7.6
FP5X12L-24	1 1/4 MPT	2.5	10.1
<b>10" x 20" L Models (9.8"W x 20.3"H)</b>			
FP10X20L-30	2 1/2 MPT	3.1	54.0

Maximum Allowable Working Pressure: 300 psig (20.7 Bar)



## All Stainless Steel, Nickel-Chrome Brazed Liquid Heat Exchanger



### Features

- Nickel-Chrome brazed with Studs
- Easy to install
- High Performance
- Proven and Reliable
- UL listed and ASME Section VIII available
- Every heat exchanger is tested before it leaves the plant

Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>5" x 12" L Models (4.9"W x 12.2"H)</b>			
FPN5X12-10	3/4 MPT	1.3	5.7
<b>10" x 20" L Models (9.8"W x 20.3"H)</b>			
FPN10X20-20	1 1/2 MPT	2.2	43.8

Maximum Allowable Working Pressure: 300 psig (20.7 Bar)

## Marine Grade Stainless Steel, Nickel-Chrome Brazed Liquid Heat Exchanger

### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Nickel-Chrome Marine Grade Stainless Steel Heat Transfer Plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant



Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>5" x 12" Models (4.9"W x 12.2"H)</b>			
MPN5X12-10	1 MPT	1.2	9.8
MPN5X12-16	1 MPT	1.8	11.4
MPN5X12-20	1 1/4 MPT	2.1	12.7
MPN5X12-36	1 1/4 MPT	3.6	17.8
MPN5X12-50	1 1/4 MPT	4.9	19.0

Maximum Allowable Working Pressure: 300 psig (20.7 Bar)

## Double Wall, Liquid Heat Exchangers

### Features

- Copper Brazed - Stainless Steel Plates, With Studs
- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
  - Choice of brazing materials (copper or nickel-chrome) broadens the range of media possible.
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant



Item ID	Standard Connection	Depth (in.)	Weight (lbs.)
<b>5" x 13" Models (4.9"W x 13.1"H)</b>			
DW5X12-10	1 MPT	1.5	6.6
DW5X12-30	1 MPT	3.3	12.6
DW5X12-80	1 1/4 MPT	8.0	27.6

Maximum Allowable Working Pressure: 450 psig (31 Bar)

## CHN Series - All Stainless Steel Liquid Chillers



### Features

- Easy to install
  - Compact size means it fits easily into confined spaces, especially when replacing a much larger shell-and tube heat exchanger
- High Performance
  - High turbulence created by corrugations in the plates results in closer approach temperatures with much smaller units.
  - Fully brazed construction handles high operating pressures.
- Nickel-chrome brazed 316L stainless heat transfer plates
- Proven and Reliable
  - UL listed and ASME Section VIII available
  - Every heat exchanger is tested before it leaves the plant

Item ID	Nominal Tons	Standard Connections		Fluid (IDS)	Depth (in.)	Weight (lbs.)
		Ref in (IDS)	Ref out (IDS)			
<b>5" x 12" Models (4.9"W x 12.2"H)</b>						
CHN1/2A	1/2	5/8	5/8	1" MPT	1.1	5.0
CHN2A	2	5/8	5/8	1" MPT	2.2	8.9
CHN3A	3	5/8	5/8	1" MPT	3.1	12.1
<b>10" x 20" Models (9.8"W x 20.3"H)</b>						
CHN20	20	7/8	1 5/8	1 1/2" MPT	4.9	74.4
CHN35	35	1 1/8	2 1/8	2 1/2" MPT	8.5	115.0

Maximum Allowable Working Pressure: 300 psig (20.7 Bar)

## Mounting Brackets

### Features

- Holding a brazed plate heat exchanger in place while you pipe it up can be a difficult challenge, especially with sweat connections. FlatPlate makes this easy to prevent. Every FlatPlate brazed plate heat exchanger is equipped as standard with mounting studs which allow the use of our proprietary mounting brackets.
- Bracket is made of AISI 304 Stainless Steel.



Model	Description	Weight (In.)
<b>FlatPlate</b>		
BKT5X12	1	1.1
BKT5X20	2	2.2
BKT10X20	5	3.1
FR10X20	10	4.9

## Y Strainers

### Features

- It is important to keep the liquid media clean to reduce fouling and clogging of the FlatPlate heat exchanger. In some cases, it is a requirement for operation of the system. We stock sizes up to 2-1/2".
- Construction material is cast bronze
- They are rated for working pressure of 400 psig at 150°F.
- Connections at both ends are Female Pipe Thread (FPT).
- The 20 mesh filter is removable and cleanable.



Model	Pipe Connection	Mesh	GPM @ 1 psi PD	GPM @ 2 psi PD	Weight (lbs.)
<b>FlatPlate</b>					
STR3/4	3/4" FPT	20	18	26	4
STR1	1" FPT	20	28	40	5
STR1-1/4	1-1/4" FPT	20	42	60	5
STR1-1/2	1-1/2" FPT	20	70	100	8
STR2	2" FPT	20	110	140	10
STR2-1/2	2 1/2" FPT	20	140	190	10
STR3	3" FPT	20	180	260	20
STR4	4" FPT	20	300	420	36



# SOLUTIONS MATTER


BUILD AN END-TO-END COMMERCIAL REFRIGERATION SOLUTION WITH ONE-STOP SHOPPING.

**EVR SOLENOID VALVES**



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**TXV TYPE TUA/TUAE**



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**DCL FILTER DRIERS**



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**GBC/BML BALL VALVES**

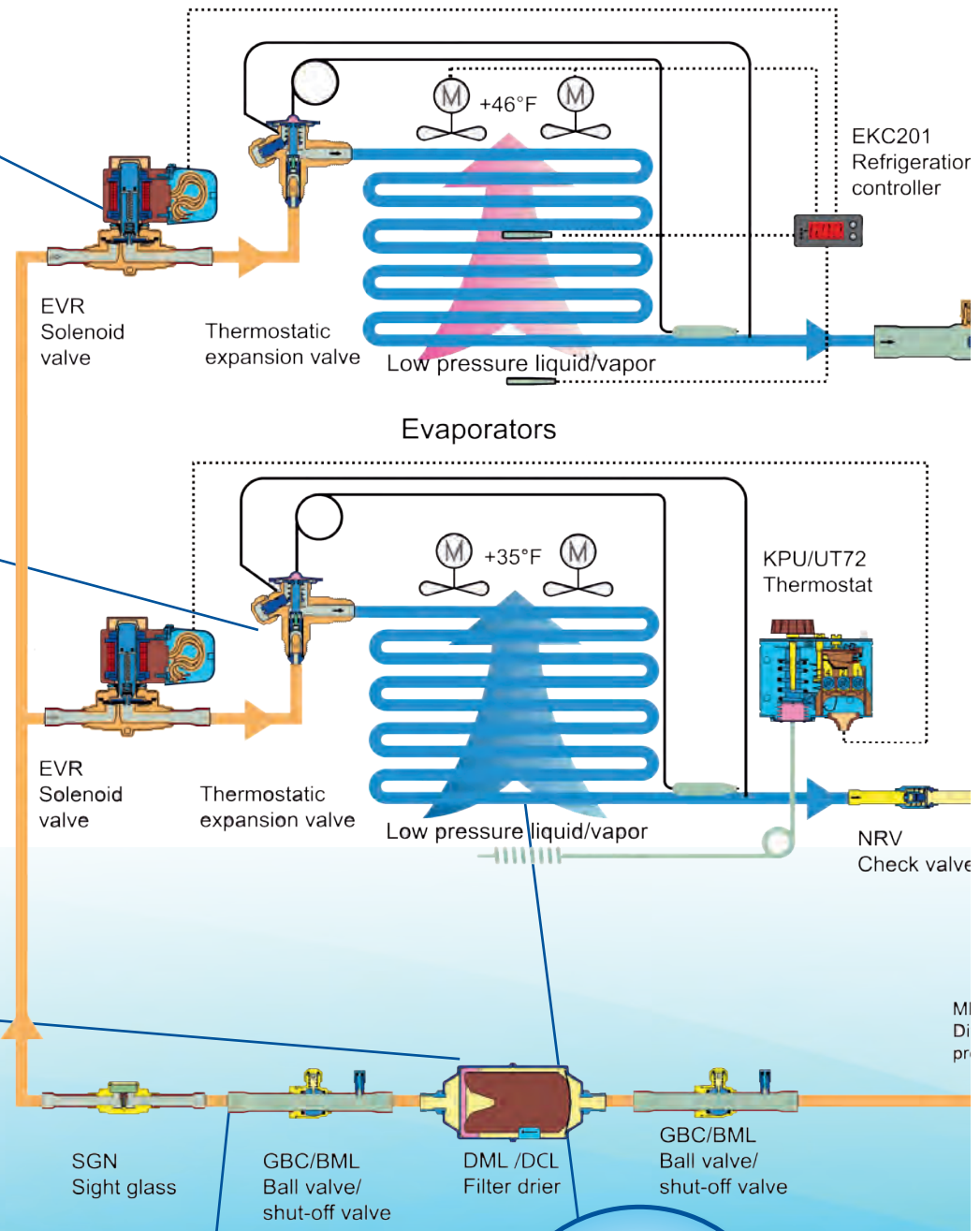


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**HEAT EXCHANGER**



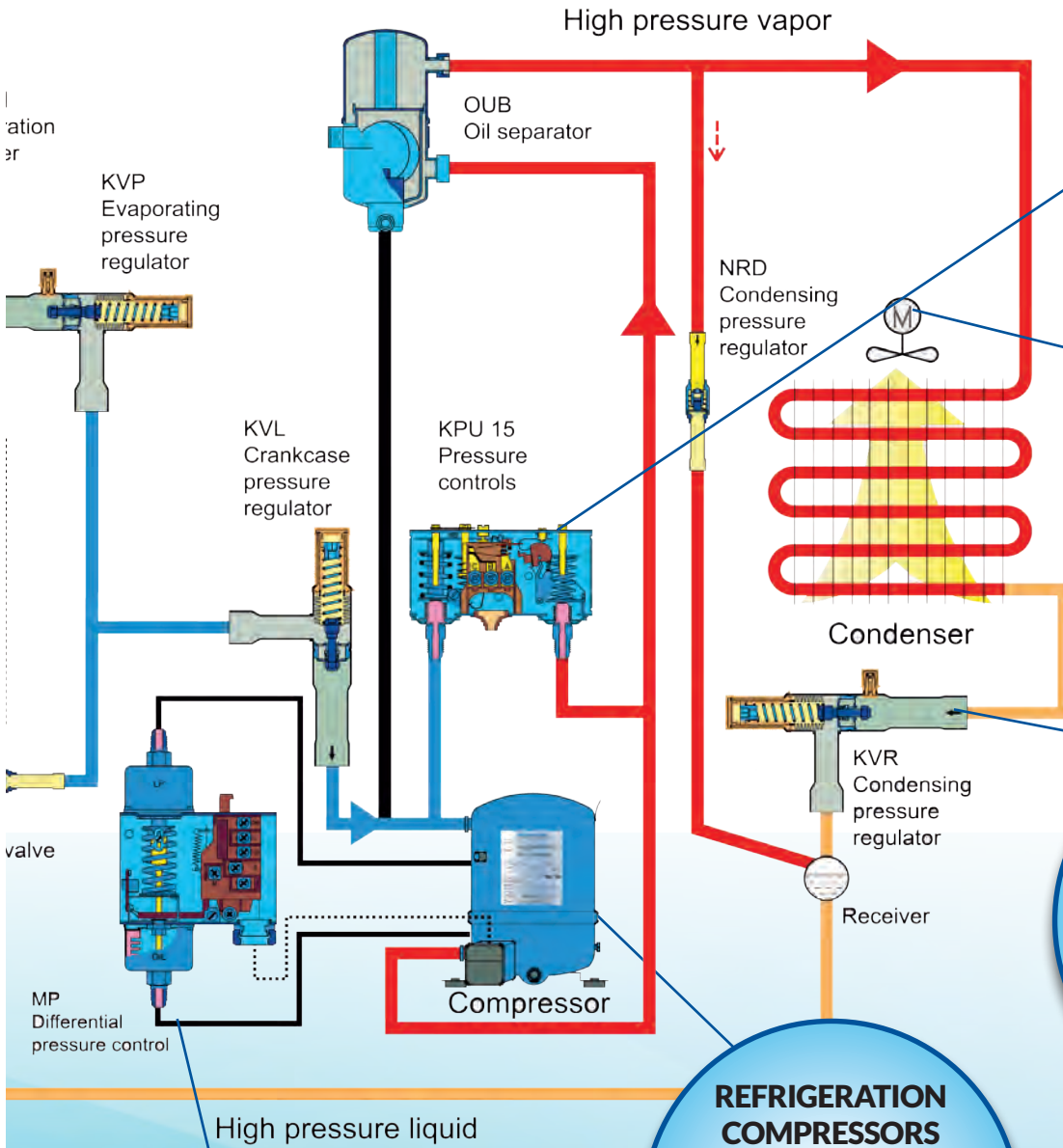
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Packard supplies virtually every line component and control found in commercial refrigeration systems. Combine these with our huge selection of evaporator motors and commercial and industrial refrigeration compressors, and you have the complete package.

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**KPU PRESSURE CONTROLS**

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**EVAPORATOR MOTORS**

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**PRESSURE REGULATORS**

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**REFRIGERATION COMPRESSORS**

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**OIL PRESSURE CONTROLS**

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*Danfoss*

**BRISTOL**  
COMPRESSORS™

## Danfoss TUA/TUAE Series Expansion Valves, Bodies and Orifices

### 1. Valve Body Selection

Equalization	R-22	R-404A	R-134a
Internal	<b>068U2235</b>	<b>068U2285</b>	<b>068U2205</b>
External	<b>068U2237</b>	<b>068U2287</b>	<b>068U2207</b>

All valves above have 3/8" x 1/2" solder ODF connections and are designed for evaporator temperatures -40°F to 50°F (N charge). Other variations available upon request.



### 2. Orifice Selection

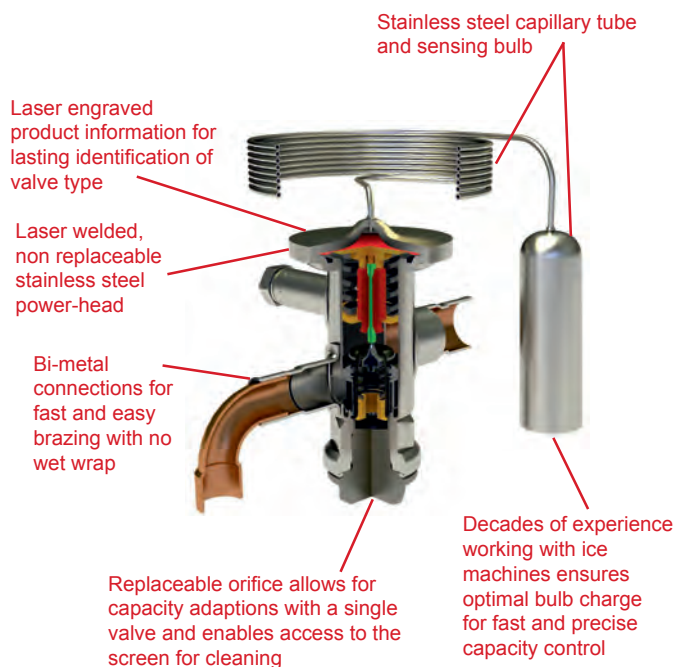
TUA/TUAE valve capacities are based on the installed orifice. To select the correct size, use one of the two methods below:

A. System characteristics: Select the orifice using appropriate refrigerant, evaporator temperature, and system capacity.

OR

B. Nominal capacity of the installed valve; Use the nominal capacity of the originally installed valve and match with the nominal capacity in chart (3rd. column from left.)

**IF EXACT CAPACITY IS NOT FOUND, USE NEXT LARGER ORIFICE**



R-22		Evaporator Temperature (°F)									
Orifice Size	Item ID	Nominal capacity of installed valve <sup>1</sup> (tons)	Rated Capacity <sup>2</sup> (tons)								
			-40	-30	-20	-10	0	25	35	45	
0	<b>068U1030</b>	1/5	1/10	1/10	1/10	1/8	1/8	1/6	1/6	1/6	
1	<b>068U1031</b>	1/4	1/10	1/8	1/8	1/6	1/6	1/4	1/4	1/4	
2	<b>068U1032</b>	1/3	1/8	1/8	1/6	1/6	1/5	1/4	1/4	1/3	
3	<b>068U1033</b>	1/2	1/6	1/6	1/4	1/4	1/3	1/3	1/3	1/2	
4	<b>068U1034</b>	3/4	1/4	1/4	1/3	1/3	1/2	1/2	1/2	3/4	
5	<b>068U1035</b>	1	1/3	1/3	1/2	1/2	1/2	3/4	3/4	1	
6	<b>068U1036</b>	1 1/2	1/2	1/2	3/4	3/4	3/4	1	1	1 1/2	
7	<b>068U1037</b>	2	3/4	3/4	1	1	1	1 1/2	1 1/2	2	
8	<b>068U1038</b>	3	1	1 1/4	1 1/2	1 3/4	2	2 1/2	2 1/2	3	
9	<b>068U1039</b>	4 1/2	1 1/2	1 3/4	2	2 1/2	3	4	4 1/4	4 1/2	

R-134a		Evaporator Temperature (°F)									
Orifice Size	Item ID	Nominal capacity of installed valve <sup>1</sup> (tons)	Rated Capacity <sup>2</sup> (tons)								
			-40	-30	-20	-10	0	25	35	45	
0	<b>068U1030</b>	1/8	1/20	1/15	1/15	1/10	1/10	1/10	1/8	1/8	
1	<b>068U1031</b>	1/5	1/20	1/15	1/15	1/10	1/8	1/6	1/5	1/6	
2	<b>068U1032</b>	1/4	1/15	1/15	1/10	1/8	1/8	1/5	1/4	1/4	
3	<b>068U1033</b>	1/3	1/10	1/10	1/8	1/6	1/6	1/4	1/3	1/3	
4	<b>068U1034</b>	1/2	1/8	1/6	1/6	1/4	1/3	1/2	1/2	1/2	
5	<b>068U1035</b>	3/4	1/6	1/4	1/4	1/3	1/3	1/2	3/4	3/4	
6	<b>068U1036</b>	1	1/4	1/3	1/3	1/2	1/2	1	1	1 1/4	
7	<b>068U1037</b>	1 1/2	1/3	1/2	1/2	3/4	3/4	1 1/4	1 1/3	1 1/2	
8	<b>068U1038</b>	2	1/2	3/4	3/4	1	1 1/3	2	2	2 1/3	
9	<b>068U1039</b>	3	3/4	1	1 1/3	1 1/2	2	3	3 1/4	3 1/2	

R-404A		Evaporator Temperature (°F)									
Orifice Size	Item ID	Nominal capacity of installed valve <sup>1</sup> (tons)	Rated Capacity <sup>2</sup> (tons)								
			-40	-30	-20	-10	0	25	35	45	
0	<b>068U1030</b>	1/8	1/20	1/15	1/15	1/10	1/10	1/10	1/8	1/8	
1	<b>068U1031</b>	1/5	1/15	1/15	1/10	1/8	1/8	1/6	1/6	1/6	
2	<b>068U1032</b>	1/4	1/10	1/10	1/8	1/8	1/6	1/4	1/4	1/4	
3	<b>068U1033</b>	1/3	1/8	1/8	1/6	1/6	1/4	1/3	1/3	1/3	
4	<b>068U1034</b>	1/2	1/6	1/5	1/4	1/3	1/3	1/2	1/2	1/2	
5	<b>068U1035</b>	3/4	1/4	1/4	1/3	1/3	1/2	1/2	3/4	3/4	
6	<b>068U1036</b>	1	1/3	1/3	1/2	1/2	3/4	1	1	1	
7	<b>068U1037</b>	1 1/2	1/2	1/2	3/4	3/4	1	1 1/3	1 1/2	1 1/2	
8	<b>068U1038</b>	2 1/2	3/4	1	1	1 1/3	1 1/2	2	2 1/4	2 1/2	
9	<b>068U1039</b>	3 1/2	1	1 1/3	1 1/2	2	2 1/4	3	3 1/3	3 1/2	



## Thermostatic Expansion Valve Service Kits

### Features

- Ideal for after hours service calls
- No more recalls for unstocked valves on after hour calls
- Factory superheat setting - adjustment wrench included
- Sizing and selection chart included
- Durable fitted case that is easy to refill at your convenience



Item ID	Description
000MMK-I (068Z7100)	Flare valves only T2, TE2 valves only
000MMK-U (068U7000)	Solder valves only TUA, TUAE valves only

Item ID	Description
MAXIMIZER (068U7001)	Flare and Solder valves T2, TE2, TUA and TUAE valves

## Thermostatic Expansion Valves for Ice Machines, Type TUA

### Application

TUA universal thermostatic expansion valve kits for ice machines. These kits are designed with the contractor in mind to help save time and money by providing a universal valve that can easily be adapted to replace most OEM specific thermostatic expansion valves.

### Features

- Can easily be adapted to replace most OEM specific thermostatic expansion valves
- **Used in Manitowac and other Ice Machines**
- Each kit includes an exchangeable orifice valve and a selection of (3) orifice sizes covering ice machines ranging from 75 to 2300 pounds of ice per day
- The kits also include copper fittings (2 elbows and 1 reducer), copper bulb strap, insulation tape and instructions to allow for replacement of most OEM expansion valves originally installed



Item ID	068U4900 <sup>1</sup>	
Cuber	Flaker/Nugget	
	Nameplate lbs. of ice/24 hrs per valve	Estimated orifice size
75 to 150	75 to 200	1
151 to 350	201 to 500	3
351 to 600	501 to 950	5

Valve in kit above has straightway 1/4" x 3/8" ODF connections.

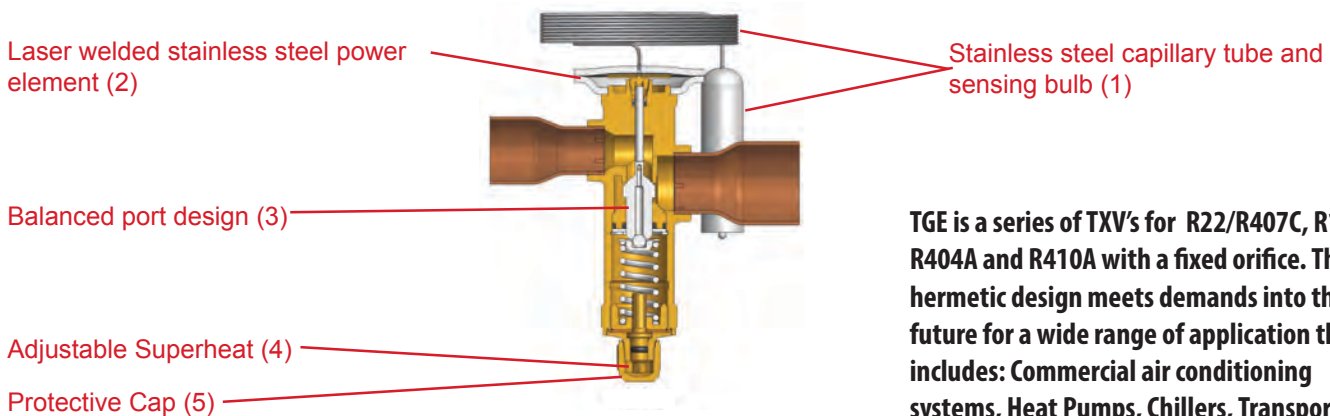
Item ID	068U4901 <sup>1</sup>	
Cuber	Flaker/Nugget	
	Nameplate lbs. of ice/24 hrs per valve	Estimated orifice size
351 to 600	501 to 950	5
601 to 1200	951 to 1650	7
1201 to 1800	1651 to 2300	8

Valve in kit above has straightway 3/8" x 1/2" ODF connections.

<sup>1</sup>Ice machine kits contain valve, (3) orifices in corresponding tables, (2) elbow fittings



## Danfoss TGE Series Fixed Orifice, Adjustable Superheat Expansion Valves



TGE is a series of TXV's for R22/R407C, R134A, R404A and R410A with a fixed orifice. The hermetic design meets demands into the future for a wide range of application that includes: Commercial air conditioning systems, Heat Pumps, Chillers, Transport refrigeration.

**Features**

- Stainless steel capillary tube and bulb
- Laser welded stainless steel power element
- 2-way balance port
- Adjustable superheat
- MAH (Maximum Operating Pressure Anti-Hunt) charge standard for R22/R407C and R410A
- N charge standard for R404A
- Straight-way flow
- Maximum working pressure 667psi

Item ID	Type	Competitor Mode Nos.	Nomimal Capacity (Tons) <sup>3</sup>	Solder ODF Connection (in.)	
<b>Danfoss</b>					
<b>R-22 / R-407C, MAH charge<sup>1</sup></b>					
067N9403	TGEX 10	SVE-5, EVRE-5	HFES-5H	6	½ x ⅝
067N9404	TGEX 10	SVE-5, EVRE-5	HFES-5H	6	½ x ⅞
067N9406	TGEX 10	SVE-6, EVRE-6		7½	⅝ x ⅞
067N9483	TGEX 10	SVE-6, EVRE-6		7½	⅝ x 1⅛
067N9407	TGEX 10	SVE-8, SVE-10, EBSVE 8, EVRE 8, EVRE 10	HFES-8H, HFES-10H, TRAE-10H	11	⅝ x ⅞
067N9409	TGEX 20	EBSVE 11, EVRE 12		12	⅝ x ⅞
067N9411	TGEX 20	EBSVE15, OVE 15	HFES-15H, TRAE-15H	15	⅝ x 1⅛
067N9412	TGEX 20	EBSVE15, OVE 15	HFES-15H, TRAE-15H	15	⅞ x 1⅛
067N9413	TGEX 20			18	⅞ x 1⅛
067N9415	TGEX 40	EBSVE 20, OVE 20	HFES-20H, TRAE 20H	26	⅞ x 1⅜
067N9418	TGEX 40	OVE 30	TRAE 30H	30	1⅛ x 1⅜
067N9419	TGEX 40	OVE 40	TRAE 40H	38	1⅛ x 1⅜
<b>R-410A, MAH charge<sup>1</sup></b>					
067N9206	TGEL 10	ERZE-8		9	⅝ x ⅞
067N9207	TGEL 10	ERZE-12.5	TFES-12Z	13	⅝ x ⅞
067N9209	TGEL 20	ERZE-15	TFES-16Z	15	⅝ x ⅞
067N9210	TGEL 20	ERZE-15	TFES-16Z	15	⅝ x 1⅛
067N9213	TGEL 20	OZE-20		23	⅞ x 1⅛
067N9284	TGEL 20	OZE-20		23	1⅛ x 1⅛
067N9285	TGEL 40	OZE-25		31	⅞ x 1⅛
067N9215	TGEL 40	OZE-25		31	⅞ x 1⅜
067N9218	TGEL 40	OZE-35		35	1⅛ x 1⅜
067N9219	TGEL 40			46	1⅛ x 1⅜
<b>R-134a, N charge<sup>2</sup></b>					
067N5158	TGEN 10	SJE-5, SJE-6, EBSJE-5	HFES-6M	7	⅝ x 1⅛
<b>R-404A / R-507, N charge<sup>2</sup></b>					
067N6151	TGES 10	SSE-3	HFES-3.5S	4	½ x ⅞
067N6166	TGES 10	SSE-4	HFES-5S	5	½ x ⅞
067N6150	TGES 10	SSE-4	HFES-5S	5	⅝ x ⅞
067N6154	TGES 10	SSE-6, SSE-7, EBSSE-6	HFES-7S	7½	⅝ x ⅞

<sup>1</sup>MAH charge: -22°F to 60°F, Max operating temp=300°F

<sup>2</sup>N charge: -40°F to 50°F, Max operating temp=210°F



## Danfoss TR6 Air Conditioning And Heat Pump Expansion Valve Kits

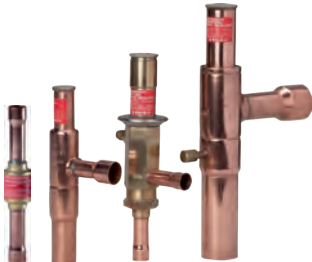
### Features

- Complete with valve, bulb strap and instructions
- Includes Aeroquip and Chatleff fittings normally found in most evaporators
- Anti-hunt bulb charge
- Retrofit unit with a capillary tube for energy efficiency upgrade
- Contractor friendly bulb strap
- Durable stainless steel power element and capillary tube
- Ideal to optimize performance of mismatched system
- Internal check valve permits use in heat pump systems



Item ID	Refrigerant	System Capacity (tons)	Solder ODF connection (in.)
<b>Danfoss</b>			
067L5955	R-410A	1½ - 3	¾ x ¾
067L5956		3½ - 4	¾ x ¾
067L5957		4½ - 5	¾ x ¾
067L5856	R-22	1½ - 2	¾ x ¾
067L5857		2½ - 3	¾ x ¾
067L5858		3½ - 4	¾ x ¾
067L5859		5 - 6	¾ x ¾

## Danfoss Pressure Regulators- EPR, CPR, Head Pressure, Hot Gas Bypass



### Features

- All valves may be used with all CFC, HCFC or HFC, except R410A
- Hermetic brazed construction - 100% leak tested
- Stainless steel elbows
- Built-in valve seat dampening design
- 1/4" Schrader valve for pressure testing
- Pressure regulation side:  
KVP/KVR- opens on a rising pressure  
KVC/KVL- opens on a falling pressure

Item ID	Type	Rated Capacity (Tons)				Solder ODF Connection (In.)	Setting Range psig	Factory Setting psig	Max Working Pressure PSIG
		R-22	R-134a	R-404A	R-407C				
<b>Danfoss Pressure Regulator</b>									
034N0082	CPCE12	6.2	4.3	6.3	6.7	1/2	0 to 85	5.8	400
034N0083	CPCE15	9.2	6.3	9.1	9.9	5/8	0 to 85	5.8	400
034N0084	CPCE22	12.2	8.4	12.1	12.2	7/8	0 to 85	5.8	400
034L0143	KVC12	2.14	1.36	2.02	2.31	1/2	3 to 85	29	400
034L0147	KVC15	4.17	2.65	3.93	4.5	5/8	3 to 85	29	400
034L0043	KVL12	1.3	0.8	1	1.1	1/2	3 to 85	29	261
034L0049	KVL15	1.3	0.8	1	1.1	5/8	3 to 85	29	261
034L0045	KVL22	1.3	0.8	1	1.1	7/8	3 to 85	29	261
034L0023	KVP12	1.3	0.9	1.2	1.2	1/2	0 to 80	29	261
034L0093	KVR12	Liquid: 12.7 Hot gas: 4.13	Liquid: 11.8 Hot gas: 3.03	Liquid: 8.2 Hot gas: 3.27	Liquid: 13.8 Hot gas: 4.5	1/2	70 to 250	145	400
034L0097	KVR15	Liquid: 12.7 Hot gas: 4.13	Liquid: 11.8 Hot gas: 3.03	Liquid: 8.2 Hot gas: 3.27	Liquid: 13.8 Hot gas: 4.5	5/8	70 to 250	145	400
020-1132	NRD12s*					1/2	70 to 250	145	400

Note: \*: NRD generally used in conjunction with a KVR to regulate the condensing pressure.



## EVR Solenoid Valves and Coils



### Features

- Danfoss EVR type solenoid valves are general purpose valves designed for use in refrigeration, freezer, and air conditioning systems.
- Valve body and coil ordered separately.

Item ID		Type	Rated capacity R-22 / R-407C (liquid) (tons)	Rated capacity R-134a (liquid) (tons)	Rated capacity R-404A / R-507 (liquid) (tons)	Solder ODF Connection (in.)	Port size (in.)
with manual stem	without manual stem						
<b>Danfoss</b>							
	<b>032F7105</b>	EVR 3	2.03	1.55	1.4	¼	⅛
	<b>032F1157</b>	EVR 3	2.03	1.55	1.4	⅜	⅛
<b>032F7116</b>	<b>032F7115</b>	EVR 6	5.83	4.43	4.01	⅜	15/64
<b>032F7144</b>	<b>032F1162</b>	EVR 6	5.83	4.43	4.01	½	15/64
<b>032F7148</b>	<b>032F7121</b>	EVR 8	8.01	6.09	5.52	½	5/16
<b>032F7149</b>	<b>032F1168</b>	EVR 10	13.8	10.5	9.53	5/8	3/8
	<b>032F1171</b>	EVR 15	18.9	14.4	13	5/8	9/16
<b>032F1004</b>		EVR 18	24.6	18.7	17	7/8	19/32
<b>032F1177</b>	<b>032F1176</b>	EVR 20	36.4	27.7	25.1	7/8	7/8
<b>032F7137</b>	<b>032F7145</b>	EVR 22	43.7	33.3	30.1	1 1/8	15/16
<b>032F1194</b>	<b>032F1193</b>	EVR 25	72.8	55.4	50.2	1 3/8	1
<b>042H1179</b>	<b>042H1178</b>	EVR 32	116.5	88.7	80.3	1 5/8	7/8

Item ID	Type (Junction Box) <sup>2</sup>	Length of wire (in.)	Type (Conduit Boss) <sup>3</sup>
<b>Danfoss</b>			
<b>018F4100</b>	BJ024CS	7	BX024CS
<b>018F4110</b>	BJ120CS	7	BX120CS
<b>018F4120</b>	BJ230CS	7	BX230CS

Item ID	Length of wire (in.)	Voltage (V)	Frequency (Hz)	Power consumption (W)
<b>Danfoss</b>				
<b>018F4102</b>	18	24	50/60	14
<b>018F4112</b>	18	110	50/60	16
		120	60	15
<b>018F4122</b>	18	208-240	60	14
		230	50	17

Item ID	Coil and Opener
<b>018F0091</b>	Magnetic Solenoid Opener

## EVU, Specialty Solenoid Valves and Coils



### Features

- Danfoss EVU solenoid valves are designed to fit into compact refrigeration systems. Their lightweight, compact design includes bimetal connections to permit fast, easy soldering without the need for wet wrapping.
- Valve body and coil ordered separately.
- Used in Manitowac and other Ice Machines

Item ID	Body	Connection (In.)	C <sub>v</sub> Value (gal/min)
<b>Danfoss</b>			
<b>032F5024</b>	EVU 3	1/4	0.35
<b>032F5026</b>	EVU 3	3/8	0.35
<b>032F5049</b>	EVU 6	1/2	0.93

Item ID	Coil (VAC)
<b>042N4233</b>	115
<b>042N4230</b>	220
<b>042N8236</b>	24

## Danfoss Ball Valves



**Maximum flow in open position, Maximum tightness in closed position**  
 GBC valves are used in liquid, suction and hot gas lines in all refrigeration and air-conditioning systems with fluorinated refrigerants. Danfoss GBC ball valves are manually operated shut-off valves suitable for bi-directional flow. The valve concept includes a high precision laser welding ensuring both a strong and a light slim line valve body design. The design, weld, and choice of the sealing material enables the ball valves to meet the most demanding requirements, for example, the high working pressure when operating with R410A.

### Features

- UL and CUL recognized
- Seal cap with retaining strap
- Has a pressure rating of 650 psi and is approved for R410A
- Precision laser welded
- Rotation stops and position indicator
- Full flow with minimum pressure drop
- Panel mounting holes
- Bi-directional flow – valve orientation is unimportant
- Slimline design ensures easy operational handling
- Burst proof spindle design prevents liquid from being trapped internally
- Teflon valve seat to secure maximum tightness and a long lifetime
- Access port with schrader valve reduces cost if service of the system is necessary

Item ID	Alternate Code	Solder ODF connection (in)	C <sub>v</sub> value (gal/min)	Weight (lbs)	Max. working pressure (psig)	Max. test pressure (psig)
<b>Danfoss</b>						
009G8050	GBC6S	1/4	2.27	0.52	650	940
009G8051	GBC10S	3/8	6.57	0.52	650	940
009G8052	GBC12S	1/2	12.23	0.54	650	940
009G8053	GBC16S	5/8	16.31	0.54	650	940
009G8054	GBC18S	3/4	23.61	0.86	650	940
009G8065	GBC22S	7/8	32.56	0.94	650	940
009G8066	GBC28S	1 1/8	60.05	1.96	650	940
009G8067	GBC35S	1 3/8	93.51	3.09	650	940
009G8068	GBC42S	1 5/8	139.96	4.91	650	940
009G8059	GBC54S	2 1/8	260.05	9.32	650	940
009G8069	GBC67S	2 5/8	358.36	12.46	650	725

## Packard Sight Glass / Moisture Indicators



### Features

- Easily visible
- Accurate moisture indicator
- Brass body
- 754 psi max working pressure
- UL recognized
- OEM approved

Item ID	Conn. Size	Connection Type	Overall Length (In.)
<b>Packard</b>			
PSG025FFMF	1/4" SAE	Female x Male Flare	2.44
PSG375FFMF	3/8" SAE	Female x Male Flare	2.52
PSG050FFMF	1/2" SAE	Female x Male Flare	2.64
PSG025ODF	1/4" ODF	Solder	3.98
PSG375ODF	3/8" ODF	Solder	4.69
PSG050ODF	1/2" ODF	Solder	5.75
PSG625ODF	5/8" ODF	Solder	5.75
PSG875ODF	7/8" ODF	Solder	6.81



**Sand Screens**  
See page 274

## Danfoss Sight Glass / Moisture Indicators

### Features

- Indicates dangerous moisture levels to prevent formation of harmful acids
- Accurate moisture indication for system monitoring
- High visibility view port
- Brass body design minimizes corrosion
- Inline and vessel mount versions available
- UL recognized
- 754 psi max working pressure



Item ID	Description	Conn. Size ODF	Connection Type	Overall Length
<b>Danfoss</b>				
014L0171	SGP 6 N	1/4" SAE	M Flare x F Flare	1.81
014L0172	SGP 10 N	3/8" SAE	M Flare x F Flare	2.24
014L0181	SGP 6s N	1/4"	Solder	3.98
014L0182	SGP 10s N	3/8"	Solder	4.69
014L0183	SGP 12s N	1/2"	Solder	5.75
014L0145	SGP 16s N	5/8"	Solder	5.75
014L0186	SGP 22s N	7/8"	Solder	6.81



## Danfoss Liquid Line Filter Driers

Black, high-quality and durable coating offers a cleaner appearance after brazing.

Easy to remove pull-off cap for sweat or twist-off cap for flare.



One-piece plasma welded shell minimizes risk of refrigerant loss.

Eliminator® core for the highest possible drying capacity.

High dirt retention - down to 25 µm particles - with minimal pressure drop.

### Features

- Solid core design
- Mixture of molecular sieve and activated alumina ensures excellent absorption of moisture and acid
- Greater protection against contaminants
- Industry leading moisture capacity
- Solid copper connections for easy installation

Item ID	Description	Conn. Size Inches	Cubic Inches	Conn. Type	Length	Liquid Capacity (tons)		
						R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
<b>Danfoss</b>								
DCL032	023Z5075	1/4	3	Flare	4.33	2.0	2.0	1.4
DCL032S	023Z5013	1/4	3	Sweat	3.86	2.0	2.0	1.4
DCL052	023Z5002	1/4	5	Flare	4.69	2.0	2.3	1.4
DCL052S	023Z5018	1/4	5	Sweat	4.21	2.0	2.3	1.4
DCL053	023Z5003	3/8	5	Flare	5.2	3.66	4.1	2.79
DCL053S	023Z5019	3/8	5	Sweat	4.45	5.1	5.4	4.0
DCL082	023Z5004	1/4	8	Flare	5.71	2.18	2.37	1.55
DCL083	023Z5005	3/8	8	Flare	6.22	4.03	4.56	3.12
DCL083S	023Z5023	3/8	8	Sweat	5.47	5.4	6.0	4.0
DCL084	023Z5006	1/2	8	Flare	6.54	8.14	9.03	6.07
DCL084S	023Z5026	1/2	8	Sweat	5.63	8.14	9.03	6.07
DCL162	023Z5007	1/4	16	Flare	6.06	2.18	2.36	1.54
DCL163	023Z5008	3/8	16	Flare	6.57	6.3	6.9	4.6
DCL163S	023Z5029	3/8	16	Sweat	5.83	6.3	6.9	4.6
DCL164	023Z5009	1/2	16	Flare	6.89	9.15	10.07	6.69
DCL164S	023Z5032	1/2	16	Sweat	5.98	8.6	9.4	6.3
DCL165	023Z5010	5/8	16	Flare	7.24	12.69	14.74 / 15.59	10.41
DCL165S	023Z5033	5/8	16	Sweat	6.22	12.3	13.4	8.6
DCL303	023Z0012	3/8	30	Flare	9.57	4.46	4.72 / 4.40	3
DCL303S	023Z0030	3/8	30	Sweat	8.82	6.0	6.6	4.3
DCL304	023Z0013	1/2	30	Flare	9.88	9.24	10.41 / 10.58	7.11
DCL304S	023Z0031	1/2	30	Sweat	8.98	8.8	9.7	6.3
DCL305	023Z0014	5/8	30	Flare	10.24	13	15.72	10.51
DCL305S	023Z0032	5/8	30	Sweat	9.21	12.6	14.0	9.4
DCL307S	023Z0034	7/8	30	Sweat	9.76	18.27	21.44 / 23.05	15.34
DCL415	023Z0103	5/8	41	Flare	10.28	15.78	17.66	11.9
DCL415S	023Z0105	5/8	41	Sweat	9.25	15.78	17.66	11.9
DCL417S	023Z0106	7/8	41	Sweat	9.8	18.89	22.32 / 24.08	16.01
DCL607S	023Z0036	7/8	60	Sweat	14.71	19.93	25.16 / 30.71	19.94

## Danfoss Filter Drier Cores



Item ID	Description	Material
<b>Danfoss</b>		
023U1392	DCR core insert, type 48-DM solid core	100% molecular sieve
023U4381	DCR core insert, type 48-DC solid core	80% molecular sieve & 20% activated alumina
023U5381	DCR core insert, type 48-DA solid core	30% molecular sieve & 70% activated alumina

## Danfoss Suction Line Driers



### Features

- Solid core design with mixture of activated alumina and molecular sieve maximizes acid and moisture absorption
- Contains two schrader valves for measuring pressure drop across the drier
- Burn out drier to be installed ahead of compressor

Item ID	Description	Conn. Size (In. ODF)	Cubic Inches	Conn. Type	Length	R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
<b>Danfoss</b>								
DAS164SVV	023Z1009	1/2	16	Sweat	6	1.7	6.3	2.4
DAS165SVV	023Z1010	5/8	16	Sweat	6.2	2.7	4.3	3.7
DAS166SVV	023Z1011	3/4	16	Sweat	6.7	3.4	5.7	4.9
DAS167SVV	023Z1012	7/8	16	Sweat	6.8	3.9	6.3	5.4
DAS306SVV	023Z1014	3/4	30	Sweat	9.7	4	6.3	5.4
DAS307SVV	023Z1015	7/8	30	Sweat	9.8	4.6	7.4	6.3
DAS309SVV	023Z1016	1 1/8	30	Sweat	9.8	5.7	8.9	7.7
DAS419SVV	023Z1018	1 1/8	41	Sweat	9.8	6.3	10	8.6

## Danfoss Heat Pump Biflow Filter Driers

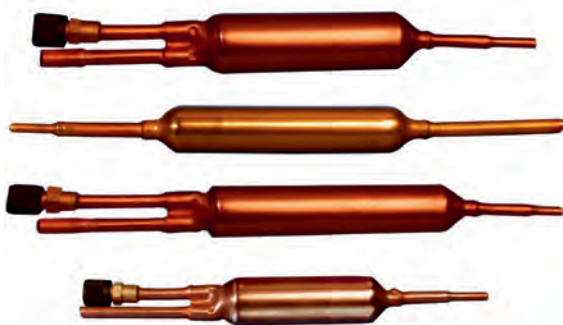


### Features

- Solid core design
- Check valves are insensitive to dirt and give minimum restriction regardless of flow direction
- Industry leading moisture capacity
- No dirt released in reverse flow
- High dirt retention – down to 25 µm particles with minimal pressure drop

Item ID	Description	Conn. Size (In. ODF)	Cubic Inches	Length	R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
<b>Danfoss</b>							
DCB083S	023Z1433	3/8	8	5.6	2.1	2.3	1.5
DCB084S	023Z1432	1/2	8	5.7	2.4	2.6	1.7
DCB163S	023Z1437	3/8	16	5.9	5.1	5.7	3.7
DCB164S	023Z1436	1/2	16	6.1	8.0	9.1	5.7
DCB165S	023Z1435	5/8	16	6.3	10.6	11.4	8.3

## Spun Copper Driers



### Features

- All Copper Shells
- 100% Molecular Sieve with XH9 and XH11 desiccants
- Fully Compatible with ALL new refrigerants

\* PD4178: New breakthrough drier with UV Dye already installed in the drier to make it easy to locate leaks in sealed systems.

Item ID	Description	Stamford
<b>Packard</b>		
PD103	1" Directional Drier	4050
PD109	3/4" Non Directional Drier	4051
PD109B	50 Pack of PD109	4051
PD109P	3 Pack of PD109	4051
PD110	3/4" Directional Drier	4040
PD110B	50 Pack of PD110	4040
PD111	1" Valve Drier	4039
PD111B	50 Pack of PD111	4039
PD111P	3 Pack of PD111	4039
PD112	1" 30 Gram Drier	4049
PD113	1" Double Inlet Drier	4042
PD113B	50 Pack of PD113	4042
PD114	1" Directional Drier	4041
PD115	3/4" Valve Drier	4044
PD115B	50 Pack of PD115	4044
PD115P	3 Pack of PD115	4044
PD4178 *	3/4" Universal UV Dye	4178





## Danfoss KPU Pressure Controls



### Features

- Designed with contractor input
- Fingertip reset
- High visibility contrast scale
- Fail-safe bellows available
- Durable, rust proof plastic cover
- Universal mounting bracket
- Snap action switch
- Easy to maintain and access contacts with 24 FLA rating
- Large connector area
- Easy, direct replacements for most competitor controls
- Finger-tip test for contact operation



Item ID		Pressure	Type	Reset	Contact system	Range (psig)	Differential (psig)	Max. Working Pressure (psig)	Replaces
1/4" M flare	36" capillary tube with 1/4" flare nut								
<b>Danfoss Pressure Controls</b>									
<b>060-5231</b>	<b>060-5233</b>	Low	KPU 1	Automatic	SPDT	6"-108	10 to 60	250	010-1483
<b>060-5237</b>	<b>060-5235</b>	Low	KPU 2	Automatic	SPST (open low)	6"-73	6 to 30	250	010-1402
<b>060-5239</b>	<b>060-5240</b>	Low	KPU 2	Automatic	SPDT	6"-73	6 to 30	250	
<b>060-5232</b>	<b>060-5234</b>	Low	KPU 1B	Manual	SPDT	28"-100	10	250	P70AB12 P70AB2
<b>060-5241</b>	<b>060-5242</b>	Fan cycling	KPU 5	Automatic	SPST (open low)	100-465	25 to 85	510	010-2054 P70AA118
<b>060-5243</b>	<b>060-5245</b>	High	KPU 6W <sup>2</sup>	Automatic	SPDT	100-600	58 to 145	675	016-108
<b>060-5244</b>	<b>060-5246</b>	High	KPU 6B <sup>2</sup>	Manual	SPDT	100-600	60	675	

Item ID		Low pressure side		Type	High pressure side		Reset		Contact system	Max. Working Pressure (low / high side) (psig)	Replaces
1/4" M flare	36" capillary tubes w/ 1/4" flare nuts	Range (psig)	Differential (psig)		Range (psig)	Differential (psig)	Low pressure side	High pressure side			
<b>Danfoss Pressure Controls</b>											
<b>060-5247</b>	<b>060-5248</b>	6" to 108	10 to 60	KPU 15	100-465	60	Automatic	Automatic	SPST dual pressure (LP/HP)	250 / 510	012-1549
<b>060-5249</b>	<b>060-5250</b>	6" to 108	10 to 60	KPU 15B	100-465	60	Automatic	Manual	SPST dual pressure (LP/HP)	250 / 510	P170LB1 <sup>3</sup> P70LB1 P70MA1
<b>060-5253</b>	<b>060-5254</b>	6" to 108	10 to 60	KPU 16B <sup>2</sup>	100-600	60	Convertible <sup>3</sup>	Convertible <sup>3</sup>	SPDT LP/HP signal	250 / 675	012-4834

<sup>1</sup>Competitor Part No. equipped with capillary tube for all but P170LB which has flare connection.

<sup>2</sup>KPU 6 and high pressure side of KPU 16 are designed with fail-safe double bellows.

## Cartridge Pressure Controls



### Features

- 18 inch leads
- Hermetically sealed
- Tamper proof construction
- Direct mounting on tubing
- For use in residential A/C and commercial refrigeration
- 100% tested
- Contacts rated at 6 amps, 24-240 volts
- UL recognized

## Low Pressure Controls

Item ID	Open psi	Close psi	Tolerance	Replaces
<b>Packard</b>				
PLP0520	5	20	± 5 PSI	SLP0520
PLP1025	10	25	± 5 PSI	SLP1025
PLP1535	15	35	± 5 PSI	SLP1535
PLP2550	25	50	± 5 PSI	SLP2550
PLP2565	25	65	± 5 PSI	SLP2565
PLP2580	25	80	± 5 PSI	SLP2580
PLP4080	40	80	± 5 PSI	SLP4080
PLP5090	50	90	± 5 PSI	SLP5090

Item ID	Open psi	Tolerance	Replaces
<b>Packard Manual High Pressure Control</b>			
PMR410	410	± 15 PSI	SMR410

## High Pressure Controls

Item ID	Open psi	Close psi	Tolerance	Replaces
<b>Packard</b>				
PHP200150	200	150	± 15 PSI	SHP200150
PHP250150	250	150	± 15 PSI	SHP250150
PHP275195	275	195	± 15 PSI	SHP275195
PHP300200	300	200	± 15 PSI	SHP300200
PHP350250	350	250	± 15 PSI	SHP350250
PHP375265	375	265	± 15 PSI	SHP375265
PHP400200	400	200	± 15 PSI	SHP400200
PHP400280	400	280	± 15 PSI	SHP400280
PHP400300	400	300	± 15 PSI	SHP400300
PHP425300	425	300	± 15 PSI	SHP425300
PHP450250	450	250	± 15 PSI	SHP450250
PHP600475	600	475	± 15 PSI	33361

## Differential Pressure Control / Lube Oil Protection Control, Type MP



### Application

Used to protect refrigeration compressors against low oil pressure. Compatible with HCFC and non-flammable HFC refrigerants.



### Features

- Reliable, long life stainless steel bellows
- Sturdy metal cover and universal mounting hole patterns
- Integral 1/2" NPSM swivel connection allows direct attachment of 1/2" male pipe thread connector
- Simple manual trip, electrical test function eliminates need of tools and test "jumper" wires
- Suitable for both alternating and direct current (AC and DC)
- Versions available with adjustable or fixed differential

1/4" M flare		3/6" capillary tubes with 1/4" flare nuts		Danfoss Type	Control differential Δp (psig)	Regulation range LP side	Time relay delay time (seconds)
Item ID	Replaces	Item ID	Replaces				
<b>Danfoss</b>							
<b>060B200866</b>	P145NCA/B-82C	<b>060B205066</b>	P45NCA-82C 3321-009	MP 54	6	29 inHg to 175 psi	45
<b>060B200266</b>	3321-001			MP 54	9	29 inHg to 175 psi	90
<b>060B200366</b>	P145NCA/B-12C P31-5827 3321-001	<b>060B205366</b>	P45NCA-12C P30-5826 3321-010	MP 54	9	29 inHg to 175 psi	120
		<b>060B205466</b>	P288AA-18/2C P30-3601 3321-014/5 <sup>3</sup>	MP 55	4.3 to 65	29 inHg to 175 psi	45
<b>060B201266</b>	P128AA-2C			MP 55	4.3 to 65	29 inHg to 175 psi	60
<b>060B200766</b>	P128AA-17C	<b>060B205766</b>	P28AA-17C P28NA-5C P30-3801 3321-014/5 <sup>3</sup>	MP 55	4.3 to 65	29 inHg to 175 psi	120

## TECHNICAL SUPPORT WHEN YOU NEED IT



Our in-house team of experts are available to help with cross referencing services & complete post-sale product support .

Pictured from L-R:

Bill Campbell, Chris Baxter & Dion Rohrer - Technical Support  
Joseph Laminack - Product Engineer

## Thermostat Type KPU



**NEW**

### Features

- Eliminates temperature fluctuations.
- Reliable and robust SPST and SPDT contact system, copper capillary tubing and bulb are stout to resist breakages.

REPLACES PENN/JOHNSON CONTROLS AND MANY OTHER THERMOSTATS.

Item ID	Type	Regulation Range (°F)	Differential ΔT (°F)	Bulb Size (In.)	Capillary Tube Length (In.)	Max. Bulb Temp. (°F)	Ambient Temp. (°F)	Contact Type	Reset Type	Replaces
<b>Danfoss</b>										
060L2150	KPU 19	-30 - 80	3.6 - 12.6	3/8 x 4 1/2	120	140	-31 - 158	SPDT	Auto.	Penn A19ABC-24C
060L2151	KPU 19	-30 - 80	3.6 - 12.6	3/8 x 4 1/2	80	140	-31 - 158	SPDT (close on temp. rise)	Auto.	Penn A19ABA-40C
060L2152	KPU 19	-30 - 80	3.6 - 12.6	—	Air Coil / Room Sensor	140	-31 - 140	SPDT	Auto.	Penn A19BBC-2C

## Danfoss KPU Temperature Controls



### Features

- Designed with contractor input
- Fingertip reset
- High visibility contrast scale
- Fail-safe bellows available
- Durable, rust proof plastic cover
- Universal mounting bracket
- Snap action switch
- Easy to maintain and access contacts with 24 FLA rating
- Large connector area
- Easy, direct replacements for most competitor controls
- Finger-tip test for contact operation

ADOPTED BY ORIGINAL EQUIPMENT MANUFACTURERS

Item ID	Charge	Type	Bulb type	Capillary tube length (in.)	Reset	Range (°F)	Differential		Max. bulb temp. (°F)	Replaces
							at lowest temp. setting	at highest temp. setting		
<b>Danfoss Temperature Controls</b>										
060L5201	Vapor <sup>1</sup>	KPU 61	Straight Capillary Tube	80	Automatic	-20 to 60	8 to 40	2.5 to 13	250	
060L5206	Vapor <sup>1</sup>	KPU 62	Room sensor	Room sensor	Automatic	-20 to 60	8 to 40	2.5 to 13	250	A19BBC2 010-1072 060-1418
060L5215	Vapor <sup>1</sup>	KPU 68	Room sensor	Room sensor	Automatic	25 to 95	8 to 45	3 to 30	250	
060L5208	Adsorption <sup>2</sup>	KPU 73	Remote bulb	80	Automatic	-15 to 60	6 to 18	5 to 50	175	A19ABA40 A19ABC24 010-1408 010-1409
060L5218	Adsorption <sup>2</sup>	KPU 71	Remote bulb	80	Automatic	25 to 70	5.5 to 18	4 to 16	175	
060L5223	Adsorption <sup>2</sup>	KPU 77	Remote bulb	80	Automatic	60 to 140	6 to 18	6.3 to 18	265	

<sup>1</sup>Competitor Part No. equipped with capillary tube for all but P170LB which has flare connection.

<sup>2</sup>KPU 6 and high pressure side of KPU 16 are designed with fail-safe double bellows.



## Installation Kits for Bristol Compressors



COMPKIT1  
COMPKIT2  
COMPKIT3



COMPKIT4  
COMPKIT5  
COMPKIT6  
COMPKIT7  
COMPKIT8  
COMPKIT9



COMPKIT10



VIEW COMPLETE BOM

### Features

- Everything you need to install Bristol compressors in one handy box
- Reduce and organize your inventory at one time
- High quality components for superior performance and reduced call backs
- Each Kit Contains three fan capacitors, one compressor (hermetic) capacitor, contactor, filter drier, acid test, wiring harness and assorted copper fittings

Item ID	COMPKIT1
Tons	1 1/2
For Use With Bristol Compressor Model #	H2EB18SABCA H2EB18SABCB H2EB223ABCA

Item ID	COMPKIT2
Tons	2
For Use With Bristol Compressor Model #	H22J22BABCA H2EB24SABCA H2EB24SABCB

Item ID	COMPKIT3
Tons	1 1/4 to 1 1/2
For Use With Bristol Compressor Model #	H22J15BABCA H22J18BABCA

Item ID	COMPKIT4
Tons	2 to 2 1/2
For Use With Bristol Compressor Model #	H22J25BABCA H22J29BABCA

Item ID	COMPKIT5
Tons	3 to 4
For Use With Bristol Compressor Model #	H22A503ABCA H22J33BABCA

Item ID	COMPKIT6	
Tons	2 1/2 to 4 1/2	
For Use With Bristol Compressor Model #	H2EB283ABCB H2EB28SABCA H22J36BABCA	H22J38BABCA H22A543ABCA H2EB32SABCA

Item ID	COMPKIT7
Tons	3 1/2
For Use With Bristol Compressor Model #	H22J41BABCA

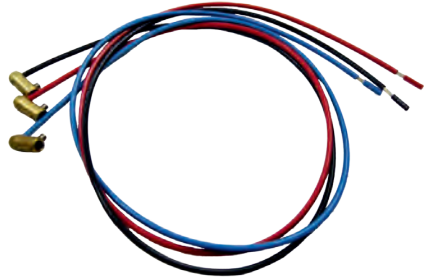
Item ID	COMPKIT8
Tons	4
For Use With Bristol Compressor Model #	H22J44BABCA

Item ID	COMPKIT9
Tons	5
For Use With Bristol Compressor Model #	H22A583ABCA H22A623ABCA

Item ID	COMPKIT10	
Tons	3 PHASE KIT	
For Use With Bristol Compressor Model #	H22J293DBVA H22J293DBLA H22J333DBVA H22J333DBLA H22J363DBVA H22J363DBLA H22J383DBLA H22J383DBVA H22J413DBLA H22J413DBEA H22J443DBDA	H22J443DBEA H22J443DBFA H22A543DBFA H22A543DBLA H22A543DBEA H22A563DBLA H22A623DBEA H22A623DBLA H22A623DBFA H22A723DBLA H22A723DBVA



## Three Wire Compressor Terminal Repair Kits



### Features

The Term-Lok Kit was designed for the repair of burned or damaged spade terminals or for non burned terminals to prevent future burn off.

They are made of high quality, heat sensed brass and are guaranteed for the life of the compressor.

### Includes:

- Brass cylindrical tube with a diameter large enough to slip over the pins
- Stainless set screw to lock onto the terminal
- Wrench for easy installation
- Anti-arcing spacer to prevent arcing between posts.
- Will never crack, break or burn off
- Provides four full points of contact on the new terminal

Item ID	Gauge	Services
<b>Term-LOK</b>		
TLC38	8	5 ton units and above
TLC310	10	3 - 5 ton units
TLC312	12	1 - 3 ton units

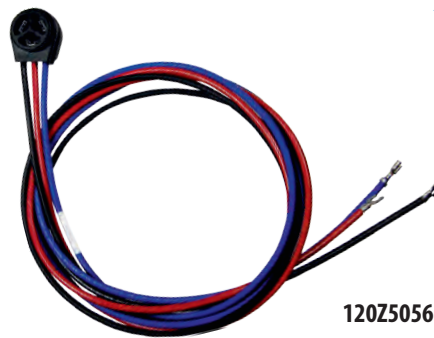
## Bristol and Danfoss Wiring Harnesses

### Features

- Most compressor failures may be attributed to mis-wiring the compressor. These wiring harnesses with molded plug help to eliminate costly mis-wires and eliminates the guess work out of wiring in the compressor. The Wiring Harness provides a low cost solution by getting the serviceman to the next job faster.
- For Bristol or Danfoss compressors.



651078



120Z5056

OEM EXACT  
REPLACEMENT  
PARTS

Item ID	Brand	Gauge	Compressor	Length (In.)
651078	Bristol	12	Hermetic	36
120Z5056	Danfoss	10	Wire harness, 5', for 200-230V, Scroll	60
120Z5057	Danfoss	10	Wire harness, 5', for 380-575V Scroll	60

## Universal Self Regulating Crankcase Heater



### Applications

Used on refrigeration compressors up to 5 HP and 40" circumference in non-hazardous locations.

### Features

- UNIVERSAL - Self Regulating
- Pre-stripped leads
- Flexible Lockstrap
- 60 watts at 0°F
- No thermostat required
- UL Recognized

Item ID	Length (in.)	Lead Length (in.)	Volts	Replaces
<b>Packard</b>				
CHU40120	40	28	120	CCH-1C 4DLE4
CHU40208-277	40	28	208-277	CCH-2C 4DLE5

## Tutco Crankcase Heaters



### Features

- High temperature silicone rubber element and VW-1 insulated lead wires rated for 150°C
- Wattage for each model matches compressor requirements
- Nominal power consumption due to highly efficient heat transmission and low wattage
- Voltage ratings through 600 VAC
- Corrosion resistant exterior
- Completely moisture-proof
- Quick and easy installation
- UL recognized
- Custom leads and terminations available

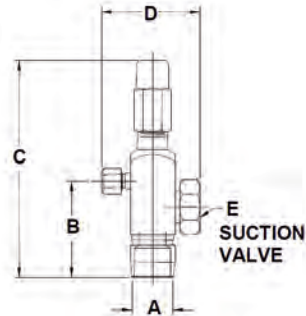
Item ID	Volts	Watts	Girth Dimensions		Shape
			Min	Max	
<b>Tutco</b>					
CH197240	120	25	13 13/16	21	Round
CH19740	240	25	13 13/16	21	Round
CH1982	120	35	16 13/16	24	Oval
CH135240	120	40	23 7/16	27 1/2	Oval
CH13540	240	40	23 7/16	27 1/2	Oval
CH196	240	40	19 15/16	27 1/8	Round
CH2057	460	40	21 3/16	24 3/8	Round
CH1963	480	40	19 15/16	27 1/8	Round
CH103240	120	45	24 13/16	32	Oval
CH10340	240	45	24 13/16	32	Oval
CH184	240	45	13 13/16	21	Round
CH10540	240	50	31 13/16	39	Round
CH101240	120	54	27 7/16	39 5/8	Oval
CH10140	240	54	27 7/16	39 5/8	Oval
CH101340	480	54	27 7/16	39 5/8	Oval
CH10240	240	60	25 13/16	33	Oval

Item ID	Volts	Watts	Girth Dimensions		Shape
			Min	Max	
<b>Tutco</b>					
CH2022	120	70	33 9/16	37 3/8	Round
CH2802	120	70	28	20 13/16	Round
CH202	240	70	33 9/16	37 3/8	Round
CH230	240	70	21 13/16	29	Round
CH280	240	70	28	20 13/16	Round
CH2023	480	70	33 9/16	37 3/8	Round
CH2303	480	70	21 13/16	29	Round
CH2803	480	70	28	20 13/16	Round
CH2552	120	100	35 1/16	28 5/16	Round
CH255	240	100	35 1/16	28 5/16	Round
CH2707	460	100	36	43 3/8	Round
CH2727	460	100	38	30 13/16	Round
CH2553	480	100	35 1/16	28 5/16	Round
CH2822	120	150	38 1/8	45 1/2	Round
CH2557	460	90	27 3/4	35 1/8	Round

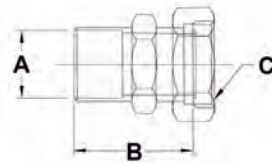
## Rotolock Adapters



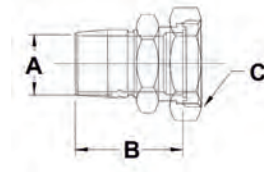
344030  
344033  
344034



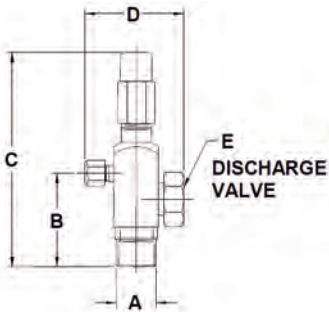
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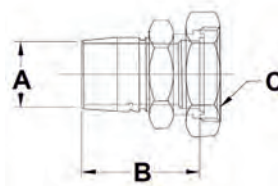
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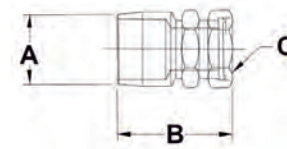
344029  
344035



344031



344039



### Applications:

- Adaptor valve used to change from Rotolock adapters to brazed connection

Item ID	Description	Includes	A	B	C	D	E	Replace Bristol
<b>Bristol</b>								
344030	Suction Valve	Teflon seal	1 1/8	3	7 3/16	2 1/2	1 3/4-12 UNF	250508
344033	Suction Valve	Teflon seal	1 3/8	3 5/16	7 3/16	2 1/2	1 3/4-12 UNF	250525
344034	Suction Valve	Teflon seal	1 5/8	3 1/2	7 3/16	2 1/2	1 3/4-12 UNF	250526
344036	Suction Adapter Straight	Teflon seal	1 3/8	2 1/2	1 3/4-12 UNF	—	—	250529
344032	Suction Adapter Straight	Teflon seal	1 1/8	2 3/16	1 3/4-12 UNF	—	—	250510
344029	Discharge Valve	Teflon seal	7/8	2 11/32	5 11/32	2 1/64	1 1/4-12 UNF	250507
344035	Discharge Valve	Teflon seal	1 1/8	19/32	5 11/32	2 5/32	1 1/4-12 UNF	250527
344031	Discharge Adapter Straight	Teflon seal	7/8	1 23/32	1 1/4-12 UNF	—	—	250509
344039	Discharge Adapter Straight	Teflon seal	1 1/8	2	1 1/4-12 UNF	—	—	250534

### Notes:

Compressors with sweat fittings or brazed fittings cannot be adapted to Rotolocks.

## Two Wire Electro-Mechanical Voltage Sensing Relay



**Features**

- Potential relay and start capacitor for compressor hard start applications
- More reliable than PTC type hard starts
- Two wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resister to safely discharge the capacitor

Item ID	Capacitor Size (µF)	Tons	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
<b>TorQstart</b>						
TQS1	189-227	1.5 - 3	Recip and Scroll	239-268	502	T0-5 SK3W3
TQS2	270-324	3.5 - 5	Recip and Scroll	280-315	502	KS1 SK3W6S

## Hard Start Kits And All In One Hard Start Packs



Standard PTC Relay and Hard Start Capacitor



**Features**

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip



All Purpose 3-N-1 Kit



**Features**

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- All models adapt to 115 volt compressors with external overload protector

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces	Item ID	Compressor Sizes	Volts	Replaces
<b>TorQstart Hard Start</b>					<b>TorQstart 3-N-1 Kit</b>			
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5	TQS21	1/2 HP	115	600-210 RC0210
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6	TQS41	1/4 and 1/3 HP	115	600-410 RC0410
TQS8	115-277	1/2 to 10	600%	32708 SPP7S	TQS81	1/12 thru 1/5 HP	115	600-810 RC0810

# INNOVATION MATTERS

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MAKING WHAT'S INSIDE YOUR EQUIPMENT MATTER  
STARTS BY THINKING OUTSIDE OF THE BOX.




ICM Controls has been manufacturing electronic control solutions for  
OEMs and the aftermarket for over 30 years.

With a brand synonymous with American-made quality and reliability,  
ICM Controls are designed with affordability and innovation in mind.








## Timers

ICM Control	Features and Applications	Specifications	Replaces
<b>Delay on Make Timers</b>			
	<p><b>ICM102, ICM102F</b></p> <ul style="list-style-type: none"> <li>• Universal voltage operation</li> <li>• Higher 1.5 amp power rating</li> <li>• Knob-adjustable time delays</li> <li>• Works with anticipator-type thermostats</li> <li>• One model replaces many in field</li> <li>• Ideal for compressor staging</li> <li>• Simple 2-wire hookup</li> <li>• "F" suffix denotes 6" wire leads</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-240 VAC</li> <li>• 1.5 amps</li> <li>• 15 amp inrush</li> <li>• 40 mA holding current</li> <li>• Frequency: 50-60 Hz</li> <li>• Adjustable delay: .03-10 minutes (1.8-600 seconds)</li> <li>• Voltage drop: 2.5 V @ 1.5 amps</li> <li>• Dimensions: 2" x 2"</li> </ul>	<p><b>ICM102</b></p> <ul style="list-style-type: none"> <li>• A-1: EAC-701-ADJ</li> <li>• Diversified: AC-800</li> <li>• Gemline: 1C310, 1C213</li> <li>• Mars: 32019, 32391, 32367</li> <li>• Supco: TD69</li> <li>• Wagner/DiversiTech: ADM-1</li> </ul> <p><b>ICM102F</b></p> <ul style="list-style-type: none"> <li>• Supco: TD69W</li> <li>• Wagner/DiversiTech: ADM-2</li> </ul>
	<p><b>ICM105</b></p> <ul style="list-style-type: none"> <li>• Low holding current</li> <li>• Low cost version of the ICM102 without the cooling anticipator circuitry</li> <li>• Ideal for compressor staging</li> <li>• Universal voltage operation</li> <li>• Knob-adjustable time delays</li> <li>• Simple 2-wire hookup</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-240 VAC</li> <li>• 1.5 amps</li> <li>• 15 amp inrush</li> <li>• 10 mA holding current</li> <li>• Frequency: 50-60 Hz</li> <li>• Adjustable delay: .03-10 minutes (1.8-600 seconds)</li> <li>• Voltage drop: 2.5 V @ 1 amp</li> <li>• Dimensions: 2" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• Diversified: AC-800, ASC-600/601</li> <li>• Gemline: 1C310/1C213</li> <li>• Mars: 32091</li> <li>• Supco: TD68</li> </ul>
<b>Delay on Break Timers</b>			
	<p><b>ICM201F</b></p> <ul style="list-style-type: none"> <li>• Higher 1.5 amp power rating</li> <li>• Compressor lockout/anti-short cycle timer</li> <li>• Helps to protect compressors from damage caused by rapid short cycling</li> <li>• Simple, 2-wire hookup</li> <li>• 5-minute delay</li> <li>• "F" suffix denotes 6" wire leads</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• 1.5 amps</li> <li>• 15 amp inrush</li> <li>• Frequency: 50-60 Hz</li> <li>• Fixed time delays: 3 or 5-minutes</li> <li>• Voltage drop: 3.5 V typical, 4.5 V maximum @ 1.5 amps</li> <li>• Holding current minimum: 40 mA</li> <li>• Dimensions: 2" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• A-1: EAC-500, EAC-501-300-W</li> <li>• Diversified: AC-505-5</li> <li>• Mars: 32005, 32505</li> <li>• Supco: TD735W (18-30 VAC)</li> </ul>
	<p><b>ICM203</b></p> <ul style="list-style-type: none"> <li>• Universal voltage operation</li> <li>• Higher 1.5 amp power rating</li> <li>• Compressor lockout/anti-short cycle timer</li> <li>• Helps to protect compressors from damage caused by rapid short cycling</li> <li>• Simple, 2-wire hookup</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-240 VAC</li> <li>• 1.5 amps</li> <li>• 15 amp inrush</li> <li>• Frequency: 50-60 Hz</li> <li>• Knob-adjustable delays: .03-10 mins. (1.8-600 sec.)</li> <li>• Voltage drop: 3.5 V typical, 4.5 V maximum @ 1.5 amps</li> <li>• Holding current minimum: 40 mA</li> <li>• Dimensions: 2" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• A-1: EAC-501-ADJ</li> <li>• Diversified: AC-503</li> <li>• Mars: 32001, 32387, 32392</li> <li>• Robertshaw: 3310-072</li> <li>• Supco: TD72, TD73</li> <li>• Wagner/DiversiTech: ADB-1</li> </ul>



# Timers and Voltage Monitors

ICM Control	Features and Applications	Specifications	Replaces
<b>By-Pass Timer</b>			
	<p><b>ICM175</b></p> <ul style="list-style-type: none"> <li>• Designed to bypass a low pressure switch or other device during startup</li> <li>• Ideal for low ambient startups</li> <li>• Key component for "winter start" kits</li> <li>• Helps to reduce nuisance lockouts</li> <li>• Universal AC voltage operation</li> <li>• Knob-adjustable time delay</li> <li>• Epoxy-encapsulated circuitry</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-240 VAC</li> <li>• 1 amp maximum</li> <li>• 10 amp inrush</li> <li>• 40 mA minimum</li> <li>• Frequency: 50-60 Hz</li> <li>• Knob-adjustable time delay: 10-1,000 seconds</li> <li>• Dimensions: 2" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• Mars: 32395</li> <li>• Supco: TD32</li> </ul>
<b>Lockout Protection</b>			
	<p><b>ICM220</b></p> <ul style="list-style-type: none"> <li>• UL 873 recognition as compressor controller</li> <li>• Low cost lockout relay</li> <li>• Helps eliminate nuisance lockouts typical of Series 84 and 93 impedance relays</li> <li>• Ideal for use with safety/interlock switches</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Power consumption: 2 watts maximum @ lockout</li> <li>• Relay: 1 form C</li> <li>• Contacts: 2 amps @ 30 VAC resistive</li> <li>• Dimensions: 2" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• Essex: Impedance Relays Series 84 and 93</li> </ul>
<b>Off Delay Timing Purges Residual Air</b>			
	<p><b>ICM253</b></p> <ul style="list-style-type: none"> <li>• UL 873 recognition for compressor applications</li> <li>• Post-purge fan delay timer</li> <li>• OFF delay purges ducts of residual air at the end of the heating/cooling cycle</li> <li>• Interrogation delay eliminates nuisance trips due to thermostat bounce/tampering</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• 1 amp maximum</li> <li>• 40 mA minimum</li> <li>• 10 amp inrush</li> <li>• Adjustable time delay: 12-390 seconds</li> <li>• Dimensions: 2" x 3"</li> </ul>	<ul style="list-style-type: none"> <li>• Field Controls: 46144700</li> <li>• Gemline: 1C216</li> <li>• Mars: 32393</li> </ul>






## Three Phase Monitors




ICM Control	Features and Applications	Specifications	Replaces
<b>3-Phase Line Voltage Monitors - Full Performance</b>			
	<p><b>ICM450</b></p> <ul style="list-style-type: none"> <li>• Fully programmable with LCD diagnostic display</li> <li>• Easy to configure - simple push button setup</li> <li>• Easy to customize - set points, variables and features are fully adjustable and may be defined by the user while in control SETUP mode</li> <li>• 25-fault memory storage, non-volatile</li> <li>• Independent high and low voltage settings ideal for dual voltage compressor applications</li> <li>• Identifies front and back side faults</li> <li>• Reset mode: choice of auto or manual</li> <li>• Protects against: voltage unbalance, high/low voltage, phase loss, reversal, faulty power, incorrect sequencing and rapid short cycling</li> <li>• Reliable, high temperature LCD to 167° F</li> <li>• Simultaneous voltage display, no scrolling</li> <li>• Line voltage programmable</li> <li>• Universal voltage operation: 190-630 VAC</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 190-630 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Voltage unbalance: Adjustable: 2-25%</li> <li>• Control: 18-240 VAC (optional)</li> <li>• Delay on break timer: 0-10 mins.</li> <li>• Output:</li> <li>• Relay: SPDT</li> <li>• N.O.: 10 amps</li> <li>• N.C.: 6 amps</li> <li>• Dimensions: 6.5" x 4.25" x 1.5"</li> </ul>	<ul style="list-style-type: none"> <li>• A-1:</li> <li>• EAC-800</li> <li>• EAC-8000</li> <li>• EAC-8002</li> <li>• Copeland: 085-0160-00</li> <li>• Diversified:</li> <li>• AC-2020</li> <li>• AC-301</li> <li>• AC-302</li> <li>• Mars: PFM-2000</li> <li>• Motorsaver: 455</li> <li>• SSAC: QLM, QLV</li> <li>• TimeMark: 265</li> <li>• Wagner/DiversiTech:</li> <li>• DTP-3, WPC-800</li> </ul>
<b>Phase Loss and Reversal Protection - Ultra Low Cost</b>			
	<p><b>ICM401</b></p> <ul style="list-style-type: none"> <li>• Low cost 3-phase protection for single side</li> <li>• Monitors for phase reversal, phase loss, unbalance % as a function of input voltage</li> <li>• Bright LED indicators for ON &amp; FAULT</li> <li>• Universal 3-phase input: 190-600 VAC</li> <li>• Highly reliable passive electronics</li> <li>• Epoxy coated for added protection</li> <li>• Patented: U.S. Patent No. 5,337,206</li> <li>• For open-board model order ICM403</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 190-600 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Control: 18-30 VAC</li> <li>• Output:</li> <li>• Relay: SPST</li> <li>• N.O.: 10 amps</li> <li>• Dimensions: 3.25" x 3" x 1.25"</li> </ul>	<ul style="list-style-type: none"> <li>• Supco: TPMP2</li> <li>• Mars: 32536</li> </ul>
	<p><b>ICM402</b></p> <ul style="list-style-type: none"> <li>• Low cost 3-phase protection for single side</li> <li>• Monitors for phase reversal, phase loss, unbalance % as a function of input voltage</li> <li>• Bright LED indicators for ON &amp; FAULT</li> <li>• Universal 3-phase input: 190-600 VAC</li> <li>• Highly reliable passive electronics</li> <li>• Epoxy coated for added protection</li> <li>• Patented: U.S. Patent No. 5,337,206</li> <li>• For open board model order ICM404</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 190-600 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Control: 115 or 208/240 VAC</li> <li>• Output:</li> <li>• Relay: SPST</li> <li>• N.O.: 30 amps</li> <li>• Dimensions: 3.25" x 3" x 1.25"</li> </ul>	<ul style="list-style-type: none"> <li>• Supco: TPMP2</li> <li>• Mars: 32536</li> </ul>



# Motor and Surge Protectors

ICM Control	Features and Applications	Specifications	Replaces
<b>Single Phase Motor Protection</b>			
	<p><b>ICM491</b></p> <ul style="list-style-type: none"> <li>• Low cost single phase motor protection</li> <li>• Built in anti-short cycle protection</li> <li>• Detects high/low voltage conditions</li> <li>• Helps prevent rapid system recycling</li> <li>• LED indicators: • Green for normal conditions, Red for fault</li> <li>• Heavy duty SPDT, isolated relay output</li> <li>• Interrogation delay prevents nuisance trips: 5 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 95-270 VAC</li> <li>• Output: Relay: SPDT N.C./N.O.: 5 amps</li> <li>• Time delay range: Adjustable 6-600 seconds</li> <li>• Dimensions: 3.25" x 3" x 1.25"</li> </ul>	<ul style="list-style-type: none"> <li>• A-1: EAC-401, EAC-402 EAC-403, EAC-404</li> <li>• Diversified: CV-100-RS CV-200-RS15 CV-200-RS20</li> <li>• Wagner/DiversiTech: DSP-1</li> </ul>
	<p><b>ICM492</b></p> <ul style="list-style-type: none"> <li>• Protects against over and under voltage, and rapid short cycling caused by transient faults and power interruptions</li> <li>• Easy-view, backlit digital display</li> <li>• RMS voltage monitoring</li> <li>• Adjustable voltage set point</li> <li>• Adjustable over voltage setting</li> <li>• Adjustable under voltage setting</li> <li>• Adjustable anti-short cycle time delay</li> <li>• Adjustable response time</li> <li>• Control mode</li> <li>• 5-fault memory</li> <li>• Universal line voltage input</li> <li>• Heavy duty SPDT relay output</li> <li>• Universal control voltage input (for integrating a thermostat)</li> </ul>	<p><b>User adjustable settings:</b></p> <ul style="list-style-type: none"> <li>• Voltage set point: 80-300 VAC</li> <li>• Anti-short cycle time delay: 0-720 sec.</li> <li>• Over voltage setting: 5-25%</li> <li>• Under voltage setting: 5-25%</li> <li>• Control mode: On and Off</li> <li>• Response time: 0.1-10 seconds</li> </ul> <p><b>Inputs:</b></p> <ul style="list-style-type: none"> <li>• Line voltage: 80-300 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Accuracy: ±2%</li> <li>• Low power consumption: • Maximum 50 mA @ 120V • Maximum 100 mA @ 240V</li> <li>• Control voltage: 24-240 VAC</li> </ul> <p><b>Output:</b></p> <ul style="list-style-type: none"> <li>• Type: Dry relay contacts</li> <li>• Form: SPDT</li> <li>• Relay contact ratings: N.C. contacts: 10A resistive @ 277 VAC N.O. contacts: 10A resistive @ 277 VAC</li> </ul> <p><b>Mechanical:</b></p> <ul style="list-style-type: none"> <li>• Case dimensions: 3"L x 3.2"W x 1.35"H</li> </ul>	<ul style="list-style-type: none"> <li>• Wagner/DiversiTech: DSP-1</li> </ul>
	<p><b>ICM516</b></p> <ul style="list-style-type: none"> <li>• Type 2 surge protective device</li> <li>• UL Listed</li> <li>• Easy installation</li> <li>• Low cost, high performance</li> <li>• Rugged, reliable</li> <li>• Protects against: Lightning power surges and Voltage surges from A/C, generators, motors</li> <li>• Limited Lifetime Protection Warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Service voltage: 120-240 VAC, single phase</li> <li>• Maximum surge current: 100,000 amps</li> <li>• Maximum energy dissipation: 1,020 Joules</li> <li>• Installation point: Electrical panel and Electrical disconnect</li> <li>• AC protection modes: Line-line, line-ground</li> <li>• Dimensions: 2.75" x 4.75" x 1.75"</li> </ul>	<ul style="list-style-type: none"> <li>• Supco: SCM Plus, SCM150</li> </ul>






## Universal Relay and Blower Controls

ICM Control	Features and Applications	Specifications	Replaces
<p><b>Universal Motor Starting Relay</b></p> 	<p><b>UMSR-50</b></p> <ul style="list-style-type: none"> <li>• Replacement for all standard potential relays</li> <li>• Patented differential voltage sensing</li> <li>• No user-adjustments required</li> <li>• Non-positional mounting configuration</li> <li>• 50A switching capabilities</li> <li>• Universal mounting bracket for easy installation</li> <li>• .250" quick connect termination</li> <li>• Safety timer</li> </ul>	<p><b>General:</b></p> <ul style="list-style-type: none"> <li>• Input: <ul style="list-style-type: none"> <li>• Voltage Rating: 110-270 VAC, Single Phase</li> <li>• Maximum Voltage Contact Rating: 502 VAC (absolute)</li> </ul> </li> <li>• Motor power rating: Up to 10 HP</li> <li>• Operating Position: Non-positional</li> <li>• Safety Time Out: Approximately 1-second per 100 microfarads</li> <li>• Consumption: 5VA max.</li> <li>• Insulation: Class B (130°C); Conforms to IEC 1000- standards (6kV impulse / 6kV contact)</li> <li>• Life Expectancy (min. operations): <ul style="list-style-type: none"> <li>• Mechanical: 1 x 10<sup>6</sup></li> <li>• Electrical: 1x10<sup>6</sup> at 16A 400 VAC 5x10<sup>5</sup> at 35A 400 VAC (break only) 5x10<sup>5</sup> at 50A 400 VAC (break only)</li> </ul> </li> </ul> <p><b>Contacts:</b></p> <ul style="list-style-type: none"> <li>• Contact rating: 50A (break only), 400 VAC cos <math>\theta = 0.7</math> to 0.8</li> </ul>	<ul style="list-style-type: none"> <li>• All standard potential relays</li> <li>• Supco: APRS, SUPR</li> </ul>
<p><b>Fan Blower - Dual On/Off</b></p> 	<p><b>ICM255</b></p> <ul style="list-style-type: none"> <li>• Low cost open board design</li> <li>• High power, relay output</li> <li>• Dual function fan delay timer</li> <li>• Controls the circulating fan in heat pump, A/C and forced air systems</li> <li>• OFF delay purges ducts of residual air</li> <li>• ON delay allows air to reach the proper comfort level prior to energizing the fan</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC <ul style="list-style-type: none"> <li>• N.O.: 20 amps @ 240 VAC</li> <li>• N.C.: 20 amps @ 240 VAC</li> </ul> </li> <li>• Time delays fixed: <ul style="list-style-type: none"> <li>• ON: 1 second</li> <li>• OFF: 60 seconds</li> </ul> </li> <li>• Dimensions: 2.5" x 2.5"</li> </ul>	<ul style="list-style-type: none"> <li>• A-1: 5893</li> <li>• Bard: 8201-056</li> <li>• Mars: 32574</li> <li>• Rheem: 42-22515-01 42-22515-02 42-22515-03</li> <li>• Snyder General/ICP: 1395336</li> </ul>
<p><b>Fan Blower Controls - Form, Fit and Functional OEM Replacement Parts</b></p> 	<p><b>ICM271</b></p> <ul style="list-style-type: none"> <li>• Reliable solid state fan blower control</li> <li>• Specifically designed to replace popular gas furnace centers</li> <li>• Pin selectable blower delays</li> <li>• High power, relay output</li> <li>• Dual function fan delay timer</li> <li>• Controls the circulating fan in HP, A/C and forced air systems</li> <li>• OFF delay purges ducts of residual air</li> <li>• ON delay allows air to reach the proper comfort level prior to energizing the fan</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Contact ratings: N.O.: 20 amps N.C.: 10 amps</li> <li>• Time delays: Heat ON delay: 75 seconds Heat OFF delay: 105 seconds Cool OFF delay: 90 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier: 302075-3 CES0110017 CES0110018 HH84AA010 HH84AA011 HH84AA012 HH84AA013/020 P771-7002</li> <li>• Robertshaw: 695-100</li> </ul>









# Blower and Furnace Controls

ICM Control	Features and Applications	Specifications	Replaces
<b>Fan Blower Controls - Form, Fit and Functional OEM Replacement Parts</b>			
	<p><b>ICM275</b></p> <ul style="list-style-type: none"> <li>• Heavy duty heat relay</li> <li>• Purges ducts of residual air</li> <li>• Integral short cycle protection</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Contact ratings: High: 20 amps @ 240 VAC Low: 10 amps @ 240 VAC</li> <li>• Time delays: Heat ON delay: 60 seconds Heat OFF delay: 60-240 seconds Cool OFF delay: 90 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier: CES0110019, HH84AA001, HH84AA003, HH84AA005, HH84AA009, HH84AA014, HH84AA015, HH84AA021</li> <li>• Robertshaw: 695-101</li> </ul>
	<p><b>ICM277</b></p> <ul style="list-style-type: none"> <li>• Microprocessor-based fan blower</li> <li>• For circulating fan in heat pump, A/C and forced air systems</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Contact ratings: N.O.: 20 amps N.C.: 10 amps</li> <li>• Time delays: Blower ON: 7 seconds Blower OFF: 65 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Goodman: B1370735S, PCBFM131S</li> </ul>
<b>Furnace Controls</b>			
	<p><b>ICM280</b></p> <ul style="list-style-type: none"> <li>• Microprocessor-based fan blower</li> <li>• Inducer fan outputs</li> <li>• Hot surface ignitor output</li> <li>• Flame sensor input</li> <li>• Gas valve output</li> <li>• Status LED for fault codes</li> <li>• Twinning compatible with another ICM280 board</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: Line (98-132 VAC) @ 60 Hz</li> <li>• Fan: 2 HP @ 240 VAC</li> <li>• Inducer motor: 7 amps @ 250 VAC</li> <li>• Gas valve: 1 amps @ 24 VAC</li> <li>• Ignitor: 5 amps @ 120 VAC</li> </ul>	<ul style="list-style-type: none"> <li>• Goodman: B1809906, B1809908, B1809910, B1809913, B1809913S</li> <li>• UTEC: 1012-933D</li> <li>• Texas Instruments: 41F-5</li> <li>• White-Rodgers: 50T35-730, 50T35-743</li> </ul>
	<p><b>ICM281</b></p> <ul style="list-style-type: none"> <li>• Control gas valve, ignitor, blower motor, inducer, humidifier and air cleaner</li> <li>• Microprocessor-based</li> <li>• Designed for 100% gas shutoff in case of ignition failure</li> <li>• Model selection of 80+ and 90+ furnace operation</li> <li>• Reverse polarity protection</li> <li>• Secondary brownout voltage protection</li> <li>• Heating and cooling fan functions in response to standard thermostat</li> <li>• Provides diagnostic LEDs to aid in troubleshooting</li> <li>• Twinning compatible with another ICM281 board</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: Line (98-132 VAC) @ 60 Hz</li> <li>• Operating temperature: -40°F to 176°F / -40°C to 75°C</li> <li>• Ignitor: 5A @ 120 VAC</li> <li>• Cool blower: 30A, 2HP, 240 VAC</li> <li>• Heat: 5A, 1/2 HP, 240 VAC</li> <li>• Inducer motor: 4A, FLA-8.0 LRA @ 120 VAC</li> <li>• Gas valve: 1.5A @ 30 VAC</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier: CES0110020, CES0110048, CES0110057-00, CES0110057-01, CES0110057-02, HH84A016</li> </ul>
	<p><b>ICM282A</b></p> <ul style="list-style-type: none"> <li>• Control gas valve, ignitor, blower motor, inducer, humidifier &amp; air cleaner</li> <li>• Microprocessor-based</li> <li>• Designed for 100% gas shutoff in case of ignition failure</li> <li>• Reverse polarity protection</li> <li>• Secondary brownout voltage protection</li> <li>• Heating and cooling fan functions in response to standard thermostat</li> <li>• Provides diagnostic LEDs to aid in troubleshooting</li> <li>• Includes adapter harness (not shown)</li> <li>• Twinning compatible with another ICM282A board</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: Line (98-132 VAC) @ 60 Hz</li> <li>• Operating temperature: -40°F to 176°F / -40°C to 75°C</li> <li>• Ignitor: 5A @ 120 VAC</li> <li>• Cool blower: 30A, 2HP, 240 VAC</li> <li>• Heat: 5A, 1/2 HP, 240 VAC</li> <li>• Inducer motor: 4A, FLA-8.0 LRA @ 120 VAC</li> <li>• Gas valve: 1.5A @ 30 VAC</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier: HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016, HK42FZ034, 325878-751</li> </ul>



## Furnace Controls

ICM Control	Features and Applications	Specifications	Replaces
	<p><b>ICM286</b></p> <ul style="list-style-type: none"> <li>• Microprocessor-based precision</li> <li>• Controls inducer and blower fan motors, hot surface ignitor, &amp; gas valve</li> <li>• Monitors timing, trial for ignition, flame sensing, pressure and limit switches, and lockout</li> <li>• Designed for 100% gas shutoff in case of ignition failure</li> <li>• Reverse polarity protection</li> <li>• Twinning compatible with another ICM286 control board</li> <li>• Compatible with LP or natural gas</li> <li>• Diagnostic LED to aid in testing/troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• Trial for Ignition: 7 seconds</li> <li>• Pre-purge Time: 15 seconds</li> <li>• Ignitor Warm Up Time: 7 seconds</li> <li>• Post-Purge Time: 15 seconds</li> <li>• Total Trials for Ignition: 3 (auto reset after 1 hr.)</li> <li>• Heat Blower On: 30 seconds</li> <li>• Heat Blower Off: Selectable 90/120/150/180 sec.</li> <li>• Fan (Heat) On/Off Delay: 1 sec.</li> <li>• Cool On: 5 seconds</li> <li>• Cool Off: 45 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Goodman: PCBBF112S, B18099-26S, 0130F00005S</li> </ul>
	<p><b>ICM289</b></p> <ul style="list-style-type: none"> <li>• Controls inducer fan motor, blower fan and monitors limit switches</li> <li>• Microprocessor based design</li> <li>• Functions with all 24 VAC thermostats</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage Range: Line (98-132 VAC) @ 60 Hz</li> <li>• Cool blower: 20A @ 120 VAC</li> <li>• Heat blower: 20A @ 120 VAC</li> <li>• Inducer motor: 5A @ 120 VAC</li> <li>• Cool blower On Delay: 1 second</li> <li>• Cool blower Off Delay: 1 second</li> <li>• Heat blower On Delay: 45 sec.</li> <li>• Heat blower Off Delay: 90, 150, 210, 270 sec.</li> </ul>	<ul style="list-style-type: none"> <li>• Lennox: Replaces all BCC1, BCC2 and BCC3 circuit boards, including 48K98 and 45K48.</li> </ul>
	<p><b>ICM2805A</b></p> <ul style="list-style-type: none"> <li>• Controls gas valve, inducer draft motor, circulating blower and hot surface ignitor</li> <li>• Monitors timing, trial for ignition, flame sensing, lockout, plus pressure, rollout and limit switches.</li> <li>• Microprocessor-based precision</li> <li>• Twinning compatible w/ another ICM2805 furnace control</li> <li>• Diagnostic LEDs aid in testing and troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage Range: Line (98 to 132 VAC) @ 60Hz</li> <li>• Ignitor: 5A, 120 VAC</li> <li>• Cool Blower: 10A, 2HP, 240 VAC</li> <li>• Heat: 5A, ½ HP, 250 VAC</li> <li>• Inducer Blower: 4A, 120 VAC</li> <li>• Gas Valve: 1A, 24 VAC</li> <li>• Humidifier Motor: 0.5A, 24 VAC</li> <li>• Electronic Air Cleaner: 1A, 120 VA</li> </ul>	<ul style="list-style-type: none"> <li>• Nordyne: 903106-Kit (for use with G3, G4, G5, G6, M2 and M3 furnace modules)</li> </ul>
	<p><b>ICM291</b></p> <ul style="list-style-type: none"> <li>• Direct Spark Ignition (DSI) control board</li> <li>• Microprocessor-based</li> <li>• Controls combustion, blower and indoor motors; spark ignitor and the gas valve</li> <li>• Monitors timing, trial for ignition, flame sensing and lockout</li> <li>• 100% lockout safety feature</li> <li>• Compatible with LP or Natural Gas</li> <li>• Status LED for fault codes to aid in troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• Control voltage: 24 VAC (18-30 VAC), 60 Hz</li> <li>• Line voltage: 208/230 VAC, 60 Hz</li> <li>• Power cons: 0.3A plus gas valve current @ 24 VAC</li> <li>• Operating temp: -40°C (-40°F) to 75°C (176°F)</li> </ul> <p><b>Timing</b></p> <ul style="list-style-type: none"> <li>• Pre-purge: 45 seconds</li> <li>• Trial for Ignition: 5+2 seconds</li> <li>• Retry period: Every 20 sec. for 15 min.</li> <li>• Lockout: manual reset</li> <li>• Post-purge: 45 seconds</li> </ul> <p><b>Inputs</b></p> <ul style="list-style-type: none"> <li>• Power: RT and C</li> <li>• Thermostat interface: R, W and G</li> <li>• Safety switches: RS, LS, and CS</li> <li>• Combustion motor Hall Effect sensor</li> <li>• Flame sensing</li> </ul> <p><b>Outputs</b></p> <ul style="list-style-type: none"> <li>• Spark</li> <li>• Gas Valve: GV</li> <li>• Combustion motor: CM</li> <li>• Blower motor: BM</li> <li>• Indoor fan motor: IFO</li> </ul> <p><b>LED indicators</b></p> <ul style="list-style-type: none"> <li>• Red LED: Steady ON- normal operation/Flashing – fault codes</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier: LH33WP003/3A</li> </ul>



# Furnace and Ignition Controls

ICM Control	Features and Applications	Specifications	Replaces
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**ICM292**

- Direct Spark Ignition (DSI) control board
- Microprocessor-based
- Controls Induced Draft and indoor blower motors; humidifier output, spark ignitor and gas valve
- Monitors timing, trial for ignition, flame sensing and lockout
- 100% lockout safety feature
- Compatible with LP or Natural Gas
- Status LEDs for fault codes to aid in troubleshooting

- Control voltage: 24 VAC (18-30 VAC), 60 Hz
- Line voltage: 115 VAC, 60 Hz
- Power cons: 0.3A plus gas valve current at 24 VAC
- Operating temp: -40°C (-40°F) to 75°C (176°F)

**Timing**

- Pre-purge: 30 seconds
- Trial for ignition: 7 seconds
- Retries: 2 groups of 2, 30 seconds delay within the group and 3 minutes delay between groups
- Lockout: 1 hour
- Post-purge: 90, 120, 160 and 180 seconds

**Inputs**

- Power: 24 VAC and COM
- Thermostat interface: R, W, Y and G
- System switches: Vent Pressure and Limit switches (Main and Over-temperature switches in series)
- Flame Sensing
- Heat blower OFF delay: SW1 toggle switch

**Outputs**

- Spark: SE
- Gas Valve: GV
- Inducer draft motor: IDM
- Electric Air Cleaner: EAC
- Humidifier relay: HUM
- Heat/Cool relay: H/C
- Blower motor: FAN, COOL and HEAT speeds

**LED indicators**

- Power, green LED: PWR
- Status, green LED: OK
- Flame status, yellow LED: FLAME

- Rheem: 62-24140-04



**ICM2807**

- Controls gas valve, ignitor, blower motor, inducer, humidifier and air cleaner
- Microprocessor-based precision
- Designed for 100% gas shutoff in case of ignition failure
- Twinning compatible w/ another ICM2807 control
- Reverse polarity protection
- Secondary brownout voltage protection
- Compatible with 24 VAC standard thermostat
- Continuous Blower Speed Jumper
- Limit Switch Lockout Time
- Limit Switch Lockout After Power Interruption
- Self-Diagnostics
- Provides diagnostic LEDs to aid in troubleshooting

**ENVIRONMENT**

- Ambient Temperature Operating: -40°F to 176°F
- Storage: -40°F to 185°F
- Humidity: 5% to 95% R.H. (non-condensing) @+55°F

**ELECTRICAL**

- Voltage Range: Line (98 to 132 VAC) @ 60Hz
- Ignitor: 5A @ 120 VAC
- Cool Blower: 10 HP, 120 VAC
- Low Heat: 5A, 1/2 HP, 120 VAC
- High Heat: 10A, 1 HP, 120 VAC
- Inducer Motor: 4A, FLA-8.0 LRA @ 120 VAC
- Gas Valve: 1.5A @ 30 VAC
- EAC: 1A@120 VAC
- Humidifier: 0.5A & 24 VAC

- Carrier: HK42FZ005, HK42FZ010, HK42FZ015, HK42FZ017, 325879-Kit

## Gas Ignition Controls



**ICM290A**

- Universal intermittent pilot gas ignition control
- Provides ignition sequence, flame monitoring and safety shutoff for single/dual rod intermittent pilot control applications
- For gas fired furnaces, boilers and other heating appliances
- Switch selectable pre-purge and ignition trial times with permanent lock
- Works with or without vent damper connected
- Works with both Natural & LP gas systems

- Control voltage: Line 24V (18-30 VAC), 50-60 Hz
- Anticipator setting: 0.3A plus valve load @ 24 VAC
- Trial for ignition: 15 or 90 sec. (switch selectable)

**LEDs:**








- Green status LED provides system status & error codes
- Yellow flame LED indicates flame presence & flame strength

- Operating temperatures: Min. ambient temp. rating of -40°F (-40°C) and max. of 176°F (75°C)
- Relative humidity: 0% to 95% non-condensing

- Honeywell: S8610U3009 (and compatible Camstat, Fenwal, HSC, Penn-Johnson, Robertshaw and White Rodgers models)



## Ignition Controls, Duty Timers, and Defrost Controls





ICM Control	Features and Applications	Specifications	Replaces
<b>Intermittent Ignition</b>			
 	<p><b>ICM1503</b></p>	<ul style="list-style-type: none"> <li>• Safety Timing - 45 seconds</li> </ul>	<ul style="list-style-type: none"> <li>• Carlin: 48245</li> <li>• Honeywell: R8184G4009, R8184G1138, R8184G1427, R8184G4025</li> <li>• Tempstar/Hell: 1147017</li> <li>• White-Rodgers: 668-401</li> </ul>
<b>Duty Cycle Timers</b>			
 	<p><b>ICM305 (minutes), ICM306 (seconds)</b></p> <ul style="list-style-type: none"> <li>• Reliable duty cycle timer ideally suited for defrost applications</li> <li>• Suitable for process equipment or applications requiring intermittent delays</li> <li>• Switch-settable time delays</li> <li>• Digital timing accuracy</li> <li>• Reliable solid state output</li> <li>• Epoxy-encapsulated for greater reliability</li> <li>• On time starts at power up</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-240 VAC</li> <li>• 1 amp / 10 amp inrush</li> <li>• <b>Time delay: ICM305</b> Switch-settable from: 11,023 minutes in 1 minute intervals</li> <li>• <b>Time delay: ICM306</b> Switch-settable from: 11,023 seconds in 1second intervals</li> <li>• Dimensions: 2" x 3"</li> </ul>	
<b>Defrost Controls - Form, Fit and Functional OEM Replacement Parts</b>			
	<p><b>ICM300</b></p> <ul style="list-style-type: none"> <li>• Replacement for OEM Type 621</li> <li>• Low cost, time and temperature defrost</li> <li>• HOLD input tracks compressor run times</li> <li>• Time and temperature terminate</li> <li>• 10-minute fixed defrost time</li> <li>• Pin-selectable intervals: 30/60/90 minutes</li> <li>• Test pins reduce test time by 256x</li> <li>• Stable pin post construction</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Output: Relay, SPST</li> <li>• N.O.: 1 amp</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-Sel. 30/60/90 min.</li> </ul>	<ul style="list-style-type: none"> <li>• Amana: C64301-1, C64310-1</li> <li>• Arcoaire: 32312-00, 3232140</li> <li>• Artesian: 10321-00</li> <li>• Coleman: 3030A374</li> <li>• Essex: 621-1 to 621-11, 621-310</li> <li>• Goodman: B12260-06</li> <li>• Heil Quaker: HQ1052757</li> <li>• Honeywell: ST74A1004, ST74A1020, ST74A1038</li> <li>• ICP: 1052757</li> <li>• Intertherm: 6208800</li> <li>• Lennox: 33G9501</li> <li>• Rheem: 47-21776-01</li> <li>• Robertshaw/Uni-Line: TD-10, DT2-1000</li> <li>• Snyder General: 1395-329</li> <li>• Steveco: 90-621</li> <li>• Therm-O-Disc: 26E-10</li> <li>• Weatherking (Addison): 840-4-5548</li> <li>• White-Rodgers: 90-621</li> </ul>
	<p><b>ICM301</b></p> <ul style="list-style-type: none"> <li>• Low cost, time and temperature defrost</li> <li>• Sensor input for defrost terminate</li> <li>• Time and temperature terminate</li> <li>• 10-minute fixed defrost time</li> <li>• Pin-selectable intervals: 30/60/90 min.</li> <li>• Test pins reduce test time by 256x</li> <li>• HOLD input accumulates actual compressor run times</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Output:</li> <li>• Type: Relay, SPST N.O.: 1 amp</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-Sel. 30/60/90 min.</li> </ul>	<ul style="list-style-type: none"> <li>• Goettl: 305007</li> <li>• ICM: DFOSP24A2</li> <li>• Rheem: 47-21776-06</li> </ul>
	<p><b>ICM302</b></p> <ul style="list-style-type: none"> <li>• Low cost, time and temperature defrost</li> <li>• Time and temperature terminate</li> <li>• 10-minute fixed defrost time</li> <li>• Pin-selectable intervals: 30/60/90 min.</li> <li>• Test pins reduce test time by 256x</li> <li>• Strip heat, reversing valve outputs</li> <li>• High power output (1 HP fan at 240 VAC)</li> <li>• Integral short cycle protection</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Output:</li> <li>• Type: Relay, SPST N.O.: 1 amp</li> <li>• Anti-short cycle time: 5 minutes</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-Sel. 30/60/90 min.</li> </ul>	<ul style="list-style-type: none"> <li>• ICM: DFORB-AB1004</li> <li>• Nordyne: 621301A, 621579B, 621579C, 917178</li> </ul>






# Defrost and Head Pressure Controls

ICM Control	Features and Applications	Specifications	Replaces
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Defrost Controls - Form, Fit and Functional OEM Replacement Parts			
	<p><b>ICM304</b></p> <ul style="list-style-type: none"> <li>• Replacement for ICP 1069364</li> <li>• Sensor input for defrost terminate</li> <li>• Time and temperature terminate</li> <li>• 10-minute fixed defrost time</li> <li>• Pin-selectable intervals: 30/60/90 min.</li> <li>• Y input tracks compressor run times</li> <li>• Integral short cycle protection</li> <li>• Cool active reversing valve</li> <li>(See ICM323 for heat active model)</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Strip heat, reversing valve outputs: 24 VAC, 1 amp</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-Sel. 30/60/90 min.</li> </ul>	<ul style="list-style-type: none"> <li>• ICP: 1069364</li> </ul>
	<p><b>ICM318</b></p> <ul style="list-style-type: none"> <li>• Low cost, time and temperature defrost</li> <li>• Time and temperature terminate</li> <li>• Pin-selectable intervals: 30/60/80 minutes</li> <li>• Test pins reduce test time by 256x</li> <li>• HOLD input tracks compressor run times</li> <li>• High power output (1/2 HP fan @ 240 VAC)</li> <li>• Strip heat, reversing valve outputs (24 VAC, 1 amp)</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Outdoor fan relay output:               <ul style="list-style-type: none"> <li>• 1/2 HP fan @ 240 VAC</li> </ul> </li> <li>• Strip heat, reversing valve outputs: 24 VAC, 1 amp</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-selectable 30/60/80 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Goodman: B1226008</li> <li>• ICM: W1001-4</li> </ul>
	<p><b>ICM321</b></p> <ul style="list-style-type: none"> <li>• Low cost, time and temperature defrost</li> <li>• Time and temperature terminate</li> <li>• 10-minute fixed defrost time</li> <li>• Pin-selectable intervals: 30/50/90 minutes</li> <li>• Test pins reduce test time by 256x</li> <li>• High power output, outdoor fan (1/2 HP fan @ 240 VAC)</li> <li>• Strip heat, reversing valve outputs (24 VAC, 1 amp)</li> <li>• Integral short cycle protection</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50-60 Hz</li> <li>• Outdoor fan relay output:               <ul style="list-style-type: none"> <li>N.O.: 20 amps</li> <li>N.C.: 10 amps</li> </ul> </li> <li>• Form: SPDT</li> <li>• Anti-short cycle time: 5 minutes</li> <li>• Defrost time: 10-minute fixed</li> <li>• Interval times: Pin-selectable 30/50/90 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier:               <ul style="list-style-type: none"> <li>CES0110063-00</li> <li>CES0110063-01</li> <li>CES0110063-02</li> <li>CES0110063-02A</li> <li>CES0130024-01</li> <li>150-83-6A</li> </ul> </li> </ul>
	<p><b>ICM350</b></p> <ul style="list-style-type: none"> <li>• Adjustable 30, 60, 90, &amp; 120 minute timing sequences</li> <li>• Speedup jumper for quicker testing and troubleshooting</li> <li>• Brownout monitoring</li> <li>• Microcontroller precision timing</li> <li>• Time and temperature termination</li> <li>• Quiet Shift : Reduces noise disturbance when entering &amp; exiting the defrost sequence (HK32EA003 &amp; HK32EA008)</li> <li>• 5 minute anti short cycle delay (HK32EA003 &amp; HK32EA008)</li> <li>• Optional random start timer (HK32EA003 &amp; HK32EA008)</li> </ul>	<ul style="list-style-type: none"> <li>• Voltage: 18-30 VAC</li> <li>• Frequency: 50/60 Hz</li> <li>• Power Consumption: 1 Watt max.</li> <li>• Current Draw: 300mA maximum</li> <li>• Maximum Defrost Sequence: 10 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier:               <ul style="list-style-type: none"> <li>HK32EA001</li> <li>HK32EA003</li> <li>HK32EA008</li> </ul> </li> <li>And comparable defrost control boards</li> </ul>







## Head Pressure/Low Ambient Fan Controls

	<p><b>ICM325HN (120-480 VAC)</b></p> <ul style="list-style-type: none"> <li>• Typical application: A/C and heat pumps</li> <li>• Integral heat pump bypass circuitry allows electronic bypass of speed control</li> <li>• Eliminates overshoots common to on/off and pressure switch controls</li> <li>• Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions</li> <li>• Hard start, low temperature cutoff, isolated 24 VAC supply</li> <li>• Controls up to 3 refrigerant circuits</li> </ul>	<ul style="list-style-type: none"> <li>• Input:               <ul style="list-style-type: none"> <li>• Control: 18-30 VAC</li> <li>• Frequency: 50-60 Hz, 1.8 VA max.</li> <li>• Line input:                   <ul style="list-style-type: none"> <li>120-480 VAC (ICM325HN)</li> <li>600 VAC (ICM325HNV)</li> </ul> </li> </ul> </li> <li>• Output:               <ul style="list-style-type: none"> <li>• Maximum: 10 amps</li> <li>• Minimum: 100 mA</li> </ul> </li> <li>• Modulation: 70°F to 100°F</li> <li>• Dimensions: 4.5" x 3" x 1.75"</li> </ul>	<ul style="list-style-type: none"> <li>• ACT: FM2000</li> <li>• Hoffman:               <ul style="list-style-type: none"> <li>800, 800A, 800AA</li> <li>814-50</li> <li>816-10</li> </ul> </li> <li>• Ranco: E31Series</li> </ul>
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## Head Pressure Controls and Thermostats

ICM Control	Features and Applications	Specifications	Terminations
<b>Head Pressure/Low Ambient Fan Controls</b>			
	<p><b>ICM326HN</b> (120 or 208/240 VAC)</p> <ul style="list-style-type: none"> <li>• Integral heat pump bypass circuitry allows electronic bypass of speed control</li> <li>• Built in transformer eliminates cost, reduces installation time and simplifies wiring</li> <li>• Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions</li> <li>• Hard start, low temperature cutoff, high temp. bypass</li> <li>• Ideal for line voltage air conditioning and refrigeration</li> </ul>	<ul style="list-style-type: none"> <li>• Input: Control: 120 or 208/240 VAC Frequency: 50-60 Hz</li> <li>• Output: Maximum: 10 amps Minimum: 100 mA</li> <li>• Modulation: 70°F to 100°F</li> <li>• Dimensions: 4.5" x 3" x 2"</li> </ul>	<ul style="list-style-type: none"> <li>• ACT: FM4000</li> <li>• Hoffman: 800, 800A, 800AA 814-50 816-10</li> <li>• Ranco: E31</li> </ul>
<b>Standard Non-Programmable Thermostats</b>			
	<p><b>SC1600L</b></p> <ul style="list-style-type: none"> <li>• Single-stage heat thermostat</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• Large backlit LCD display</li> <li>• Compatible with gas, oil and hydronic systems</li> <li>• Battery operated</li> <li>• Low battery indicator</li> <li>• Millivolt compatible</li> <li>• Freeze protection feature</li> <li>• Remote sensor compatible</li> <li>• Selectable °F and °C</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 3 amp maximum total load</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	R, W, S1, S2
	<p><b>SC2000L</b></p> <ul style="list-style-type: none"> <li>• For single-stage heat/cool or single-stage heat pump</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• Large backlit LCD display</li> <li>• Battery operated</li> <li>• Low battery indicator</li> <li>• Millivolt compatible</li> <li>• Manual changeover</li> <li>• Freeze protection</li> <li>• Zone compatible</li> <li>• Selectable °F and °C</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 3 amp maximum total load</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	RC, RH, W, Y, O, B, G
	<p><b>SC2010L</b></p> <ul style="list-style-type: none"> <li>• For single-stage heat/cool or single-stage heat pump</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• SimpleSet™ target programming technology (config. only)</li> <li>• Large display with backlight</li> <li>• Adjustable temperature differential</li> <li>• Dual powered</li> <li>• Manual changeover</li> <li>• Permanent memory</li> <li>• Easy access terminal block</li> <li>• Field adjustable calibration</li> <li>• 4- or 5-wire compatible</li> <li>• Freeze protection</li> <li>• Keypad lockout</li> <li>• Selectable °F and °C</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 3 amp maximum total load</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	RC, RH, C, W, Y, O, B, G
	<p><b>SC2201L</b></p> <ul style="list-style-type: none"> <li>• For two-stage heat, one-stage cool heat pump only</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• Large backlit LCD display</li> <li>• Hardwired</li> <li>• Manual changeover</li> <li>• Status LEDs</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 4 amp maximum total load</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	R, C, Y1, W2, O, B, G, E
	<p><b>SC2211L</b></p> <ul style="list-style-type: none"> <li>• For three-stage heat, two-stage cool heat pump</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• SimpleSet™ target programming technology (config. only)</li> <li>• Large display with backlight</li> <li>• Adjustable temperature differential</li> <li>• Hardwired</li> <li>• Manual changeover</li> <li>• Permanent memory</li> <li>• Easy access terminal block</li> <li>• Field adjustable calibration</li> <li>• Zoning system compatible</li> <li>• Selectable °F and °C</li> <li>• Permanent memory</li> <li>• Status LED</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 4 amp maximum total load</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	R, C, Y1, Y2, W2, O, B, G, E, L, W3



# Thermostats

ICM Control	Features and Applications	Specifications	Terminations
<b>Standard Programmable Thermostats</b>			
	<p><b>SC3000L</b></p> <ul style="list-style-type: none"> <li>• For single-stage heat/cool or single-stage heat pump</li> <li>• 7-day, 5-2-day and 5-1-1-day programming</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• New SimpleSet™ Target Programming technology</li> <li>• Large display with backlight</li> <li>• Adjustable temperature differential</li> <li>• Battery powered</li> <li>• Manual changeover</li> <li>• Permanent memory</li> <li>• Easy access terminal block</li> <li>• Field adjustable calibration</li> <li>• Millivolt compatible</li> <li>• Freeze protection</li> <li>• Zoning system compatible</li> <li>• Soft-touch controls</li> <li>• Selectable °F and °C</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 3 amp maximum total load</li> <li>• Easy access terminal block</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	<p>RC, RH, W, Y, O, B, G</p>
<b>PRO Series Programmable Thermostats</b>			
	<p><b>SC5010 PRO</b></p> <ul style="list-style-type: none"> <li>• For single-stage heat/cool or single-stage heat pump</li> <li>• 7-day, 5-2-day and 5-1-1-day programming</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• Manual or auto changeover</li> <li>• ICM patent-pending SimpleSet™ Target Programming technology</li> <li>• Large display with backlight</li> <li>• Permanent memory</li> <li>• Dual powered (battery or hardwire)</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 4 amp maximum total load</li> <li>• Easy access terminal block</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	<p>RC, RH, C, W/O/B, Y, G, S1, S2</p>
	<p><b>SC5011 PRO</b></p> <ul style="list-style-type: none"> <li>• For single-stage heat/cool or single-stage heat pump</li> <li>• 7-day, 5-2-day and 5-1-1-day programming</li> <li>• ICM patented Thermal Intrusion Barrier</li> <li>• ICM SimpleSet™ Target Programming</li> <li>• Large backlit LCD display</li> <li>• Hardwired</li> <li>• Auto or Manual changeover</li> <li>• Permanent memory</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 4 amp maximum total load</li> <li>• Easy access terminal block</li> <li>• Temperature control ranges: 45°F to 90°F, Accuracy ± 1°F</li> </ul>	<p>RC, RH, C, W/O/B, Y, G, S1, S2</p>
<b>Frost Sentry™ Garage Thermostats</b>			
	<p><b>FS1500VL</b></p> <ul style="list-style-type: none"> <li>• Controls single stage heating systems</li> <li>• Millivolt, hydronic (water or steam) system, gas and electric systems</li> <li>• Battery operated</li> <li>• Backlit display</li> <li>• Mercury-free, environmentally safe</li> <li>• Remote sensor compatible (ACC-RT104)</li> <li>• Vertical design for easy J-box installation</li> <li>• Perfect for use with unit heaters</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Rating: 24 VAC (18-30 VAC) 1 amp maximum per terminal 2 amp maximum total load</li> <li>• Easy access terminal block</li> <li>• Temperature control ranges: 35°F to 75°F, Accuracy: ±1°F</li> </ul>	<p>R, W, G, S1, S2</p>

## Dryout and Programmable Thermostats

### Features

- Two-wire installation
- Four fixed setpoint models to choose from 60°F to 75°F
- Temporary use for dryout applications
- Can be used as a low ambient cutoff switch

### Specifications

- Input: 18-30 VAC
- Output: 2 amp maximum
- Temperature Control Range: 60°F to 75°F (±9°F)



Item ID	Dryout Thermostats			
	SC060	SC065	SC070	SC075
Temperature Range	60°F ±9°	65°F ±9°	70°F ±9°	75°F ±9°
2-Wire	•	•	•	•
Heat	•	•	•	
Cool				•

## Air Pressure Sensing Switch Kits



Manufactured by  
CLEVELAND CONTROLS

### Features

- Mounts with the diaphragm in vertical plane
- Easy installation
- Designed for residential furnace and light commercial aftermarket applications; duct heater, oven, and other HVAC or energy management applications



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS000	Field Adjustable Switch Kit	0.10"wc To 10.0"wc.	-40F To 190F	SPDT	1/4" Quick-Connect Terminals	UL, CUL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS495	Field Adjustable Switch Kit	0.20"wc To 1.0"wc.	-40F To 190F	SPDT	3 Male 90° Quick-Connect terminals	UL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS498	Field Adjustable Switch Kit	1.0"wc To 4.0"wc.	-40F To 190F	SPDT	3 Male 90° Quick-Connect terminals	UL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS222	Field Adjustable Switch Kit	0.05"wc To 12.0"wc.	-40F To 180F	SPDT	Screw Top Terminals With Cup Washers	UL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS460	Field Adjustable Manual Reset Kit	0.40"wc To 12.0"wc.	—	SPST-NC (Manual Reset)	Screw Top Terminals With Cup Washers	UL

## Air Pressure Sensing Switch Kits



Manufactured by  
CLEVELAND CONTROLS

### Features

- Mounts with the diaphragm in vertical plane
- Easy installation
- Designed for residential furnace and light commercial aftermarket applications; duct heater, oven, and other HVAC or energy management applications



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS221	Fixed Set Point Switch Kit	Operates On Pressure Rise At 0.05±0.02" w.c.	-40F To 180F	SPDT	1/4" Male 90° Quick-Connect terminals	UL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS400	Field Adjustable Switch Kit	0.15"wc To 5.0"wc.	-40F To 180F	SPDT	Screw Terminals With Cup Washers	UL, CUL



Item ID	Description	Range	Operating Temp. Range	Contact Arrangement	Connection	Approval
<b>Packard</b>						
PS415	Field Adjustable Switch Kit	0.15"wc To 5.0"wc.	-40F To 180F	SPST-NO. SPST-NC, SPDT	1/4" 90° Quick-Connect Terminals, Screw Terminals With Cup Washers	UL



Item ID	Description	Includes
<b>Packard</b>		
PS606	Universal Air Flow Sample Probe & Tubing Kit	7" Universal Probe, Mounting Flange, 6-32 Slotted Flange-Locking set Screw, 3" Tubing

## Thermocouples

### Features

- Designed to simplify installation on automatic controls and burners.
- Stainless steel head and weld at tip to provide reliable performance.
- Kit includes adapters to fit most types of pilot burners.
- Five popular lengths are available.



Item ID	Length (In.)	Honeywell	Replaces		
			Johnson	Penn	Robertshaw
<b>Packard</b>					
22218	18	Q340A1066	K19AT-18 K15DS-18	K19AT-18 K15DS-18	1900-018 1980-018
22224	24	Q340A1074	K19AT-24 K15DS-24	K19AT-24 K15DS-24	1900-024 1980-024
22230	30	Q340A1082	K19AT-30 K15DS-30	K19AT-30 K15DS-30	1900-030 1980-030
22236	36	Q340A1090	K19AT-36 K15DS-36	K19AT-36 K15DS-36	1900-036 1980-036
22248	48	Q340A1108	K19AT-48 K15DS-48	K19AT-48 K15DS-48	1900-048 1980-048



## Class II Foot Mount Transformers

### Features

- Packard transformers replace models with equal or lower VA rating
- Foot mount
- UL listed class II transformers



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF12416</b>	120	10VA	16	Foot	Wire Lead / Term	UET 10A



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF24200</b>	120	20VA	24	Foot	Wire Lead / Term	Williams Furnace 24200



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF42420</b>	120/208/240	20VA	24	Foot	Wire Lead	Jard 2031F UET 114



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF12440</b>	120	40VA	24	Foot	Wire Lead	Jard 4011F



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF40115</b>	120	40VA	24	Bracket	1/4" QC Term.	Goodman 013M001405



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF113</b>	120	40VA	24	Foot	Wire Lead/Term	90-113 Fan Center Transformer



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF12406</b>	120	40VA	24	Foot	Wire Lead	46-24124-06



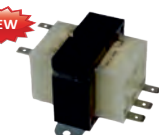
Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF40224</b>	208/240	40VA	24	Foot	Terminals	Goodman 013M00138S



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF22440</b>	208/240	40VA	24	Foot	Wire Lead	Jard 4021F



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF137</b>	208/240	40VA	24	Foot	Wire Lead	First Company E137



Item ID	Primary Voltage	Secondary Rating	Output Option	Mounting Option	Connection	Replaces
<b>Packard</b>						
<b>PF90501</b>	208/240	40VA	24	Foot	1/4" QC Term.	46-101905-01



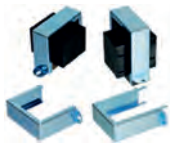
## Class II Foot Mount Transformers

### Features

- Packard transformers replace models with equal or lower VA rating
- Foot mount
- UL listed class II transformers



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF105	120/208/240	40VA	24	Foot	Wire Lead	UET 105	115



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF4031VM	120/208/240	40VA	24	Foot	Wire Lead	Jard 4031VM Rheem 46-24124-06



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF42440	120/208/240	40VA	24	Foot	Wire Lead	Jard 4031F UET 115



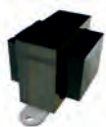
Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF40310EM	120/208/240	40VA	24	Foot	Terminals	Jard 40310EM Rheem 46-101905-01



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF32440	120/208/240	40VA	24/12/2.5	Foot	Wire Lead	Jard 4032F UET 101	118



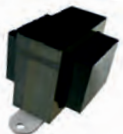
Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF27440	277	40VA	24	Foot	Wire Lead	Jard 40271F



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF12450	120	50VA	24	Foot	Wire Lead	Rheem 46-102856-02



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF85602	120	50VA	24	Foot	Wire Lead	46-102856-02



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PF40350	120/208/240	50VA	24	Foot	Wire Lead	Jard 5031F

### Notes:

115. Dimension between mounting holes is 2.756 inch or 70mm

118. Built-In fuse included

## Class II Multi-Mount Transformers

### Features

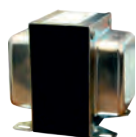
- Packard transformers replace models with equal or lower VA rating
- Foot mount
- UL listed class II transformers



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF42450	120/208/240/480	75VA	24	Foot	Wire Lead	Jard 5041C	117



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF52460	120/208/240	75VA	24	Foot	Wire Lead	Jard 6041C UET 160	117



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF52475F	120/208/240/480	75VA	24	Foot	Wire Lead	Jard 7541M UET 175	118



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF52475	120/208/240/480	75VA	24	Foot	Wire Lead	Jard 7541C UET 179R	117
PF57575	120/208/240/575	75VA	24	Foot	Wire Lead	Mars 50375	117



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
<b>Packard</b>							
PF524100	120/208/240/480	100VA	24	Foot	Wire Lead	Jard 10041C	117

### Notes:

117. Equipped with a circuit breaker

118. Built-In fuse included

## Class II Multi-Mount Transformers

### Features

- Packard transformers replace models with equal or lower VA rating
- Multi-mount transformers
- 4 1/4" x 4 1/4" mounting plate included
- 1/2" conduit hub for electrical knockout mounting
- UL listed class II transformers









Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PM12040	120	40VA	24	Plate	Wire Lead/Term	Universal Replacement



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces
<b>Packard</b>						
PM12440	120	40VA	24	Multi	Wire Lead	Jard 4011M UET 112
PM32440	120/240	40VA	24	Multi	Wire Lead	Jard 4021M UET 113
PM42440	120/208/240	40VA	24	Multi	Wire Lead	Jard 4031M

## Class II Multi-Mount Transformers

	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
	<b>Packard</b> <b>PM43440</b>	120/208/240	40VA	24/12/2.5	Multi	Wire Lead	UET 111	118
	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	
	<b>Packard</b> <b>PM43448</b>	120/208/240	48VA	24/12/2.5	Multi	Wire Lead	Universal Replacement	
	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
	<b>Packard</b> <b>PM44450</b>	120/208/240	50VA	24	Multi	Wire Lead/Term	Jard 5031M UET 150	118
	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	
	<b>Packard</b> <b>PM43450</b>	120/208/240	50VA	24/12/2.5	Multi	Wire Lead	Jard 5032M	
	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	Notes
	<b>Packard</b> <b>PM7541MCB</b>	120/208/240/480	75VA	24	Multi	Wire Lead	Jard 7541MCB	117
	Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Replaces	
	<b>Packard</b> <b>PM10048P</b>	208/240/480	100VA	24/120	Multi	Wire Lead	Jard 10048P	


**Notes:**  
117. Equipped with a circuit breaker

118. Built-In fuse included

## Fan Control Centers

### Features

- UL recognized 40 VA transformer
- Color coded leads
- Low voltage terminal board

	Item ID	Primary Voltage	Primary Connections	Secondary Voltage	Secondary Connections	Relay	Replaces
	<b>Packard</b> <b>FC90112</b>	120	Leads	24	Terminal Board	DPDT	White-Rodgers 90-112
<b>FC90113</b>	120	Leads	24	Terminal Board	SPDT	White-Rodgers 90-113	
<b>FC90118</b>	120	Leads	24	Terminal Board	SPNO/SPNC	White-Rodgers 90-118E	
<b>FC90119</b>	208/240	Leads	24	Terminal Board	SPDT	White-Rodgers 90-119	
<b>FC90130</b>	120/208/240	Leads	24	Terminal Board	DPDT	White-Rodgers 90-130	

## Potential Relays

**Applications:**

- Central air conditioner compressors
- Submersible pump motors
- Motors generally over 1/3 HP with start capacitors

**Features**

- Universal replacements for thousands of GE 3ARR3 model relays and many other OEM's
- Manufactured using the original GE designs and tooling
- Proven performance for 40 years
- Contact rating: 35 amps max, break only
- Endurance up to 500,000 operations depending on load
- Screw type terminals #8-32 thread
- Six (6) quick connect terminals and screws packaged included with each relay
- Instructions included
- UL approved

TITANICE®



Item ID	Mfg. #	Industry #	Continuous coil voltage	Pick up MIN	Pick Up Max	Drop-Out Max
<b>Packard</b>						
TR63	3ARR363223PR	19002	170V	136V	156V	58V
TR64	3ARR364252PR	19003	395V	257V	278V	123V
TR65	3ARR36533PR	19004	332V	165V	185V	93V
TR66	3ARR366252PR	19005	395V	210V	230V	123V
TR67	3ARR367262PR	19006	420V	292V	318V	130V
TR68	3ARR36843PR	19007	500V	322V	348V	138V
TR69	3ARR369243PR	19008	336V	177V	198V	108V
TR70	3ARR37053PR	19009	253V	282V	308V	80V
TR71	3ARR37163PR	19010	420V	209V	235V	124V

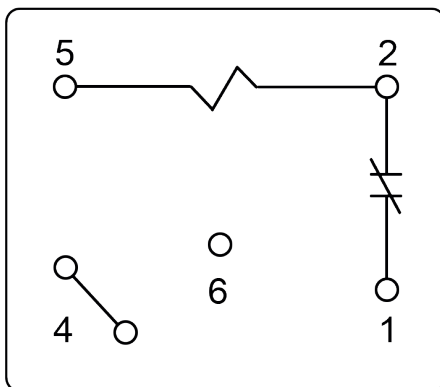


Item ID	Mfg. #	Industry #	Continuous coil voltage	Pick up MIN	Pick Up Max	Drop-Out Max
<b>Packard</b>						
TR550	3ARR355071PR	19550	130V	111V	134V	42V
TR551	3ARR355132PR	19551	332V	243V	271V	91V

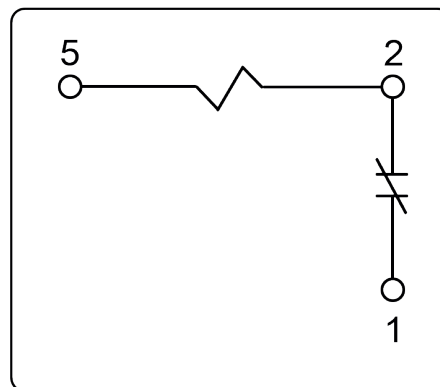


Item ID	Description
<b>Packard</b>	
TRQC6	Package of six (6) double quick connect terminals with screws

**Internal Wiring Diagrams**




TR63  
TR64  
TR65  
TR66  
TR67  
TR68  
TR69  
TR70  
TR71



TR550  
TR551

## Universal Motor Starting Relay

ICM Controls	Features and Applications	Specifications	Replaces
	<p><b>UMSR-50</b></p> <ul style="list-style-type: none"> <li>• Replacement for all standard potential relays</li> <li>• Patented differential voltage sensing</li> <li>• No user-adjustments required</li> <li>• Non-positional mounting configuration</li> <li>• 50A switching capabilities</li> <li>• Universal mounting bracket for easy installation</li> <li>• .250" quick connect termination</li> <li>• Safety timer</li> </ul>	<p><b>General:</b></p> <ul style="list-style-type: none"> <li>• Input:                             <ul style="list-style-type: none"> <li>• Voltage Rating: 110-270 VAC, Single Phase</li> <li>• Maximum Voltage Contact Rating: 502 VAC (absolute)</li> </ul> </li> <li>• Motor power rating: Up to 10 HP</li> <li>• Operating Position: Non-positional</li> <li>• Safety Time Out: Approximately 1-second per 100 microfarads</li> <li>• Consumption: 5VA max.</li> <li>• Insulation: Class B (130°C); Conforms to IEC 1000- standards (6kV impulse / 6kV contact)</li> <li>• Life Expectancy (min. operations):                             <ul style="list-style-type: none"> <li>• Mechanical: 1 x 10<sup>6</sup></li> <li>• Electrical: 1x10<sup>6</sup> at 16A 400 VAC 5x10<sup>5</sup> at 35A 400 VAC (break only) 5x10<sup>5</sup> at 50A 400 VAC (break only)</li> </ul> </li> </ul> <p><b>Contacts:</b></p> <ul style="list-style-type: none"> <li>• Contact rating: 50A (break only), 400 VAC cos <math>\theta</math> = 0.7 to 0.8</li> </ul>	<ul style="list-style-type: none"> <li>• All standard potential relays</li> <li>• Supco: APR5, SUPR</li> </ul>

## Potential Relays

**Features**

- Temperature range: 40°F to 130°F
- Class B insulation
- Continuous duty
- UL recognized



Item ID	Continuous Coil Voltage	Pick-Up		Drop Out Max.	DC Res	Coil Data			Class Insulation	Replaces
		Min.	Max.			MA	Nom. VA	Inrush VA		
<b>Packard</b>										
PR9026	395	180	195	100	7147	12.7	5	10	B	90-26, 19008
PR9063	170	140	153	65	1399	29	5	10	B	90-63, 19002
PR9064	395	245	275	140	7147	12.7	5	10	B	90-64, 19003
PR9065	332	171	184	90	5180	15	5	10	B	90-65, 19004
PR9066	395	208	239	130	7147	12.7	5	10	B	90-66, 19005
PR9067	420	300	328	121	10000	12	5	10	B	90-67, 19006
PR9068	495	323	352	135	11950	10	5	10	B	90-68
PR9071	420	223	252	150	10000	12	5	10	B	90-71, 19007
PR9169	332	180	193	105	5600	12	5	10	B	90-69, 19001



## Direct Replacement Relays For ICP And Nordyne

**Features**

- Electric heater relay
- Used with AMF(K,H)xxCxx heaters in ICP and Nordyne air handlers



Item ID	Continuous Coil Voltage	Pick-Up Min.	Pick-Up Max.	Drop Out Max.	Coil	Replaces
<b>Packard</b>						
PR1922	28.6	16.5	22	2.2	DC	ICP 111001922 ICP 1084529



Item ID	Continuous Coil Voltage	Pick-Up Min.	Pick-Up Max.	Drop Out Max.	Coil	Replaces
<b>Packard</b>						
PR1931	31.2	18	24	7.2	AC	Nordyne 621931

## Time Delay Relays

**Application**

- Prevents short cycling of air conditioning, refrigeration and heat pump compressors

**Features**

- Universal voltage
- Mounts in any position
- UL recognized
- Adjustable up to 10 minutes
- Easy two-wire installation
- Delay on make / delay on break



Delay on Make

Item ID	Conn.	Time Delay	Input Line Frequency	Input Line Voltage	Output Ratings Inrush	Output Ratings Max.	Output Ratings Min.	Replaces
<b>Packard</b>								
PTD102	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/ VDC	15 amps	1.5 amps	40 mA	Carrier P284-2391 Gemline IC213 Gemline IC310 ICM 102B ICM 102FB ICP 1160706 Lennox 24C4101 Lennox 47A7301 McQuay 282101B14 McQuay 282101B2 McQuay 282101B3 Rheem 42-22326-01 Rheem 42-41542-01 3310-068 ADM-2



Delay on Break

Item ID	Conn.	Time Delay	Input Line Frequency	Input Line Voltage	Output Ratings Inrush	Output Ratings Max.	Output Ratings Min.	Replaces
<b>Packard</b>								
PTD203	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/ VDC	15 amps	1.5 amps	40 mA	A-1 Components F7035 Carrier P284-2392 ICM 203B ICP 1160708 ICP 1160711 3310-072 Trane TMR107 Trane TMR52 ADB-1

## SPST and SPDT Fan Relays

**Features**

- 1/4" Quick connect terminals
- Used for switching solenoids, fan motors, and other applications.



Item ID	Description	Amps Res.	FLA/LRA at		Coil Voltage	Replaces
			125 Volts	250 Volts		
<b>Packard</b>						
PR290Q	SPST-NO	16	—	8/25	24 VAC	90-290Q
PR291Q	SPST-NO	16	—	8/25	120 VAC	90-291Q
PR292Q	SPST-NO	16	—	8/25	240 VAC	90-292Q
PR293Q	SPDT	16	—	8/25	24 VAC	90-293Q
PR294Q	SPDT	16	—	8/25	120 VAC	90-294Q
PR295Q	SPDT	16	—	8/25	240 VAC	90-295Q
PR360	SPST-NO	18	12/60	8/48	24 VAC	90-360
PR362	SPST-NO	18	12/60	8/48	120 VAC	90-362
PR370	SPDT	18	12/60	8/48	24 VAC	90-370
PR372	SPDT	18	12/60	8/48	120 VAC	90-372
PR374	SPDT	18	12/60	8/48	240 VAC	90-374
PR380	SPST NO + NC	18	12/60	8/48	24 VAC	90-380
PR382	SPST NO + NC	18	12/60	8/48	120 VAC	90-382
PR384	SPST NO + NC	18	12/60	8/48	240 VAC	90-384

## Switching Relays

**Features**

- Used on heat pumps, vending machines, fans, and heating and air conditioning



Item ID	Coil Voltage	Description	Terminal 1-2-3	Terminal 4-5-6	Replaces
<b>Packard</b>					
PR340	24	DPDT	Power	Power	90-340
PR341	110/120	DPDT	Power	Power	90-341
PR342	208/240	DPDT	Power	Power	90-342
PR343	24	SPDT	Power	Pilot	90-343
PR344	110/120	SPDT	Power	Pilot	90-344
PR345	208/240	SPDT	Power	Pilot	90-345

## Relay Overloads



**Features**

- Replaces relay and overload combinations on 1/8 thru 1/3 HP compressors.

Item ID	Volts	H.P.	Hertz
<b>Packard</b>			
R015	115	1/8-1/5	50/60
R013	115	1/4 and 1/3	50/60

## Automatic Small Flush Mount - SPST - Limit Thermostats



**Features**

- Used in gas fired furnaces, unit heater and rooftop units
- Automatic reset
- Wide temperature range for most heating applications



Item ID	Terminals	Cut In Temp.	Cut Out Temp.	Differential
<b>Packard</b>				
PLF130VA	Vertical 1/4"	115°F	130°F	15°F
PLF155VA	Vertical 1/4"	115°F	155°F	40°F
PLF158VB	Vertical 3/16"	118°F	158°F	40°F
PLF165VA	Vertical 1/4"	125°F	165°F	40°F
PLF170VA	Vertical 1/4"	130°F	170°F	40°F
PLF185VB	Vertical 3/16"	145°F	185°F	40°F
PLF190HA	Horizontal 1/4"	150°F	190°F	40°F
PLF194HB	Horizontal 3/16"	154°F	194°F	40°F
PLF200HA	Horizontal 1/4"	160°F	200°F	40°F
PLF200VA	Vertical 1/4"	160°F	200°F	40°F
PLF210HA	Horizontal 1/4"	170°F	210°F	40°F
PLF222VA	Vertical 1/4"	182°F	222°F	40°F
PLF230HA	Horizontal 1/4"	190°F	230°F	40°F
PLF230HB	Horizontal 3/16"	190°F	230°F	40°F
PLF250HA	Horizontal 1/4"	200°F	250°F	50°F
PLF252VB	Vertical 3/16"	202°F	252°F	50°F
PLF255VA	Vertical 1/4"	205°F	255°F	50°F
PLF260HA	Horizontal 1/4"	210°F	260°F	50°F
PLF275HB	Horizontal 3/16"	225°F	275°F	50°F
PLF275VB	Vertical 3/16"	225°F	275°F	50°F
PLF280HB	Horizontal 3/16"	230°F	280°F	50°F
PLF300HB	Horizontal 3/16"	250°F	300°F	50°F
PLF300VA	Vertical 1/4"	250°F	300°F	50°F
PLF330VA	Vertical 1/4"	280°F	330°F	50°F

## Manual - SPST - Limit Thermostats



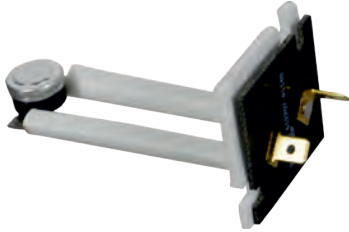
**Features**

- Used in gas fired furnaces, unit heater and rooftop units
- Manual reset
- Wide temperature range for most heating applications



Item ID	Terminals	Switch Action	Switch Type	Cut In Temp.	Cut Out Temp.	Amps	Volts	Hertz	Replaces
<b>Packard</b>									
PRL130	Vertical 1/4"	Open On Rise	SPST	Manual Reset	130°F	16.0	250	50/60	Rheem 47-22453-01
PRL135	Vertical 1/4"	Open On Rise	SPST	Manual Reset	135°F	16.0	250	50/60	Rheem 47-22453-02
PRL220	Vertical 1/4"	Open On Rise	SPST	Manual Reset	220°F	16.0	250	50/60	Nordyne 626354
PRL230	Vertical 1/4"	Open On Rise	SPST	Manual Reset	230°F	16.0	250	50/60	Nordyne 626353
PRL240	Vertical 1/4"	Open On Rise	SPST	Manual Reset	240°F	16.0	250	50/60	Nordyne 626355
PRL250	Vertical 1/4"	Open On Rise	SPST	Manual Reset	250°F	16.0	250	50/60	Nordyne 626352
PRL260	Vertical 1/4"	Open On Rise	SPST	Manual Reset	260°F	16.0	250	50/60	Nordyne 626350
PRL300	Vertical 1/4"	Open On Rise	SPST	Manual Reset	300°F	16.0	250	50/60	Heil 1005549 York 026-34027-000
PRL350	Vertical 1/4"	Open On Rise	SPST	Manual Reset	350°F	16.0	250	50/60	Rheem 47-22861-01 Goodman B1370154

## Plenum Thermostats



### Features

- Opens when furnace plenum area temperature is too high
- Shuts furnace down until the temperature returns to normal

Item ID	Close Temp. °F	Open Temp. °F	Thermodisc	Carrier	Bryant	Goodman	Rheem	Trane	York
<b>Packard</b>									
PHL501	130	170	L170-40 SPST	P331-2203	HH12ZA174A HH127A176A		47-21711-06		025-29041-007
PHL502	150	180	L180-30 SPST		HH12ZA178A	B1370001			
PHL503	150	190	L190-40 SPST	P331-2205	HH12ZA189 HH12ZB190 HH12ZA193A		47-21711-03		025-29041-012
PHL504	200	240	L240-40 SPST	P331-2217	HH12ZA240 HH12ZA252A				
PHL505	100	140	L140-40 SPST		HH12ZB140				
PHL506	130	170	L170-40 SPST		HH12ZB170			SWT1258	
PHL507	110	140	L140-30 SPST		HH12ZA140				025-29041-005
PHL508	170	190	L150-20 SPST	P331-2005	HH12ZB190 HH12ZA193 HH12ZA189	B1370913		SWT1260	
PHL509	210	240	L240-30 SPST	P331-2217	HH12ZB240 HH12ZA252 HH12ZA240	B1370903			
PHL510	130	150	L150-20 SPST		HH12ZB150				
PHL511	140	160	L160-20 SPST		HH12ZB160				025-29041-004
PHL512	150	170	L170-20 SPST		HH12ZB170				
PHL513	130	170	L170-40 SPST						
PHL514	104	180	L180-40 SPST		HH12ZB180				025-29031-711
PHL515	160	200	L200-40 SPST		HH12ZB200 HH12ZA199 HH12ZA201				025-29041-006
PHL516	170	210	L210-40 SPST		HH12ZB210			SWT1263	
PHL517	180	220	L220-50 SPST	48NHT042	HH12ZB220 HH12ZA219 HH12ZA223			SWT1273	
PHL518	210	250	L250-40 SPST	P331-2208	HH12ZB250 HH12ZA251	B13700125		SWT1261 SWT1272	
PHL519	125	155	L155-30 SPST			B1370006			

## Adjustable Thermostats

### Applications

- Covers approximately 95% of the hundreds of different temperature ranges and styles used on dryers and heating applications

### Features

- Dial knob
- 1/4" quick connect terminals
- UL recognized



Item ID	Switch Action	Switch Type	Temp. Range	Differential	Volts	Amps	Hertz	Replaces
<b>Packard Limit Controls</b>								
PT012	Open On Rise	SPST	135°F to 175°F	40°F	250	25	50/60	AT012 39220 3L05-1
PT013	Open On Rise	SPST	175°F to 215°F	40°F	250	25	50/60	AT013 39225 3L05-2
PT014	Open On Rise	SPST	210°F to 250°F	40°F	250	25	50/60	AT014 39230 3L05-4
PT015	Open On Rise	SPST	250°F to 290°F	40°F	250	25	50/60	AT015 39235 3L05-13
<b>Packard Fan Controls</b>								
PT021	Close On Rise	SPST	90°F to 130°F	20°F	250	25	50/60	AT021 39205 3F05-1
PT022	Close On Rise	SPST	140°F to 180°F	20°F	250	25	50/60	AT022 39210 3F05-2



## Heat Sequencers

### Features

- Contact ratings: up to 25 Amps at 120 or 240 Volts and 12.5 Amps at 480 Volts
- Full-load rated auxiliary contacts
- Standard operating ambient between -50°F (-45.5°C) and 165°F (73.8°C)
- Shock and vibration resistant
- Solid state
- Quick-connect terminals
- Mounts in any position
- UL recognized



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A341	1	1	1-20						40-110					SPST



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A342	1	1			30-90						1-30			SPST



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A343	1	2	1-20	1-20					40-110	40-110				DPDT



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A344	1	2			30-90	30-90					1-30	1-30		DPDT



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A345	2	3	1-110	1-110	1-110				1-110	1-110	1-110			DPDT-SPST



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A346	2	4	1-110	1-110	1-110	1-110			1-110	1-110	1-110	1-110		2-DPDT



Item ID	Timings	Switches	Timings - On						Timings - Off					Type
			M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
<b>Packard</b> HS24A3414	4	5	1-160	1-160	1-160	1-160	1-160	1-160	1-160	1-160	1-160	1-160	1-160	2DPDT-SPST

Item ID	HS24A341	HS24A342	HS24A343	HS24A344	HS24A345	HS24A346	HS24A3414
<b>Replaces</b>							
<b>Gemline</b>	GS101	GS102	GS103	GS104	GS105	GS106	GS107
<b>Klixon</b>	60000AOM	A012	E017	51172-22	51172-32	51172-33	51172-131-5
<b>White-Rodgers</b>	24A34-1	24A34-2	24A34-3	24A34-4	24A34-5	24A34-6	24A34-14

## Direct Replacement For Goodman



Item ID	Type	Control Voltage	Delay On (Seconds)	Delay Off (Seconds)	Replaces
<b>Packard</b> HS33247	SPDT 1 & 3 N.O.	24	1-24	15-75	Goodman B1370738 Klixon COM-21





## PERFORMANCE MATTERS

WHEN THE FUN IS OVER, THEY NEED  
A COOL HOUSE TO GO BACK INTO.

ARM YOUR TECHNICIANS WITH PARTS THAT PERFORM.

Supply your technicians with only the best components  
to get the job done the right way the first time.

The Titan brand family of contactors, relays and capacitors  
are manufactured from the highest quality materials, and  
backed by designs that are tried and tested to perform.

a solution from

**Packard**



## TITAN HD® Oval Motor Run Capacitors

### Features

- Manufactured to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA



Longevity you can count on;  
craftsmanship to be proud of.

### Single Section - Oval

Item ID	MFD	Can Size
<b>Titan HD 370 Volt</b>		
POC2A	2	1
POC3A	3	1
POC4A	4	1
POC5A	5	1
POC6A	6	1
POC7.5A	7.5	1
POC10A	10	2
POC12.5A	12.5	2
POC15A	15	3
POC17.5A	17.5	3
POC20A	20	3
POC25A	25	3
POC30A	30	3
POC35A	35	3
POC40A	40	3
POC45A	45	3
POC50A	50	13
POC55A	55	13
POC60A	60	13
POC70A	70	13
POC80A	80	13
<b>Titan HD 440/370 Volt</b>		
POCF2A	2	1
POCF2.5A	2.5	1
POCF3A	3	1
POCF4A	4	1
POCF5A	5	1
POCF6A	6	1
POCF7.5A	7.5	2
POCF10A	10	3
POCF12.5A	12.5	3
POCF15A	15	3
POCF17.5A	17.5	3
POCF20A	20	3
POCF25B	25	3
POCF30A	30	4
POCF35A	35	4
POCF40A	40	13
POCF45A	45	13
POCF50A	50	13
POCF55A	55	13
POCF60A	60	14
POCF70A	70	14
POCF80A	80	14

### Dual Section - Oval

Item ID	MFD	Can Size
<b>Titan HD 370 Volt</b>		
POCD55A	5+5	5
POCD1010A	10+10	5
POCD153A	15+3	12
POCD154A	15+4	12
POCD155A	15+5	12
POCD1510A	15+10	12
POCD1755A	17.5+5	12
POCD203A	20+3	5
POCD204A	20+4	12
POCD205A	20+5	12
POCD2010A	20+10	12
POCD2015A	20+15	8
POCD253A	25+3	12
POCD254A	25+4	6
POCD255A	25+5	12
POCD2575A	25+7.5	12
POCD258A	25+8	8
POCD2510A	25+10	12
POCD2515A	25+15	8
POCD303A	30+3	13
POCD305A	30+5	13
POCD3075A	30+7.5	8
POCD3010A	30+10	13
POCD353A	35+3	13
POCD354A	35+4	13
POCD355A	35+5	13
POCD3575A	35+7.5	13
POCD3510A	35+10	13
POCD403A	40+3	13
POCD404A	40+4	9
POCD405A	40+5	13
POCD4075A	40+7.5	13
POCD4010A	40+10	13
POCD455A	45+5	13
POCD4575A	45+7.5	13
POCD4510A	45+10	13
POCD4515A	45+15	13
POCD505A	50+5	13
POCD555A	55+5	14
POCD5575A	55+7.5	14
POCD605A	60+5	14
POCD6075A	60+7.5	14
POCD6010A	60+10	14

Can Size	Depth (In.)	Width (In.)	Height (In.)
<b>Can Dimension</b>			
1	1.25	2.00	1.56
2	1.25	2.00	2.19
3	1.25	2.00	2.88
4	1.25	2.00	3.88
5	1.75	2.75	2.38
6	1.75	2.75	2.75
8	1.75	2.75	3.25
9	1.75	2.75	3.75
12	1.75	2.75	2.38
13	1.75	2.75	2.91
14	1.75	2.75	3.91
15	1.75	2.75	4.75
16	1.75	3.54	4.75

### Dual Section - Oval

Item ID	MFD	Can Size
<b>Titan HD 440/370 Volt</b>		
POCFD105A	10+5	5
POCFD154A	15+4	5
POCFD155A	15+5	12
POCFD1510A	15+10	6
POCFD205A	20+5	12
POCFD2015A	20+15	13
POCFD255A	25+5	13
POCFD2575A	25+7.5	13
POCFD2510A	25+10	13
POCFD2515A	25+15	9
POCFD304A	30+4	13
POCFD305A	30+5	13
POCFD3075A	30+7.5	13
POCFD3010A	30+10	13
POCFD353A	35+3	13
POCFD354A	35+4	9
POCFD355A	35+5	13
POCFD3575A	35+7.5	13
POCFD3510A	35+10	10
POCFD403A	40+3	11
POCFD405A	40+5	14
POCFD4075A	40+7.5	14
POCFD4010A	40+10	14
POCFD455A	45+5	14
POCFD4575A	45+7.5	14
POCFD505A	50+5	15
POCFD5075A	50+7.5	15
POCFD555A	55+5	15
POCFD5510A	55+10	15
POCFD605A	60+5	15
POCFD6510A	65+10	15
POCFD805A	80+5	16
POCFD8075A	80+7.5	16

#### Notes:

- Height dimen. does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.





## TITAN HD® Round Motor Run Capacitors



Scan to learn more



Can Dimension	Can Size	Diameter (In.)	Height (In.)
1		1.75	2.38
2		1.75	2.75
3		1.75	2.84
4		1.75	3.84
6		2	2.91
8		2	3.84
10		2	4.75
12		2.5	2.91
15		2.5	3.91
16		2.5	4.25

### Features

- Manufactured to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA

### Dual Section - Round

Item ID	MFD	Can Size
<b>Titan HD 440/370 Volt</b>		
PRCFD205A	20+5	6
PRCFD2015A	20+15	6
PRCFD253A	25+3	6
PRCFD255A	25+5	6
PRCFD2575A	25+7.5	6
PRCFD2510A	25+10	6
PRCFD2515A	25+15	6
PRCFD303A	30+3	6
PRCFD304A	30+4	6
PRCFD305A	30+5	6
PRCFD3075A	30+7.5	6
PRCFD353A	35+3	8
PRCFD354A	35+4	8
PRCFD355A	35+5	8
PRCFD356A	35+6	8
PRCFD3575A	35+7.5	8
PRCFD3510A	35+10	8
PRCFD403A	40+3	8
PRCFD404A	40+4	8
PRCFD405A	40+5	8
PRCFD406A	40+6	8
PRCFD4075A	40+7.5	8
PRCFD4010A	40+10	8
PRCFD453A	45+3	8
PRCFD455A	45+5	8
PRCFD456A	45+6	8
PRCFD4575A	45+7.5	8
PRCFD4510A	45+10	8
PRCFD505A	50+5	8
PRCFD5075A	50+7.5	8
PRCFD555A	55+5	12
PRCFD5575A	55+7.5	12
PRCFD5510A	55+10	12
PRCFD605A	60+5	12
PRCFD6075A	60+7.5	12
PRCFD6010A	60+10	12
PRCFD60125A	60+12.5	17
PRCFD705A	70+5	15
PRCFD7075A	70+7.5	15
PRCFD7010A	70+10	15
PRCFD805A	80+5	15
PRCFD8075A	80+7.5	15
PRCFD8010A	80+10	15

### Single Section - Round

Item ID	MFD	Can Size
<b>Titan HD 370 Volt</b>		
PRC5A	5	1
PRC7.5A	7.5	1
PRC10A	10	1
PRC12.5A	12.5	1
PRC15A	15	1
PRC17.5A	17.5	1
PRC20A	20	1
PRC25A	25	1
PRC30A	30	1
PRC31.5A	31.5	5
PRC35A	35	3
PRC40A	40	3
PRC45A	45	3
PRC50A	50	4
PRC55A	55	4
PRC60A	60	4
PRC70A	70	8
PRC80A	80	8
PRC100A	100	12
<b>Titan HD 440/370 Volt</b>		
PRCF5A	5	1
PRCF7.5A	7.5	1
PRCF10A	10	1
PRCF12.5A	12.5	1
PRCF15A	15	1
PRCF17.5A	17.5	1
PRCF20A	20	1
PRCF25A	25	3
PRCF30A	30	3
PRCF35A	35	4
PRCF40A	40	4
PRCF45A	45	4
PRCF50A	50	8
PRCF55A	55	8
PRCF60A	60	8
PRCF65A	65	10
PRCF70A	70	10
PRCF80A	80	10
PRCF90A	90	15

### Dual Section - Round

Item ID	MFD	Can Size
<b>Titan HD 370 Volt</b>		
PRCD253A	25+3	6
PRCD254A	25+4	6
PRCD255A	25+5	6
PRCD303A	30+3	6
PRCD304A	30+4	6
PRCD305A	30+5	6
PRCD3075A	30+7.5	6
PRCD3010A	30+10	6
PRCD353A	35+3	6
PRCD354A	35+4	6
PRCD355A	35+5	6
PRCD3575A	35+7.5	6
PRCD3510A	35+10	6
PRCD403A	40+3	6
PRCD404A	40+4	6
PRCD405A	40+5	6
PRCD4075A	40+7.5	6
PRCD4010A	40+10	6
PRCD453A	45+3	6
PRCD455A	45+5	6
PRCD4575A	45+7.5	6
PRCD4510A	45+10	6
PRCD503A	50+3	6
PRCD505A	50+5	6
PRCD5075A	50+7.5	6
PRCD5010A	50+10	6
PRCD555A	55+5	8
PRCD5575A	55+7.5	8
PRCD5510A	55+10	8
PRCD605A	60+5	8
PRCD6075A	60+7.5	8
PRCD6010A	60+10	8
PRCD805A	80+5	12
PRCD8075A	80+7.5	12
PRCD8010A	80+10	12
PRCD80125A	80+12.5	16

### Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

# TITAN PRO® Motor Run Capacitors



## TITAN PRO®

At 60,000 hours of operational life, Titan Pro® Professional Grade Motor Run Capacitors get the job done by outperforming standard motor run capacitors of similar value in the toughest conditions.



Scan to learn more

### Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry Nos.	
<b>Titan Pro 440/370 Volt - Single Section</b>						
TOCF2	2	1.24	2.03	2.17	12026	12002
TOCF2.5	2.5	1.24	2.03	2.17	12019	—
TOCF3	3	1.24	2.03	2.17	12027	12003
TOCF4	4	1.24	2.03	2.17	12028	12004
TOCF5	5	1.24	2.03	2.17	12029	12005
TOCF6	6	1.24	2.03	2.56	12030	12006
TOCF7.5	7.5	1.24	2.03	2.17	12031	12007
TOCF10	10	1.24	2.03	2.56	12032	12008
TOCF12.5	12.5	1.24	2.03	2.95	12033	12009
TOCF15	15	1.24	2.03	2.95	12034	12010
TOCF17.5	17.5	1.24	2.03	3.74	12036	12012
TOCF20	20	1.77	2.80	2.68	12037	12014
TOCF25	25	1.77	2.80	3.07	12040	12015
TOCF30	30	1.77	2.80	3.46	12041	12017
TOCF35	35	1.77	2.80	3.86	12043	12018
TOCF40	40	1.77	2.80	4.06	12045	12021
TOCF45	45	1.77	2.80	4.45	12048	12023
TOCF50	50	1.77	2.80	4.84	12049	12025
TOCF55	55	1.77	2.80	5.04	12050	12024
TOCF60	60	1.87	3.54	3.78	12051	12087
TOCF65	65	1.87	3.54	3.98	—	—
<b>Titan Pro 480 Volt - Single Section</b>						
TOCF25A	25	1.77	2.80	3.66	—	—
<b>Titan Pro 440/370 Volt - Dual Section</b>						
TOCFD154	15+4	1.77	2.68	2.36	12270	12056
TOCFD155	15+5	1.77	2.68	2.68	12271	12057
TOCFD2015	20+15	1.77	2.80	3.86	12083	12164
TOCFD255	25+5	1.77	2.80	3.46	12184	12066
TOCFD2575	25+7.5	1.77	2.80	3.46	12182	12143
TOCFD2510	25+10	1.77	2.80	3.86	12183	12167
TOCFD304	30+4	1.77	2.80	3.86	12181	12145
TOCFD305	30+5	1.77	2.80	3.86	12187	12069
TOCFD3075	30+7.5	1.77	2.80	3.86	12038	12146
TOCFD353	35+3	1.77	2.80	4.25	12085	12148
TOCFD354	35+4	1.77	2.80	4.25	12179	12071
TOCFD355	35+5	1.77	2.80	4.25	12185	12072
TOCFD3575	35+7.5	1.77	2.80	4.25	12188	12149
TOCFD405	40+5	1.77	2.80	4.65	12086	12171
TOCFD4075	40+7.5	1.87	3.54	3.78	12189	12152
TOCFD455	45+5	1.77	2.80	5.04	12190	12174
TOCFD505	50+5	1.87	3.54	4.37	12108	12138
TOCFD555	55+5	1.87	3.54	4.57	12275	12154
TOCFD5510	55+10	1.87	3.54	5.16	12276	—
TOCFD605	60+5	1.87	3.54	5.55	12109	12139

## 440/370 volt

Reduce your inventory costs with a Dual Voltage capacitor

### Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry Nos.	
<b>Titan Pro 440/370 Volt - Single Section</b>					
TRCF3	3	1.77	2.17	12103	12803
TRCF5	5	1.77	2.17	12105	12095
TRCF7.5	7.5	1.77	2.17	12107	12097
TRCF10	10	1.77	2.17	12232	12098
TRCF12.5	12.5	1.77	2.17	12233	12099
TRCF15	15	1.77	2.56	12234	12210
TRCF17.5	17.5	1.77	2.76	12236	12212
TRCF20	20	1.77	2.95	12237	12214
TRCF25	25	1.97	2.95	12240	12215
TRCF30	30	1.97	3.35	12241	12217
TRCF35	35	1.97	3.54	12243	12218
TRCF40	40	1.97	3.94	12245	12221
TRCF45	45	1.97	4.33	12248	12223
TRCF50	50	1.97	4.72	12251	12225
TRCF55	55	1.97	4.92	12252	12226
TRCF60	60	2.17	4.53	12254	12227
TRCF70	70	2.17	4.92	12258	12229
TRCF80	80	2.50	4.72	12259	12199
TRCF100	100	2.50	5.31	—	—
<b>Titan Pro 440/370 Volt - Dual Section</b>					
TRCFD205	20+5	1.97	3.74	12115	12260
TRCFD2015	20+15	1.97	3.94	12112	12209
TRCFD255	25+5	1.97	3.54	12278	12261
TRCFD2575	25+7.5	1.97	3.74	12279	12262
TRCFD2515	25+15	1.97	4.33	12114	—
TRCFD303	30+3	1.97	4.33	12126	12244
TRCFD305	30+5	1.97	3.94	12281	12264
TRCFD3075	30+7.5	1.97	4.13	12282	12224
TRCFD353	35+3	2.50	3.74	12077	12082
TRCFD354	35+4	1.97	4.53	12070	12231
TRCFD355	35+5	1.97	4.13	12283	12266
TRCFD3575	35+7.5	2.36	3.54	12284	12235
TRCFD403	40+3	2.50	3.74	12078	12074
TRCFD405	40+5	2.36	3.54	12286	12178
TRCFD4075	40+7.5	2.50	3.74	12287	12268
TRCFD453	45+3	2.50	3.74	12079	12073
TRCFD455	45+5	2.50	3.74	12288	12269
TRCFD4575	45+7.5	2.50	3.74	12289	12249
TRCFD505	50+5	2.50	3.94	12290	12191
TRCFD5075	50+7.5	2.50	3.94	12291	12192
TRCFD555	55+5	2.50	4.13	12292	12193
TRCFD5575	55+7.5	2.36	4.33	12293	12194
TRCFD603	60+3	2.50	4.33	12160	—
TRCFD605	60+5	2.36	4.33	12294	12195
TRCFD6075	60+7.5	2.36	4.53	12295	12196
TRCFD6010	60+10	2.50	4.53	12296	12265
TRCFD705	70+5	2.50	4.92	12255	12053
TRCFD7075	70+7.5	2.50	4.92	12166	12054
TRCFD805	80+5	2.50	5.31	12257	12197
TRCFD8075	80+7.5	2.50	5.12	12216	12198
TRCFD8010	80+10	2.50	5.31	12117	12201

Notes:  
 • Height dimension does not include terminals. Add 1/2" for terminals.  
 • Please call when dimensions are critical.

# TITAN Pro 370<sup>®</sup> Motor Run Capacitors

## TITAN PRO 370<sup>®</sup>

### PRO - series: Features & Benefits

- RELIABLE.** Tested to 60,000 hours
- COMPLIANT.** Built to EIA-456A industry standard for endurance
- CERTIFIED.** Meets UL 810 safety standards
- TESTED.** 100% electrical testing
- ROBUST.** Heat tolerant, high-grade metallized polypropylene film and proprietary Epoxidized Soybean Oil (ESO)



370 volt offers  
best value in class



Capacitor Accessories  
See pages 271-273



#### Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry No
<b>Titan Pro 370 Volt - Single Section</b>				
TRC5	5	1.77	2.17	12995
TRC7.5	7.5	1.77	2.17	12997
TRC10	10	1.77	2.17	12998
TRC12.5	12.5	1.77	2.76	12999
TRC15	15	1.77	2.76	12710
TRC17.5	17.5	1.77	2.36	12712
TRC20	20	1.77	2.95	12714
TRC25	25	1.77	2.95	12715
TRC30	30	1.97	2.76	12717
TRC35	35	1.97	2.95	12718
TRC40	40	1.97	3.35	12721
TRC45	45	1.97	3.54	12723
TRC50	50	1.97	3.74	12725
TRC55	55	1.97	3.94	12726
TRC60	60	1.97	4.33	12727
TRC65	65	1.97	4.33	12128
TRC70	70	2.50	3.74	12729
TRC80	80	1.97	5.31	12899
TRC100	100	2.50	4.33	—

#### Titan Pro 370 Volt - Dual Section

TRCD1010	10+10	1.97	2.56	—
TRCD154	15+4	1.97	2.95	12702
TRCD155	15+5	1.97	2.95	12703
TRCD205	20+5	1.97	3.35	12760
TRCD253	25+3	1.97	2.95	12711
TRCD254	25+4	1.97	2.95	12875
TRCD255	25+5	1.97	3.35	12761
TRCD303	30+3	1.97	3.54	12720
TRCD304	30+4	1.97	3.15	12763
TRCD305	30+5	1.97	3.54	12764
TRCD3075	30+7.5	1.97	3.94	12724
TRCD353	35+3	1.97	3.94	12730
TRCD355	35+5	1.97	3.94	12766
TRCD3575	35+7.5	1.97	4.33	12735
TRCD403	40+3	1.97	4.13	12739
TRCD405	40+5	1.97	4.13	12878
TRCD4075	40+7.5	1.97	4.53	12768
TRCD455	45+5	1.97	3.94	12769
TRCD4575	45+7.5	1.97	4.33	12749
TRCD505	50+5	1.97	4.72	12755
TRCD5075	50+7.5	1.97	4.92	—
TRCD5010	50+10	1.97	4.53	12757
TRCD555	55+5	2.50	3.74	12893
TRCD5575	55+7.5	2.50	3.74	12894
TRCD605	60+5	2.50	4.13	12895
TRCD6075	60+7.5	2.50	4.13	12896
TRCD705	70+5	2.50	4.33	—
TRCD7075	70+7.5	2.50	4.33	—
NEW TRCD7010	70+10	2.50	4.72	12055
TRCD805	80+5	2.50	4.72	12897
TRCD8075	80+7.5	2.50	4.72	—
TRCD8010	80+10	2.50	4.92	—

#### Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry No
<b>Titan Pro 370 Volt - Single Section</b>					
TOC2	2	1.24	2.03	2.17	12902
TOC3	3	1.24	2.03	2.17	12903
TOC4	4	1.24	2.03	2.17	12904
TOC5	5	1.24	2.03	2.17	12905
TOC5B*	5	1.24	2.03	2.17	12905
TOC6	6	1.24	2.03	2.17	12906
TOC7.5	7.5	1.24	2.03	2.17	12907
TOC7.5B*	7.5	1.24	2.03	2.17	12907
TOC10	10	1.24	2.03	2.56	12908
TOC10B*	10	1.24	2.03	2.56	12908
TOC12.5	12.5	1.24	2.03	2.95	12909
TOC15	15	1.24	2.03	2.95	12910
TOC17.5	17.5	1.24	2.03	3.35	12912
TOC20	20	1.77	2.80	2.68	12914
TOC25	25	1.77	2.80	2.68	12915
TOC30	30	1.77	2.80	2.87	12917
TOC35	35	1.77	2.80	3.27	12918
TOC40	40	1.77	2.80	3.46	12921
TOC45	45	1.77	2.80	3.66	12923
TOC50	50	1.77	2.80	3.86	12925
TOC55	55	1.87	3.54	2.99	12924
TOC60	60	1.77	2.80	4.45	12987
TOC70	70	1.87	3.54	3.39	12989
TOC80	80	1.87	3.54	3.78	12990
<b>Titan Pro 370 Volt - Dual Section</b>					
TOCD55	5+5	1.77	2.80	2.09	—
TOCD1010	10+10	1.77	2.80	2.87	—
TOCD153	15+3	1.77	2.80	2.87	12841
TOCD155	15+5	1.77	2.80	2.68	12957
TOCD255	25+5	1.77	2.80	3.07	12966
TOCD305	30+5	1.77	2.80	3.27	12969
TOCD353	35+3	1.77	2.80	3.46	12848
TOCD355	35+5	1.77	2.80	3.46	12972
TOCD405	40+5	1.77	2.80	9.86	12871
TOCD455	45+5	1.77	2.80	4.25	12874

- Notes:
- Height dimension does not include terminals. Add 1/2" for terminals.
  - Please call when dimensions are critical.
  - \* Bulk - in multiples of 100



## Packard Start Capacitors

Item ID	MFD	Case Size	Industry No.
<b>Packard 110-125 VAC</b>			
PMJ21	21-25	1	11002
PMJ25	25-30	1	11003
PMJ30	30-36	1	11004
PMJ36	36-43	1	11005
PMJ43	43-53	1	11006
PMJ47	47-56	1	
PMJ56	56-75	1	11007
PMJ64	64-77	1	
PMJ72	72-88	1	11008
PMJ88	88-108	1	11009
PMJ108	108-130	1	11010
PMJ124	124-149	1	11112
PMJ130	130-156	1	11112
PMJ145	145-174	1	11013
PMJ161	161-193	1	11014
PMJ189	189-227	1	11015
PMJ200	200-240	1	11016
PMJ216	216-259	1	11017
PMJ216A	216-259	2	11017
PMJ233	233-280	1	10018
PMJ233A	233-280	2	10018
PMJ243	243-292	1	
PMJ243A	243-292	2	
PMJ270	270-324	1	11019
PMJ270A	270-324	2	11019
PMJ295	295-354	1	
PMJ300	300-360	3	11020
PMJ324	324-388	1	11021
PMJ324A	324-388	4	11021
PMJ324B	324-388	2	11021
PMJ340	340-408	2	11022
PMJ340A	340-408	4	11022
PMJ378	378-455	2	11023
PMJ378A	378-455	4	11023
PMJ400	400-480	2	11024
PMJ400A	400-480	4	11024
PMJ430	430-516	2	
PMJ430A	430-516	4	
PMJ430B	430-516	6	
PMJ460	460-552	2	11025
PMJ460A	460-552	4	11025
PMJ460B	460-552	5	11025
PMJ540	540-648	5	11026
PMJ540A	540-648	4	11026
PMJ590	590-708	5	11027
PMJ590A	590-708	4	11027
PMJ645	645-774	5	
PMJ708	708-850	5	11028
PMJ708A	708-850	7	11028
PMJ708B	708-850	4	11028
PMJ800	800-960	4	
PMJ815	815-978	5	
PMJ829	829-995	5	11029
PMJ829A	829-995	7	11029
PMJ850	850-1020	7	
PMJ860	860-1032	4	
PMJ1000	1000-1200	7	11030
PMJ1290	1290-1548	7	

Notes:  
 • Please call when dimensions are critical.  
 • \* Shipped with resistor mounted on capacitor.

Case Size	Diameter (In.)	Height (In.)
<b>Case Dimension</b>		
1	1 7/16	2 3/4
2	1 7/16	3 3/8
3	1 7/16	4 3/8
4	1 13/16	3 3/8
5	1 13/16	4 3/8
6	2 1/16	3 3/8
7	2 1/16	4 3/8
8	2 9/16	4 3/8

Item ID	MFD	Case Size	Industry No.
<b>Packard 165 VAC</b>			
PSMJ72	72-88	1	
PSMJ88	88-108	1	
PSMJ108	108-130	1	
PSMJ124	124-149	1	11031
PSMJ130	130-156	2	
PSMJ145	145-174	2	11032
PSMJ161	161-193	2	11033
PSMJ189	189-227	2	11034
PSMJ216	216-259	4	
PSMJ233	233-280	4	11035
PSMJ243	243-292	4	
<b>NEW</b> PSMJ243R*	243-292	4	
PSMJ270	270-324	4	11036
PSMJ340	340-408	4	
PSMJ378A	378-455	5	
PSMJ400	400-480	4	11037
PSMJ540	540-648	4	
PSMJ710	710-850	6	
PSMJ710A	710-850	7	
PSMJ810A	810-972	7	

Item ID	MFD	Case Size	Industry No.
<b>Packard 330 VAC</b>			
PRMJ21	21-25	2	11055
PRMJ25	25-30	2	11056
PRMJ30	30-36	2	11057
PRMJ36	36-43	2	11058
PRMJ43	43-53	4	11059
PRMJ47	47-56	4	
PRMJ56	53-64	4	11060
PRMJ64	64-77	4	
PRMJ72	72-88	4	11061
PRMJ72A	72-88	6	11061
<b>NEW</b> PRMJ72R*	72-88	4	
PRMJ88	88-108	6	11062
PRMJ108	108-130	7	11063
PRMJ108A	108-130	6	11063
PRMJ108R	108-130	4	
PRMJ124	124-149	7	11165
PRMJ130	130-158	7	11064
PRMJ135	135-162	7	
PRMJ145	145-174	7	11066
PRMJ145A	145-174	8	11066
PRMJ145R*	145-174	7	11066
PRMJ161	161-193	7	10067
PRMJ189	189-227	7	11068
PRMJ189A	189-227	8	11068
PRMJ216	216-259	8	11069
PRMJ216A	216-259	7	11069
PRMJ243	243-292	6	
PRMJ270	270-324	8	11070
PRMJ270R*	270-324	8	11070
PRMJ300	300-360	8	



### Features

- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits.
- Cases are made of moisture and oil resistant molded phenolic resin or plastic.
- Standard dual blade terminals.
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

Item ID	MFD	Case Size	Industry No.
<b>Packard 220-250 VAC</b>			
PTMJ21	21-25	1	11038
PTMJ25	25-30	1	11039
PTMJ30	30-36	1	11040
PTMJ36	36-43	1	11041
PTMJ43	43-53	1	11042
PTMJ43A	43-53	2	11042
PTMJ47	47-56	1	
PTMJ53	53-64	2	
PTMJ56	56-64	1	11043
PTMJ56A	56-72	1	11043
PTMJ59	59-71	6	
PTMJ64	64-77	1	
PTMJ64A	64-77	2	
PTMJ72	72-88	4	11044
PTMJ86	86-108	6	
PTMJ88	88-108	4	11045
PTMJ105	105-126	6	
PTMJ108	108-130	4	11046
PTMJ124	124-149	5	11148
PTMJ124A	124-149	4	11148
PTMJ130	130-158	4	
PTMJ130A	130-158	5	
PTMJ145	145-174	4	11049
PTMJ145A	145-174	6	11049
PTMJ161	161-193	6	11050
PTMJ161A	161-193	5	11050
PTMJ189	189-227	6	11051
PTMJ189A	189-227	7	11051
PTMJ216	216-259	6	11052
PTMJ216A	216-259	7	11052
PTMJ233	233-280	6	11053
PTMJ233A	233-280	7	10053
PTMJ243	243-292	6	
PTMJ270	270-324	6	11054
PTMJ270A	270-324	7	11054
PTMJ280	280-336	7	
PTMJ284	284-333	8	
PTMJ320	320-384	7	
PTMJ340	340-408	7	
PTMJ378	378-455	8	
PTMJ400	400-480	7	
PTMJ400A	400-480	8	
PTMJ430	430-516	8	
PTMJ630	630-750	8	

## Packard Start Capacitors With Resistors



### Features

- Most popular Start capacitor with resistors to use in Compressor applications.
- Includes 15,000 OHM resistor.
- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits.
- Cases are made of moisture and oil resistant molded phenolic resin or plastic.
- Standard dual blade terminals.
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

Item ID	MFD	Voltage	Case Size
<b>Packard</b>			
<b>NEW</b> PSMJ243R	243-292	165	4
PSMJ270R	270-324	165	4
PTMJ88R	88-108	220-250	4
PTMJ145R	145-174	220-250	4
PTMJ161R	161-193	220-250	6
PTMJ189R	189-227	220-250	6
<b>NEW</b> PTMJ460R	460-552	220-250	7
PRMJ88R	88-108	330	6
PRMJ216R	216-259	330	8
PRMJ72R	72-88	330	4
<b>NEW</b> PRMJ270R	270-324	330	8

## Packard Dry AC Motor Run Capacitors



### Features

- Commonly used on motors in fans, pumps and blowers
- Constructed with Self-Healing Dielectric Metalized Polypropylene Film
- 1/4 inch blade quick connect terminals; Metal tab mounting bracket
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/-5%
- Protected 10,000 AFC
- Available in 370 and 440 Volt
- 50/60 Hertz
- Plastic ABS case
- UL recognized
- RoHS compliant

Item ID	MFD	VAC	Hertz	Shape	Height (In.)	Length (In.)	Width (In.)	Weight (Lbs)	Terminals	Temp. Range (C)	Construction	For Use With
<b>Packard</b>												
PDC2	2	370	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC3	3	370	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC4	4	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC5	5	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC7.5	7.5	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC8	8	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC10	10	370	50/60	Rectangle	2.44	1.25	2.36	0.10	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC12.5	12.5	370	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC15	15	370	50/60	Rectangle	2.44	1.25	2.36	0.13	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF2	2	440	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF3	3	440	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF4	4	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF5	5	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF7.5	7.5	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF8	8	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF10	10	440	50/60	Rectangle	2.44	1.25	2.36	0.11	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF12.5	12.5	440	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF15	15	440	50/60	Rectangle	2.44	1.25	2.36	0.14	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors

## Packard Mini-Split Dry Cell Capacitors

### Features

- Specifically designed for Mini-Splits and other equipment with confined space
- Constructed with Self-Healing Dielectric Metallized Polypropylene Film
- 2 - 1/4 inch QC terminals
- Plastic mounting foot
- Temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/- 5%
- Protected 10,000 AFC
- UL recognized, RoHS compliant



Item ID	MFD	VAC	Hertz	Height (In.)	Length (In.)	Width (In.)	Weight (Lbs.)
<b>Packard</b>							
PMSCF1	1	450	50/60	1.10	1.46	0.55	0.06
PMSCF1.5	1.5	450	50/60	1.10	1.46	0.55	0.06
PMSCF2	2	450	50/60	1.22	1.50	0.75	0.07
PMSCF2.5	2.5	450	50/60	1.22	1.50	0.75	0.07
PMSCF3	3	450	50/60	1.22	1.50	0.75	0.08
PMSCF3.5	3.5	450	50/60	1.34	1.46	0.87	0.10
PMSCF4	4	450	50/60	1.34	1.46	0.87	0.11
PMSCF5	5	450	50/60	1.34	1.85	0.87	0.12
PMSCF6	6	450	50/60	1.34	1.85	0.87	0.13

## Lighting Capacitors: Oil-Filled And Dry AC Film For HID Lighting Applications



Oil-Filled AC Film



### Applications

- High Intensity Discharge (HID) lighting applications
- Other high voltage ballast applications

### Features - Oil-filled AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant
- UL recognized
- Epoxidized Soybean Oil (ESO) filled
- Round and oval metal case
- Voltage ranges from 330 VAC to 525 VAC
- Operating temperature to 90°C

Item ID	MFD	Volts	Hertz	Shape	Diameter (In.)	Height (In.)	Width (In.)	Depth (In.)
<b>Packard Oil-Filled AC Film</b>								
PLC024400W	24	400	50/60	Oval	—	3.13	2.75	1.75
PLCR24400W	24	400	50/60	Round	1.75	3.75	—	—
PLC024480W	24	480	50/60	Oval	—	3.88	2.75	1.75
PLC026525W	26	525	50/60	Oval	—	4.25	2.75	1.75



Dry AC Film



### Applications

- High Intensity Discharge (HID) lighting applications
- Other high voltage ballast applications

### Features - Dry AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant
- UL recognized
- Filled with epoxy
- Round plastic case
- Voltage ranges from 240 VAC to 400 VAC
- Operating temperature to 105°C
- 8 inch, 18 AWG standard copper wire leads with UL listed insulation rated for 150°C
- Made in USA

Item ID	MFD	Volts	Hertz	Shape	Diameter (In.)	Height (In.)	Width (In.)	Depth (In.)
<b>Packard Dry AC Film</b>								
PLCR10330D	10	330	50/60	Round	1.58	2.68	—	—
PLCR10400D	10	400	50/60	Round	1.58	3.62	—	—
PLCR15400D	15	400	50/60	Round	1.58	3.62	—	—
PLCR24400D	24	400	50/60	Round	1.77	4.61	—	—
PLCR55240D	55	240	50/60	Round	1.77	3.62	—	—

## Two Wire Electro-mechanical Voltage Sensing Relay



### Features

- Potential relay and start capacitor for compressor hard start applications
- More reliable than PTC type hard starts
- Two wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resistor to safely discharge the capacitor

Item ID	Capacitor Size (µF)	Tons	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
<b>TorQstart</b>						
TQS1	189-227	1.5 - 3	Recip and Scroll	239-268	502	T0-5 SK3W3
TQS2	270-324	3.5 - 5	Recip and Scroll	280-315	502	KS1 SK3W6S

## Hard Start Kits And All In One Hard Start Packs



Standard PTC Relay and Hard Start Capacitor



### Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip



All Purpose 3-N-1 Kit



### Features

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- All models adapt to 115 volt compressors with external overload protector

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces	Item ID	Compressor Sizes	Volts	Replaces
<b>TorQstart Hard Start</b>					<b>TorQstart 3-N-1 Kit</b>			
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5	TQS21	1/2 HP	115	600-210 RC0210
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6	TQS41	1/4 and 1/3 HP	115	600-410 RC0410
TQS8	115-277	1/2 to 10	600%	32708 SPP7S	TQS81	1/12 thru 1/5 HP	115	600-810 RC0810





## Definite Purpose Contactors



### Features

Contactors meet UL508 specifications for devices up to 600 VAC.

- 50/60 Hertz •  us
- Coils have class B insulation
- Includes lugs, spade terminals and covers
- All single pole include shunt

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage
<b>Packard 1 Pole</b>					
C125A	1+	25	150/125/100	30	24
C125B	1+	25	150/125/100	30	120
C125C	1+	25	150/125/100	30	208/240
C130A	1+	30	180/150/120	40	24
C130B	1+	30	180/150/120	40	120
C130C	1+	30	180/150/120	40	208/240
C140A	1+	40	240/200/160	50	24
C140B	1+	40	240/200/160	50	120
C140C	1+	40	240/200/160	50	208/240
<b>Packard 2 Pole</b>					
C220A	2	20	120/100/80	30	24
C220B	2	20	120/100/80	30	120
C220C	2	20	120/100/80	30	208/240
C225A	2	25	150/125/100	35	24
C225B	2	25	150/125/100	35	120
C225C	2	25	150/125/100	35	208/240
C230A	2	30	180/150/120	40	24
C230B	2	30	180/150/120	40	120
C230C	2	30	180/150/120	40	208/240
C230D*	2	30	180/150/120	40	208/240
C230E	2	30	180/150/120	40	277
C240A	2	40	240/200/160	50	24
C240B	2	40	240/200/160	50	120
C240C	2	40	240/200/160	50	208/240
C240E	2	40	240/200/160	50	277

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage	Aux. Switch
<b>Packard 3 Pole</b>						
C325A	3	25	150/125/100	35	24	AC3
C325B	3	25	150/125/100	35	120	AC3
C325C	3	25	150/125/100	35	208/240	AC3
C330A	3	30	180/150/120	40	24	AC3, P6S, P7S
C330B	3	30	180/150/120	40	120	AC3, P6S, P7S
C330C	3	30	180/150/120	40	208/240	AC3, P6S, P7S
C330E	3	30	180/150/120	40	277	AC3, P6S, P7S
C330F	3	30	180/150/120	40	480	AC3, P6S, P7S
C340A	3	40	240/200/160	50	24	AC3, P6S, P7S
C340B	3	40	240/200/160	50	120	AC3, P6S, P7S
C340C	3	40	240/200/160	50	208/240	AC3, P6S, P7S
C340E	3	40	240/200/160	50	277	AC3, P6S, P7S
C340F	3	40	240/200/160	50	480	AC3, P6S, P7S
C350A	3	50	300/250/200	65	24	P8S, P38K
C350B	3	50	300/250/200	65	120	P8S, P38K
C350C	3	50	300/250/200	65	208/240	P8S, P38K
C350F	3	50	300/250/200	65	480	P8S, P38K
C360A	3	60	360/300/240	75	24	P8S, P38K
C360B	3	60	360/300/240	75	120	P8S, P38K
C360C	3	60	360/300/240	75	208/240	P8S, P38K
C360F	3	60	360/300/240	75	480	P8S, P38K
C375A	3	75	450/375/300	90	24	P9S
C375B	3	75	450/375/300	90	120	P9S
C375C	3	75	450/375/300	90	208/240	P9S
C390A	3	90	540/450/360	120	24	P9S
C390B	3	90	540/450/360	120	120	P9S
C390C	3	90	540/450/360	120	208/240	P9S
<b>Packard 4 Pole</b>						
C430A	4	30	180/150/120	40	24	AC3, P6S, P7S
C430B	4	30	180/150/120	40	120	AC3, P6S, P7S
C430C	4	30	180/150/120	40	208/240	AC3, P6S, P7S
C430F	4	30	180/150/120	40	480	AC3, P6S, P7S
C440A	4	40	240/200/160	50	24	AC3, P6S, P7S
C440B	4	40	240/200/160	50	120	AC3, P6S, P7S
C440C	4	40	240/200/160	50	208/240	AC3, P6S, P7S
C440F	4	40	240/200/160	50	480	AC3, P6S, P7S

Notes:  
\* Spade terminals and cover only.  
Auxiliary Switches sold separately. See page 226.

## Magnetic Contactor



Item ID	<b>C18001</b>
Type	DPST N.O.
Resistive Amps	30
Full Load Amps	30
Locked Rotor Amps	120
Coil Voltage	24
Hertz	50/60
Max. Surrounding Air Temp.	40°C
Phase	Single
<b>Replaces</b>	
3ARR8E4 90-230	MC11 R850B1146 18001

## DP Contactor



Item ID	<b>PR4013</b>
F/L Inductive Amps	30
Poles	1
Resistive Amps	40
Coil Voltage	24
<b>Replaces</b>	
DP1030A5013	



Maximum dependability in a “one for one” replacement for the Furnas DP contactor and many more.



### Features

- **MEETS THE ARI 780/790 STANDARD**
- Universal metal mounting plate allows for complete ease of replacement
- Long electrical life; tested to 250,000 cycles
- Reliable mechanical life; tested to 1,000,000 cycles
- EE magnet assembly assures optimal performance without sacrificing power consumption
- Superior copper coil
- Performance unaffected by mounting position
- Flexible termination options suitable for various applications
- Dust-free internal construction
- Removable contact inspection plate

Item ID	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Industry No.	Furnas Replacement	Accepts Aux. Switch
<b>Titan Max 1 Pole</b>							
TMX125A2	25	150/125/100	35	24	61315	45DG10AJA	
TMX125B2	25	150/125/100	35	120	61316	45DG10AFA	
TMX125C2	25	150/125/100	35	208/240	61317	45DG10AGA	
TMX130A2	30	180/150/120	40	24	61320	45EG10AJA	45EG10AJAL
TMX130B2	30	180/150/120	40	120	61321	45EG10AFA	45EG10AFAL
TMX130C2	30	180/150/120	40	208/240	61322	45EG10AGA	45EG10AGAL
TMX140A2	40	240/200/160	50	24	61330	45GG10AJA	45GG10AJAL
TMX140B2	40	240/200/160	50	120	—	45GG10AFA	45GG10AFAL
TMX140C2	40	240/200/160	50	208/240	—	45GG10AGA	45GG10AGAL
<b>Titan Max 2 Pole</b>							
TMX225A2	25	150/125/100	35	24	61410	42AF15AJ	45DG20AJ
TMX225B2	25	150/125/100	35	120	61411	42AF15AF	45DG20AF
TMX225C2	25	150/125/100	35	208/240	61412	42AF15AG	45DG20AG
TMX230A2	30	180/150/120	40	24	61425	42BF15AJ	45EG20AJ 45EG20AJL
TMX230B2	30	180/150/120	40	120	61426	42BF15AF	45EG20AF 45EG20AFL
TMX230C2	30	180/150/120	40	208/240	61427	42BF15AG	45EG20AG 45EG20AGL
TMX240A2	40	240/200/160	50	24	61440	42CF15AJ	45GG20AJ 45GG20AJL
TMX240B2	40	240/200/160	50	120	61441	42CF15AF	45GG20AFL
TMX240C2	40	240/200/160	50	208/240	61442	42CF15AG	45GG20AG 45GG20AGL
<b>Titan Max 3 Pole</b>							
TMX330A2	30	180/150/120	40	24	61430	42BF35AJ	Yes
TMX330B2	30	180/150/120	40	120	61431	42BF35AF	Yes
TMX330C2	30	180/150/120	40	208/240	61432	42BF35AG	Yes
TMX340A2	40	240/200/160	50	24	61445	42CF35AJ	Yes
TMX340B2	40	240/200/160	50	120	61446	42CF35AF	Yes
TMX340C2	40	240/200/160	50	208/240	61447	42CF35AG	Yes
TMX350A2	50	300/250/200	65	24	61460	42DF35AJ	Yes
TMX350B2	50	300/250/200	65	120	61461	42DF35AF	Yes
TMX350C2	50	300/250/200	65	208/240	61462	42DF35AG	Yes
TMX360A2	60	360/300/240	75	24	61470	42EF35AJ	Yes
TMX360B2	60	360/300/240	75	120	61471	42EF35AF	Yes
TMX360C2	60	360/300/240	75	208/240	61472	42EF35AG	Yes
TMX375A2	75	450/375/300	90	24	61480	42FE35AJ106	
TMX375B2	75	450/375/300	90	120	61481	42FE35AF106	
TMX375C2	75	450/375/300	90	208/240	61482	42FE35AG106	
TMX390A2	90	540/450/360	120	24	61490	42GE35AJ106	
TMX390B2	90	540/450/360	120	120	61491	42GE35AF106	
TMX390C2	90	540/450/360	120	208/240	61492	42GE35AG106	

Scan to learn more



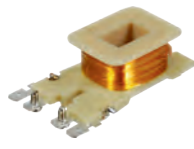
## TITAN MAX 4 Pole



Item ID	F/L Inductive Amps	Locked Rotor Amps		Coil Advantage	Furnas Replacement
		240/480/600	Resistive Amps		
<b>TITAN MAX</b>					
TMX430A2	30	180/150/120	40	24	42BF25AJ
TMX430B2	30	180/150/120	40	120	42BF25AF
TMX430C2	30	180/150/120	40	208-240	42BF25AG
TMX440A2	40	240/200/160	50	24	42CF25AJ
TMX440B2	40	240/200/160	50	120	42CF25AF
TMX440C2	40	240/200/160	50	208-240	42CF25AG

## Replacement Coils For Packard Contactors

### 3 Pole Contactor Replacement Coils



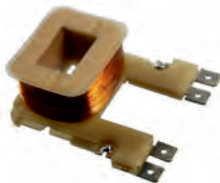
Item ID	Poles	Coil Voltage	Full Load Amps
<b>Packard 3 Pole</b>			
C32040A	3	24	20-40
C32040B	3	120	20-40
C32040C	3	208/240	20-40
C32040D	3	277	20-40
C32040E	3	480	20-40

Item ID	Poles	Coil Voltage	Full Load Amps
<b>Packard 3 Pole</b>			
C35060A	3	24	50-60
C35060B	3	120	50-60
C35060C	3	208/240	50-60
C35060D	3	277	50-60
C35060E	3	480	50-60



Item ID	Poles	Coil Voltage	Full Load Amps
<b>Packard 3 Pole</b>			
C37590B	3	120	75-90
C37590C	3	208/240	75-90

### 4 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
<b>Packard 4 Pole</b>			
C42040A	4	24	20-40
C42040B	4	120	20-40
C42040C	4	208/240	20-40
C42040D	4	277	20-40

## Replacement Coils For TITAN MAX Contactors

### 3 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
<b>TITAN MAX 3 Pole</b>			
TMXC32040A	3	24	20-40
TMXC32040B	3	120	20-40
TMXC32040C	3	208/240	20-40
TMXC35060A	3	24	50-60
TMXC35060B	3	120	50-60
TMXC35060C	3	208/240	50-60



Item ID	Poles	Coil Voltage	Full Load Amps
<b>TITAN MAX 3 Pole</b>			
TMXC37590B	3	120	75-90
TMXC37590C	3	208/240	75-90

## Auxiliary Switches For Packard Contactors



Item ID	Type	Use With
<b>Packard</b>		
P6S	SPDT	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
<b>Packard</b>		
P8S	SPDT	50-60 Amp 3 & 4 Pole
P9S	SPDT	70-90 Amp 3 & 4 Pole



Item ID	Type	Use With
<b>Packard</b>		
MI1	Mechanical Interlock	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
<b>Packard</b>		
P7S	DPDT	25-40 Amp 3 & 4 Pole



Item ID	Type	Use With
<b>Packard</b>		
AC4	1 SPDT	50-60 Amp 3 & 4 Pole



Item ID	Type	Use With
<b>Packard</b>		
AC3	NO/NC	25-40 Amp 3 & 4 Pole



Item ID	Type
<b>Packard</b>	
P38K	Includes P8S and AC3

## Auxiliary Switches For TITAN MAX Contactors

### Features

- For use on Titan Max 3 and 4 pole contactors 30-60 amp.



Item ID	Type
<b>TITAN MAX Auxiliary Contact Blocks with Quick Connect</b>	
TMX1NC	SPST NC
TMX1NO	SPST NO
TMX2NC	DPST NC
TMX2NO	DPST NO
TMX1NC/1NO	DPST 1NC + 1NO



Item ID	Type
<b>TITAN MAX Microswitch Blocks</b>	
TMXSPDT1	SPDT at left position
TMXSPDT2	SPDT at right position
TMX2SPDT	DPDT

## Air Conditioning Disconnect Boxes

Item ID	PDB30F
<ul style="list-style-type: none"> <li>30 amp A/C disconnect box</li> <li>Outdoor enclosure</li> <li>Metal</li> <li>c  us</li> </ul>	<ul style="list-style-type: none"> <li>Fused</li> <li>240 VAC</li> <li>Single phase</li> <li>Flip top door</li> <li>Nema type 3R</li> </ul>
Replaces	
DDS-30	83316
MA-Line	Square D 755-30F
MA-FD30A	

Item ID	PDB60F
<ul style="list-style-type: none"> <li>60 amp A/C disconnect box</li> <li>Outdoor enclosure</li> <li>Metal</li> <li>c  us</li> </ul>	<ul style="list-style-type: none"> <li>Fused</li> <li>240 VAC</li> <li>Single phase</li> <li>Flip top door</li> <li>Nema type 3R</li> </ul>
Replaces	
DDS-60	83317
MA-Line	Square D 755-60F
MA-FD60A	

Item ID	PDB60NF
<ul style="list-style-type: none"> <li>60 amp A/C disconnect box</li> <li>Outdoor enclosure</li> <li>Metal</li> <li>c  us</li> </ul>	<ul style="list-style-type: none"> <li>Non-fused</li> <li>240 VAC</li> <li>Single phase</li> <li>Flip top door</li> <li>Nema type 3R</li> </ul>
Replaces	
DDS-60U	83315
MA-Line	Square D 755-60NF
MA-NFD60A	

## Packard Whips

### Applications

- Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment

### Features

- 600 volt; Intended for 208/240/480 volt single phase circuits
- 12" conductor leads with 1/2" insulation stripped
- Stranded copper THHN/THWN insulated singles; Green insulated copper grounding conductor
- Highly flexible non-metallic conduit with factory installed conductors
- Liquid tight flexible non-metallic conduit type B (LFNC-B) fittings for easy and hassle-free hook-ups
- Straight connector on one end and 90 degree connector on the other end
- Non-metallic raceway is non-conducting and resistant to rust, cracks, and separation
- Completely assembled delivered from the factory ready to install



For information on connections contact Packard Customer Service.

Item ID	Trade Size (In.)	Conduit Length (feet)	Wire Size # of Cond.	Amps
<b>Packard</b>				
PW1204	1/2	4	#10 GA	30
PW1206	1/2	6	#10 AWG	30
PW3484	3/4	4	#8 GA	40
PW3486	3/4	6	#8 AWG	40

Color Coding	
No. of conductors	Color sequence 120/208Y
2	black, red
Grounding Conductor	green












## Packard Round Silicon Nitride Igniters

**Features**

- Round
- Made of durable silicon Nitride
- OEM direct replacements





	<p><b>IG1121N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• Mounting bracket included</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Goodman B1401015</p>	<p>Modine 5H075032B</p>
	<p><b>IG1401N</b></p> <ul style="list-style-type: none"> <li>• Gasket included</li> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 10041601 Starlite 11120-100-1401</p>	<p>Amana D99182 Amana B1336102 Trianco-Heatermaker 2600-359</p>
	<p><b>IG1402N</b></p> <ul style="list-style-type: none"> <li>• 19" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 10755002 DMO 20834 / 26789 Rheem 62-22441-01</p>	<p>Armstrong 38322B001 Clare C-238 / C-242 Dornback 271W Goodman B11726-06 Trane 340039P01, IGN23 Williamson 09050</p>
	<p><b>IG1403N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana B138196P01 Trane B138196P01 Weil McLain 511-330-193</p>	<p>Raypak 600915 Snyder General 1380654 Trane IGN26 Trane IGN30</p>
	<p><b>IG1405N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Heil Quaker 1001344 York 025-29043-000</p>	<p>York 025-27766-00 York 025-27774-000</p>
	<p><b>IG1408N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 340039P01 Rheem 62-2241-01</p>	<p>Lennox 98P78 Trane B340039P01 Rheem 62-2268-92 Starlite 11120-100-1408 Trane IGN-0034 Whirlpool 99794328</p>
	<p><b>IG1409N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Carrier LH33ZS001 Carrier LH33ZS004 Snyder General 1380680</p>	<p>Carrier LH33ZS002 Carrier LH33ZS003 Ducane 20015201 Snyder General 1380672 Trane IGN26 Weil McLain 511-330-139</p>
	<p><b>IG1410N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana B144676P01</p>	<p>Trane B144676P01</p>
	<p><b>IG1411N</b></p> <ul style="list-style-type: none"> <li>• Includes bracket &amp; connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Norton 271N</p>	<p>Rheem 62-22868-82</p>

## Packard Round Silicon Nitride Igniters

**Features**

- Round
- Made of durable silicon Nitride
- OEM direct replacements

	<p><b>IG1412N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Goodman B1401009 Norton 271NM</p>	<p>Heil Quaker 1009604</p>	<p>ICP 1009604</p>
	<p><b>IG1414N</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• Includes brackets and wire nuts</li> <li>• 120 Volts</li> </ul>	<p>Replaces:</p> <p>767A-384 Norton MB457025</p>	<p>Norton 271NM</p>	<p>Goodman B14010-15S</p>

## Packard Silicon Carbide Igniters

**Features**

- Silicon Carbide Igniters
- OEM direct replacements



	<p><b>IG3033</b></p> <ul style="list-style-type: none"> <li>• Used on many Trane package models beginning with YCD15, YCD17 and YCD18</li> <li>• Includes igniter, gasket, clip, mounting screws and installation instructions</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Trane KIT03033</p>		
	<p><b>IG1121</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• Mounting bracket included</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Goodman B1401015</p>	<p>Modine 5H075032B</p>	
	<p><b>IG1401</b></p> <ul style="list-style-type: none"> <li>• Gasket included</li> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 10041601 Starlite 11120-100-1401</p>	<p>Amana B1336102 Trianco-Heatermaker 2600-359</p>	<p>Amana D99182</p>
	<p><b>IG1402</b></p> <ul style="list-style-type: none"> <li>• 19" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 10755002 DMO 20834 / 26789 IGN23 Williamson 09050</p>	<p>Armstrong 38322B001 Dornback 271W Rheem 62-22441-01</p>	<p>Clare C-238 / C-242 Goodman B11726-06 Trane 340039P01</p>
	<p><b>IG1403</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana B138196P01 Trane B138196P01 Weil McLain 511-330-193</p>	<p>Raypak 600915 Trane IGN26</p>	<p>Snyder General 1380654 Trane IGN30</p>
	<p><b>IG1404</b></p> <ul style="list-style-type: none"> <li>• 5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Norton 271M Weil McLain MB478265</p>	<p>Rheem 1096048 White Rodgers 767A382</p>	<p>Robertshaw 41-404</p>



## Packard Silicon Carbide Igniters

### Features

- Silicon Carbide Igniters
- OEM direct replacements

	<p><b>IG1405</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Heil Quaker 1001344 York 025-27774-000</p>	<p>Heil Quaker 1148145 York 025-29043-000</p>	<p>York 025-27766-00</p>
	<p><b>IG1406</b></p> <ul style="list-style-type: none"> <li>• Gasket included</li> <li>• 11" Leads with wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Glowcore HSRK-7 Weil McLain 511-330-188</p>	<p>Lochinvar PLT2400</p>	<p>Spiral Igniter FY009</p>
	<p><b>IG1407</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Trane B144676P02</p>	<p>Trane IGN30</p>	
	<p><b>IG1408</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana 340039P01 Rheem 62-2268-93 Trane B340039P01</p>	<p>Lennox 98P78 Rheem 62-22868-92 Trane IGN-0034</p>	<p>Rheem 62-2241-01 Starlite 11120-100-1408 Whirlpool 99794328</p>
	<p><b>IG1409</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Carrier LH33ZS001 Carrier LH33ZS004 Snyder General 1380680</p>	<p>Carrier LH33ZS002 Ducane 20015201 Trane IGN26</p>	<p>Carrier LH33ZS003 Snyder General 1380672 Weil McLain 511-330-139</p>
	<p><b>IG1410</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Amana B144676P01</p>	<p>Trane B144676P01</p>	
	<p><b>IG1411</b></p> <ul style="list-style-type: none"> <li>• Includes bracket &amp; connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Norton 271N</p>	<p>Rheem 62-22868-82</p>	
	<p><b>IG1412</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Goodman B1401009 Norton 271NM</p>	<p>Heil Quaker 1009604</p>	<p>ICP 1009604</p>
	<p><b>IG1414</b></p> <ul style="list-style-type: none"> <li>• 5.5" Leads with connector</li> <li>• Includes brackets and wire nuts</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>767A-384 Norton MB457025</p>	<p>Goodman B14010-155</p>	<p>Norton 271NM</p>
	<p><b>IG2300</b></p> <ul style="list-style-type: none"> <li>• 24" Leads with 1/4" quick connects</li> <li>• Gasket included</li> <li>• 120 Volt</li> </ul>	<p>Replaces:</p> <p>Laars RW2002300</p>		

## Packard Silicon Carbide Igniters

### Features

- Silicon Carbide Igniters
- OEM direct replacements



#### IG0286

- 5.5" Leads with connector
- Gasket included
- 120 Volt

Replaces:  
Laars 2400-286



#### IG1100

- Includes brackets, screw and wire nuts
- 120 Volt
- Universal round carbide igniter

Replaces:

#### Robertshaw/Uniline

41-238	41-242
41-402	41-403
41-404	41-405
41-407	41-408
41-409	41-410
41-1090	

#### White-Rodgers

767A-301	767A-303
767A-310	767A-311
767A-350	767A-353
767A-354	767A-357
767A-361	767A-364
767A-365	767A-366
767A-370	767A-371
767A-372	



#### IG4000

- Includes brackets, screw and wire nuts
- 120 Volt
- Replaces hundreds of OEM Igniters

Replaces:

#### Robertshaw/Uniline

41-238	41-242
41-402	41-403
41-404	41-405
41-407	41-408
41-409	41-410
41-412	41-414
41-1090	

#### White-Rodgers

767A-301	767A-303
767A-310	767A-311
767A-350	767A-353
767A-354	767A-357
767A-361	767A-364
767A-365	767A-366
767A-370	767A-371
767A-372	



#### IG1114

- An exact replacement kit for Nordyne series G6 (and earlier models G3, G4, G5) and M2 furnaces.
- The kit includes complete installation instructions along with an adapter bracket and screws for G3RC, G4 (all), G5 (all), G3RA, G6 (all) and M2 (all) Nordyne furnaces.
- 120 Volts

Replaces:

Nordyne 632354  
Nordyne 903758

Nordyne 632363

Nordyne 903597

## Universal And Specialty Silicon Nitride Hot Surface Igniter Kits

### Features

- Silicon nitride has high fracture toughness and chemical resistance abilities and can be handled with the greasiest of hands
- For furnaces, boilers, pool and water heaters



#### IG80V

- 80 Volt / 120 watts
- Direct universal replacement

Replaces:

Amana 11111701  
HS100117A  
Trane B340970P01  
Trane IGN00104  
Trane IGN033







CAR768A845  
Lennox 41K5601  
Trane IGN00033  
Trane IGN00117  
Trane IGN059

CARIGN00117  
Thermo Products 768A-143  
Trane IGN00059  
Trane IGN0104

## Universal And Specialty Silicon Nitride Hot Surface Igniter Kits

**Features**


- Silicon nitride has high fracture toughness and chemical resistance abilities and can be handled with the greasiest of hands
- For furnaces, boilers, pool and water heaters

	<p><b>IG0001</b></p> <ul style="list-style-type: none"> <li>• Includes mini igniter, flat mounting plate, screw, instruction sheet and adapter harness; Manufactured using silicon nitride</li> <li>• 120 Volt</li> </ul>	<p>Replaces: Goodman 023K000005</p>	<p>Goodman B14010155</p>	<p>Goodman B14010185</p>
	<p><b>IG0004N</b></p> <ul style="list-style-type: none"> <li>• Silicone nitride igniter</li> <li>• 120 Volt</li> </ul>	<p>Replaces: Carrier LH33Z5004</p>		
	<p><b>IG1000N</b></p> <ul style="list-style-type: none"> <li>• 120 Volt</li> <li>• Universal round glo-stix</li> </ul>	<p>Replaces: Honeywell Q3200U1000\$ Norton 201D Norton 201L Norton 201R Norton 271 Norton 271N Norton 271W</p>	<p>Honeywell Q3200U1000\$ Norton 201J Norton 201M Norton 201W Norton 271D Norton 271NM Norton 271Y</p>	<p>Norton 201 Norton 201K Norton 201N Norton 201Y Norton 271M Norton 271P</p>
	<p><b>IG1090N</b></p> <ul style="list-style-type: none"> <li>• 120 Volt</li> <li>• Universal flat glo-stix</li> <li>• Can also replace Gas dryer igniters.</li> </ul>	<p>Replaces: Norton 101M Norton 201L Norton 201P Norton 271D Norton 271NM Norton 271RS</p>	<p>Norton 201D Norton 201M Norton 201W Norton 271M Norton 271P Norton 271W</p>	<p>Norton 201K Norton 201N Norton 271 Norton 271N Norton 271R</p>
	<p><b>IG8145N</b></p> <ul style="list-style-type: none"> <li>• Silicone Nitride Igniter</li> <li>• 80 Volt</li> </ul>	<p>Replaces: Trane IGN00033 Trane IGN00117</p>	<p>Trane IGN00059 Trane IGN00145</p>	<p>Trane IGN00104 Trane 768A-15</p>
	<p><b>IG9500</b></p> <ul style="list-style-type: none"> <li>• 24 Volt</li> <li>• Silicon nitride design</li> </ul>	<p>Replaces: Honeywell Q3400A1016 Honeywell Q3450 ICP 1009524</p>	<p>Honeywell Q3400A1024 Honeywell Q3480 ICP 1149856</p>	<p>Honeywell Q3400A1040 Honeywell Q3620 Igniters Direct "SMART LITE"</p>

## Flame Sensors

**Features**

- Flame sensors for Hot Surface Ignition (H.S.I.) systems
- Can be mounted remotely on multiple burners or adjacent to igniter on other applications
- For use with spark ignition and flame sensing
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand up to 1800°F

	<p><b>PFS010</b></p> <ul style="list-style-type: none"> <li>• Overall length: 3 3/4"</li> <li>• Probe length 2: 1/2"</li> </ul>	<p>Replaces: Goodman/Amana/Janitrol 20488501, B1172606, Goodman 0130F00010</p>
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## Flame Sensors

### Features

- Flame sensors for Hot Surface Ignition (H.S.I.) systems
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- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand up to 1800°F



#### PFS013

- Teflon insulated (250°C rating) lead wire
- Used on these Bryant & Carrier models: 355MAV, 345MAV, 340MAV, 350MAV, 373LAV, 58MXA, 58MVP and 58MCA

#### Replaces:

Carrier 340MAV  
Carrier 355MAV  
Carrier LH680013

Carrier 345MAV  
Carrier LH33WZ514

Carrier 350MAV  
Carrier LH33WZ516



#### PFS014

- Teflon insulated (250°C rating) lead wire
- 45 Degree
- For use with Carrier LH33ZS004 igniter
- Used on these Bryant & Carrier models: 330AAV, 330JAV, 333BAV, 333JAV, 398AAV, 58DHC, 58DXC, 58PAV, 58SSC, 58SXC, 58TUA and 58WAV

#### Replaces:

6-62442-18179-4  
Carrier LH680012

Carrier LH33WZ511  
Carrier LH680014

Carrier LH33WZ515



#### PFS301

- 90 Degree
- Length - mounting flange to sensor tip: 2 1/2"
- Length - sensor offset: 1 9/16"
- Angle - sensor offset: 90 degree
- Termination: 1/4" male quick connect
- Commonly found on the Following Models: UGDG VGDG UGDG VGDG UGDG UGDJ UGFD UGLG UGLH UGLI UGLJ UGLK UGLL UGLN UGLQ UGLR UGPH UGPJ UGPK UGPL UGPN UGPP UGPQ UGPR UGRA UGRB UGRJ UGRK UGRL UGRM UGSA UGTA UGTJ UGVG UGVH UGVJ 80LJ 80LS 80PJ 80PS 90RJ 90RS 90RT 90TJ 90TS RGFE RGLS RGPS URGRM RGRS RGRT RGTS SGPG SGPN

#### Replaces:

Rheem 62-23543-01



#### PFS401

- Teflon insulated (250°C rating) lead wire
- Single screw, plated steel mounting bracket
- Single rod
- 30 Inch lead with a female connection
- Probe length 3 inch

#### Replaces:

31380679



#### PFS700

- Single screw, plated steel mounting bracket
- Single rod
- Probe length 4 inch
- Can be mounted remotely on multiple burners or adjacent to igniter on other applications
- For use with spark ignition and flame sensing
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand 1800°F

#### Replaces:

Coleman 025-30788-700

York 025-25434-700

York 025-30788-700



#### PFS802

- Single screw, plated steel mounting bracket
- Single rod
- 1/4 Inch male connection
- Probe length 3 inch

#### Replaces:

ICP 1380687

York 025-27773-700

## Ditek Surge Protector



### PSP72KA Features

- Weatherproof enclosure
- Parallel connection for easy installation
- Diagnostic LED provides positive indication of power, ground presence, and surge protection
- Automatically resets to handle multiple surge events
- Typical Applications: A/C disconnect, small electrical panels, pool/well pumps
- Twice the response time as similar models



### PSP38VDC Features

- Voice, Data and Signaling circuit surge protection
- Adds no resistance to loop circuits
- #22-#16 AWG screw terminal connections
- For 24 volt service

Item ID	Service Wiring	Peak Surge Current	MCOV	UL 1449, 3rd Ed. V.P.R.	Short Circuit Current Rating	UL1449, 3rd Ed. In Rating	Replaces
<b>Ditek Surge Protector</b>							
<b>NEW</b> PSP38VDC	Screw Term	2,000 Amps/Pair	38VDC	UL497A & B	—	—	SYCST027B
PSP72KA	Split $\Phi$ (2W + G), 120/240VAC	72,000A/Phase 36,000A/Mode	130/260V	500V L-G, 900V L-L	10,000A	10,000A	SMC60 SMC150

## Electric Heating Restring Coil Kits



### General Purpose Restring Coil Kits

#### Features

- Restring kits are complete with terminal insulators, screws, washers and nuts.
- Tight coil wire with 11/32" maximum outer diameter.
- Packaged in a poly bag.

Item ID	Watts at 240 Volt	Watts at 208 Volt
<b>Packard</b>		
PH500	5000	3750
PH501	3500	2625
PH502	2000	1500
PH503	2500	1875
PH505	4500	3375
PH506	4000	3000
PH507	3000	2250
PH520	6600	4950

### 5/8" O.D. General Purpose Coil Kits

#### Features

Large open coil heaters for wall furnaces, duct heaters, electric furnaces, bathroom heaters and combination units.

- Coil is terminated with 1/4" spade terminal.
- Butt screws, bushings, nuts and instructions are included.

Item ID	Connector	Watts at 240 Volt	Watts at 208 Volt
<b>Packard</b>			
PH500FC	1/4" Spade	5000	3750
PH500FCB	Bolt	5000	3750
PH501FC	1/4" Spade	3500	2625
PH501FCB	Bolt	3500	2625



# STABILITY MATTERS

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IN ORDER TO MAINTAIN A SYSTEM THAT OPERATES SMOOTHLY,  
THE PARTS INSIDE HAVE TO WORK TOGETHER IN HARMONY.

HAVING WELL-BALANCED BLOWER WHEELS AND FAN BLADES  
HELP KEEP EQUIPMENT STABLE.



Revcor blower wheels and fan blades are designed for  
the most demanding airflow applications.

Each one is dynamically balanced to maximize performance,  
reduce noise, lower costs and increase the reliability of the  
accompanying motor, helping to prevent failure.

**REVCOR**  
REVOLUTIONARY AIR FLOW™



## OEM Direct Replacements

OEM Brand	OEM Part number	Item ID
<b>Revcor</b>		
CARRIER	LA01EA025	R32213
CARRIER	LA01EA026	R21801
CARRIER	LA01EA037	R32205
CARRIER	LA01EA038 / LA01EA037	R32206
CARRIER	LA01EC018	R31821
CARRIER	LA01EW051	R31404
CARRIER	LA01RA004	R32603
CARRIER	LA01RA005	R32607
CARRIER	LA01RA006	R32610
CARRIER	LA01RA015	R31811
CARRIER	LA01RA027	R32202
CARRIER	LA01RA028B	R32208
CARRIER	LA01RA033	R32017
CARRIER	LA01RA038A	R32215
CARRIER	LA01RA220	R22001
CARRIER	LA01RA221	R22002
CARRIER	LA01RA222	R22401
CARRIER	LA01RA225	R22402
CARRIER	LA01RA312	R32402
CARRIER	LA01RA320	R32004
CARRIER	LA01RA321	R32008
CARRIER	LA01RA323	R32409
CARRIER	LA01RA324	R32406
CARRIER	LA01RA325	R32401
CARRIER	LA01RA326	R32602
CARRIER	LA01RA327	R32605
CARRIER	LA01RA329	R32606
CARRIER	LA01RA334	R32601
GOODMAN	10625738	R32604
GOODMAN	0150M0001P	R32009
GOODMAN	0150M00016	R32204
GOODMAN	B1086756	R31815
GOODMAN	B1086764	R42201
GOODMAN	B1086765	R42209
GOODMAN	B1086770	R32201

OEM Brand	OEM Part number	Item ID
<b>Revcor</b>		
GOODMAN	B1086771	R31816
GOODMAN	B1086773	R32209
GOODMAN	B1086775 / 0150M00006	R32216
<b>NEW</b> GREENHECK	335629	R31270
<b>NEW</b> GREENHECK	335650	R31272
<b>NEW</b> HC DUKE	HC159037	R31268
<b>NEW</b> HUSSMAN	E316580	R31267
<b>NEW</b> HUSSMAN	E410387001	R31266
LENNOX	100060-09 / 68J2801	R41812
LENNOX	100060-10	R42210
LENNOX	100060-13	R42204
LENNOX	37L4801	R31604
LENNOX/ALLIED AIR	68J2601 / 100060-07	R31807
LENNOX/ALLIED AIR	68J2701 / 100060-08	R41805
LENNOX/EXCEL	100060-18	R32204
LENNOX/EXCEL	20391102	R31817
LENNOX/EXCEL	100060-03	R31810
LENNOX/EXCEL	100060-19	R32212
NORDYNE	667303	R32406
NORDYNE	6672790	R32003
NORDYNE	667261C	R31801
NORDYNE	667262B	R31814
NORDYNE	667316A	R32403
NORDYNE	667319A	R22405
RHEEM	702185906	R22201
RHEEM	7010132314	R31781
RHEEM	7010132315	R21781
RHEEM	7010201106	R32010
RHEEM	7010201107	R22204
RHEEM	70-102011-04	R22406
<b>NEW</b> SCOTTSMAN	18888201	R31271
<b>NEW</b> TAYLOR	63397	R31269
TRANE	D154218P38 / D154218P37	R22701
TRANE	D154229P01	R31901
TRANE	D154229P02	R31902

# TechTip

from Packard Academy

THE POSITION OF A FAN BLADE IS CRITICAL FOR PROPER SYSTEM PERFORMANCE. WHEN REMOVING AN OLD FAN BLADE, ALWAYS MEASURE THE LOCATION OF THE ORIFICE.

Learn more from the Packard Academy





## KH/KC Fans



### Applications

- Commercial air conditioning and ventilation
- Air handlers
- Cooling towers
- Large unit heaters
- Agricultural applications
- Bushings can be found on page 261

### Features

- 24 to 48 inch diameters
- Heavy-Gauge for added strength
- Steel spiders
- Rotation determined by viewing air-discharge side of fan
- Individually boxed
- 6 blade available
- Made in USA

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Location	Material	Max RPM	Industry No.
<b>Revcor KH/KC Fans Hubless</b>									
R42408	4	24	28	CW	—	Hubless	GALV	1140	40200
R42407	4	24	34	CW	—	Hubless	GALV	1140	40201
R42603	4	26	28	CW	—	Hubless	GALV	1140	40202
R42606	4	26	38	CW	—	Hubless	GALV	1140	40203
R42801	4	28	34	CW	5/8	Discharge	GALV	1140	40396
R43002	4	30	22	CW	—	Hubless	GALV	1140	40205
R43003	4	30	30	CW	5/8	Discharge	GALV	1140	40397
R43004	4	30	30	CW	—	Hubless	GALV	1140	40206
R43601	4	36	32	CW	—	Hubless	GALV	850	40208
R43602	4	36	34	CW	—	Hubless	GALV	850	40209
R43603	4	36	38	CW	—	Hubless	GALV	850	40211
R44201	4	42	30	CW	—	Hubless	GALV	850	40212
R44202	4	42	38	CW	—	Hubless	GALV	850	40213
R44801	4	48	38	CW	—	Hubless	GALV	700	40216

\* Fan should be guarded before operating.

\* Tighten cap screws securely before operating.

## Swept Fans

### Applications

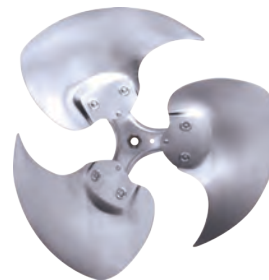
- Commercial and residential condensers



### Features

- Carrier Replacements
- Up to 50% reduction in noise level
- Rotation is determined by viewing the discharge side of fan
- Made in USA

Additional models available upon request



Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position
<b>Revcor 2 Blade</b>						
R22405	2	24	27	CW	1/2	Intake
R22701	2	27	28	CCW	1/2	Intake

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position
<b>Revcor 3 Blades</b>						
R32017	3	20	34	CW	1/2	Intake
R32603	3	26	19	CW	1/2	Intake
R32607	3	26	24	CW	1/2	Intake
R32610	3	26	28	CW	1/2	Intake





## Propellers With Fixed Hub - 3 Blades



### Applications

- Unitary condensing units, heat pumps, unit heaters, ventilators and exhaust fans

### Features

- 14 to 30 inch diameters
- Embossed for added strength
- Factory balanced
- Steel spiders with 1/2 and 5/8 inch bores
- Individually boxed
- Aluminum fan blades unless otherwise specified
- Made in USA

Additional blade options available upon request

Item ID	No. of Blades	Diam. (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Replaces
<b>Revcor 3 Blades</b>							
R31403	3	14	32	CW	1/2	Discharge	40328
R31404*	3	14	38	CW	1/2	Intake	LA01EW051
R31602	3	16	28	CW	1/2	Intake	40331
R31603	3	16	30	CW	1/2	Intake	40332
R31604	3	16	32	CCW	1/2	Intake	37L4801
R31781*	3	17.8	34	CCW	1/2	Intake	7010132314
R31801*	3	18	19	CW	1/2	Intake	667261C
R31804	3	18	26	CW	1/2	Discharge	40338
R31805	3	18	26	CCW	1/2	Intake	40339
R31809	3	18	27	CW	1/2	Discharge	40340
R31807*	3	18	27	CCW	1/2	Intake	68J2601
R31810*	3	18	27	CCW	1/2	Intake	100060-03
R31811	3	18	27	CW	1/2	Intake	LA01RA015
R31814*	3	18	30	CW	1/2	Intake	667262B
R31815*	3	18	31	CCW	1/2	Intake	B1086756
R31816	3	18	32	CCW	1/2	Intake	B1086771
R31817	3	18	32	CW	1/2	Intake	20391102
R31820	3	18	33	CW	1/2	Discharge	40343
R31821	3	18	35	CW	1/2	Intake	LA01EC018
R31901	3	19	30	CCW	1/2	Intake	D154229P01
R31902	3	19	32	CCW	1/2	Intake	D154229P02
R32001	3	20	23	CW	1/2	Discharge	F20233
R32003*	3	20	26	CW	1/2	Intake	6672790
R32004	3	20	26	CW	1/2	Intake	LA01RA320
R32008	3	20	28	CW	1/2	Intake	LA01RA321
R32009*	3	20	28	CCW	1/2	Intake	0150M00001P
R32010*	3	20	29	CCW	1/2	Intake	7010201106
R32014	3	20	31	CW	1/2	Discharge	L6130630001
R32201	3	22	19	CCW	1/2	Intake	B1086770
R32202*	3	22	20	CW	1/2	Intake	LA01RA027
R32203	3	22	20	CW	1/2	Intake	L6129570001

\*Note - Galvanized Fan Blades

Item ID	No. of Blades	Diam. (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Replaces
<b>Revcor 3 Blades</b>							
R32204	3	22	22	CCW	1/2	Intake	100060-18
R32207*	3	22	24	CW	1/2	Discharge	40352
R32205*	3	22	24	CW	1/2	Intake	L6130640001
R32206	3	22	24	CW	1/2	Intake	LA01EA038, 40353
R32208*	3	22	24	CW	1/2	Intake	LA01RA028B
R32209	3	22	24	CCW	1/2	Intake	B1086773
R32212	3	22	27	CW	1/2	Intake	100060-19
R32213	3	22	28	CW	1/2	Intake	LA01EA025
R32214	3	22	28	CW	1/2	Intake	40355
R32215*	3	22	28	CW	1/2	Intake	LA01RA038A
R32216	3	22	28	CCW	1/2	Intake	B1086775
R32221	3	22	33	CW	1/2	Intake	40356
R32401*	3	24	18	CW	1/2	Intake	LA01RA325
R32402*	3	24	19	CW	1/2	Intake	LA01RA312
R32403*	3	24	20	CW	1/2	Intake	667316A
R32404	3	24	22	CW	1/2	Intake	L6131430001
R32405	3	24	22	CCW	1/2	Intake	40323
R32406*	3	24	24	CW	1/2	Intake	LA01RA324
R32409*	3	24	26	CW	1/2	Intake	LA01RA323
R32410	3	24	30	CW	1/2	Intake	40359
R32601*	3	26	15	CW	1/2	Intake	LA01RA334
R32602	3	26	18	CW	1/2	Intake	LA01RA326
R32604	3	26	20	CCW	1/2	Intake	10625738
R32605*	3	26	21	CW	1/2	Intake	LA01RA327
R32606*	3	26	24	CW	1/2	Intake	LA01RA329
R32608	3	26	26	CW	1/2	Discharge	40362
R32609	3	26	27	CW	1/2	Intake	40363
R33001	3	30	30	CW	5/8	Discharge	

\*Note - Galvanized Fan Blades



# Propellers With Fixed Hub - 2, 4 And 5 Blades



### Applications

- Unitary condensing units, heat pumps, unit heaters, ventilators and exhaust fans

### Features

- 14 to 30 inch diameters
- Embossed for added strength
- Factory balanced
- Steel spiders
- Individually boxed
- Aluminum fan blades unless otherwise specified
- Made in USA

### Pitch Gauge



PG5099801

See page 271

Additional blade options available upon request

Item ID	No. of Blades	Diam. (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Replaces
<b>Revcor 2 Blade</b>							
R21402	2	14	36	CW	1/2	Discharge	L60743401
R21401	2	14	36	CCW	1/2	Intake	40301
R21781*	2	17.8	31	CCW	1/2	Intake	7010132315
R21801	2	18	20	CW	1/2	Intake	LA01EA026
R21802	2	18	24	CW	1/2	Intake	40305
R21803	2	18	29	CCW	1/2	Intake	40308
R21804	2	18	29	CW	1/2	Intake	40307
R21805	2	18	33	CCW	1/2	Intake	40408
R22001	2	20	20	CW	1/2	Intake	LA01RA220
R22002	2	20	24	CW	1/2	Intake	LA01RA221
R22003	2	20	29	CCW	1/2	Intake	40315
R22201*	2	22	22	CCW	1/2	Intake	40319
R22202	2	22	27	CCW	1/2	Intake	F22272
R22203*	2	22	29	CCW	1/2	Intake	40321
R22204*	2	22	35	CCW	1/2	Intake	7010201107
R22401*	2	24	16	CW	1/2	Intake	LA01RA222
R22402*	2	24	18	CW	1/2	Intake	LA01RA225
R22403	2	24	24	CCW	1/2	Intake	40324
R22404	2	24	27	CCW	1/2	Intake	L60772801
R22406*	2	24	31	CCW	1/2	Intake	70-102011-04

\*Note - Galvanized Fan Blades

Item ID	No. of Blades	Diam. (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Replaces
<b>Revcor 4 Blade</b>							
R41607	4	16	33	CW	1/2	Discharge	40372
R41805*	4	18	27	CCW	1/2	Intake	68J2701
R41808	4	18	30	CW	1/2	Intake	40375
R41811	4	18	33	CW	1/2	Discharge	40376
R41812	4	18	34	CCW	1/2	Intake	68J2801
R42009	4	20	33	CW	1/2	Intake	40378
R42010	4	20	36	CW	1/2	Intake	40379
R42201*	4	22	22	CCW	1/2	Intake	B1086764
R42205	4	22	24	CW	1/2	Discharge	40380
R42204	4	22	24	CCW	1/2	Intake	100060-13
R42206	4	22	26	CW	1/2	Intake	40381
R42209*	4	22	28	CCW	1/2	Intake	B1086765
R42210	4	22	32	CCW	1/2	Intake	100060-10
R42212	4	22	33	CCW	1/2	Intake	40382
R42404	4	24	27	CCW	1/2	Discharge	F24278
R42604	4	26	30	CW	5/8	Discharge	L6130720001
R43001	4	30	22	CW	5/8	Intake	40392
<b>Revcor 5 Blade</b>							
R51803	5	18	33	CW	1/2	Discharge	40404

\*Note - Galvanized Fan Blades



## Hubless Propellers



### Applications

- Air conditioning condensing units, power roof ventilators, heat pumps, heat exchangers, unit heaters, commercial and industrial equipment

### Features

- 10 to 24 inch diameter available
- Steel spiders
- Embossed for added strength
- For motor speeds up to 1625 RPM
- Use with interchangeable hubs
- Individually boxed
- Aluminum fan blades
- Made in USA

Additional blade options available upon request

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Replaces
<b>Revcor 3 Blade</b>					
R31201	3	12	19	CW	40061
R31202	3	12	27	CW	L6129790001
R31401	3	14	23	CW	L60716501
R31402	3	14	27	CW	L60716701
R31601	3	16	23	CW	
R31802	3	18	23	CCW	L60556001
R31803	3	18	23	CW	40041
R31806	3	18	27	CCW	40044
R31808	3	18	27	CW	40043
R31812	3	18	30	CCW	18307
R31813	3	18	30	CW	L60556301
R31818	3	18	33	CCW	40046
R31819	3	18	33	CW	40045
R32002	3	20	24	CW	L6129830001
R32005	3	20	27	CW	
R32006	3	20	28	CCW	L60556801
R32007	3	20	28	CW	40049
R32011	3	20	30	CW	40067
R32012	3	20	31	CCW	L60557001
R32013	3	20	31	CW	
R32015	3	20	33	CCW	40052
R32016	3	20	33	CW	40051
R32210	3	22	27	CCW	40054
R32211	3	22	27	CW	40053
R32217	3	22	30	CCW	40024
R32218	3	22	30	CW	40069
R32219	3	22	33	CCW	40056
R32220	3	22	33	CW	40055
R32407	3	24	26	CCW	40058
R32408	3	24	26	CW	40057
R32411	3	24	33	CW	

## Hubs With Set Screws & Mtg Screws



Item ID	Bore (In.)	No. of Set Screws
<b>Packard</b>		
H60765801	1/4	1
H60765802	5/16	1
H60765803	3/8	1
H60765804	1/2	2
H60765805	5/8	2
H60765806	3/4	2

## Shafts

### 1018 Cold Rolled Steel Ground & Polished



Item ID	Diameter (In.)	Length (In.)
<b>Packard</b>		
S38220501	5/8	20
S38209601	3/4	20
S38269301	3/4	35
S38209501	1	25
S38249201	1	35

Scan to view our training video on the difference between fan blades and blower wheels.





# Hubless Propellers



Item ID	No. of Blades	Diam. (In.)	Pitch (°)	Rotation	Replaces
<b>Revcor 4 Blade</b>					
R41001	4	10	27	CW	L60717701
R41201	4	12	23	CCW	40077
R41202	4	12	23	CW	40076
R41203	4	12	27	CCW	40079
R41204	4	12	27	CW	40078
R41205	4	12	33	CW	40080
R41401	4	14	23	CCW	L60718801
R41403	4	14	23	CW	40082
R41405	4	14	27	CCW	40085
R41406	4	14	27	CW	40084
R41407	4	14	33	CW	40086
R41601	4	16	23	CCW	L60719401
R41602	4	16	23	CW	40088
R41603	4	16	27	CCW	40091
R41604	4	16	27	CW	40090
R41605	4	16	33	CCW	16338
R41606	4	16	33	CW	40092
R41801	4	18	19	CW	18194
R41802	4	18	23	CCW	40095
R41803	4	18	23	CW	L60800201
R41804	4	18	27	CCW	40097
R41806	4	18	27	CW	18274
R41807	4	18	30	CCW	L60558401
R41809	4	18	33	CCW	18338
R41810	4	18	33	CW	18334
R42001	4	20	23	CCW	L60800501
R42002	4	20	23	CW	L60800401
R42003	4	20	27	CCW	40103
R42004	4	20	27	CW	40102
R42005	4	20	29	CCW	L60559001
R42006	4	20	29	CW	L60558901
R42007	4	20	33	CCW	40105
R42008	4	20	33	CW	40104
R42202	4	22	23	CCW	40107
R42203	4	22	23	CW	40106
R42207	4	22	27	CCW	40109
R42208	4	22	27	CW	40108
R42211	4	22	33	CW	40110
R42213	4	22	35	CW	40139
R42401	4	24	23	CCW	40113
R42402	4	24	23	CW	40112
R42403	4	24	27	CCW	40115
R42405	4	24	27	CW	40114
R42406	4	24	33	CW	40116
R42601	4	26	24	CW	L60760701
R42602	4	26	27	CW	40118
R42605	4	26	33	CW	L60761101

### Applications

- Air conditioning condensing units, power roof ventilators, heat pumps, heat exchangers, unit heaters, commercial and industrial equipment

### Features

- 10 to 26 inch diameter
- Steel spiders
- Embossed for added strength
- For motor speeds up to 1625 RPM
- Use with interchangeable hubs
- Individually boxed
- Aluminum fan blades
- Made in USA

Additional blade options available upon request



Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Replaces
<b>Revcor 5 Blade</b>					
R51601	5	16	27	CCW	40151
R51602	5	16	33	CW	40402
R51801	5	18	27	CCW	L60560601
R51802	5	18	27	CW	L60560501
R52201	5	22	33	CW	40164
R52401	5	24	27	CW	L60561701
R52402	5	24	33	CW	40168



Scan for Durability Demonstration

### 3-Blade Propellers Heavy Duty Condenser Style



**Applications**

- Air conditioning condensing units
- Power roof ventilators
- Heat pumps
- Heat exchangers
- Roof top air conditioners
- Commercial and industrial equipment
- Unit heaters
- Agricultural ventilating equipment
- Walk-in refrigeration units
- General cooling/heating applications

**Features**

- 3-blade configuration is normally used in low pressure applications.
- Square pressure-type blades are required for most condenser applications.
- High quality aluminum blades.
- Interchangeable hubs available from 1/4" through 3/4" bore, may be attached on either intake or discharge side.
- Pitches available for most common horsepower and motor speeds up to 1725 RPM in both CW and CCW rotations.

See page 240 for hubs

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
<b>Lau 3 Blades Heavy Duty Condenser Style</b>						
L60716101	12	19	CW		Interchangeable	2
L60716201	12	19	CCW		Interchangeable	2
L60716301	12	23	CW		Interchangeable	2
L60716401	12	23	CCW		Interchangeable	2
L60716501	14	23	CW		Interchangeable	2
L60716601	14	23	CCW		Interchangeable	2
L60716701	14	27	CW		Interchangeable	2
L60716801	14	27	CCW		Interchangeable	2
L60716901	16	19	CW		Interchangeable	2
L60717001	16	19	CCW		Interchangeable	2
L60717101	16	23	CW		Interchangeable	2
L60717201	16	23	CCW		Interchangeable	2
L612980001	16	27	CCW		Interchangeable	2
L60556001	18	23	CCW		Interchangeable	2
L6130610001	18	26	CW	1/2	Discharge	2
L60556101	18	27	CW		Interchangeable	2
L60556201	18	27	CCW		Interchangeable	2
L60556301	18	33	CW		Interchangeable	2
L60556401	18	30	CCW		Interchangeable	2
L60556501	18	33	CW		Interchangeable	2
L60556601	18	33	CCW		Interchangeable	2
L6130620001	18	35	CCW	1/2	Intake	2
L6129820001	20	24	CCW		Interchangeable	2
L60999001	20	25	CCW	1/2	Intake	2
L60556701	20	27	CW		Interchangeable	2
L60556801	20	27	CCW		Interchangeable	2
L60556901	20	30	CW		Interchangeable	2
L60557001	20	30	CCW		Interchangeable	2
L6130630001	20	31	CW	1/2	Discharge	2
L60557101	20	33	CW		Interchangeable	2
L60557201	20	33	CCW		Interchangeable	2
L6130640001	22	24	CW	1/2	Intake	2
L60557301	22	27	CW		Interchangeable	2
L60557401	22	27	CCW		Interchangeable	2
L6130650001	22	28	CW	1/2	Intake	2
L60557501	22	33	CW		Interchangeable	2
L60557601	22	33	CCW		Interchangeable	2
L6131430001	24	22	CW	1/2	Intake	2
L60557701	24	27	CW		Interchangeable	2
L60557801	24	27	CCW		Interchangeable	2
L60557901	24	33	CW		Interchangeable	2
L60558001	24	33	CCW		Interchangeable	2
L6129910001	26	33	CW		Interchangeable	1
L6130660001	26	37	CW	1/2	Intake	1
L6129930001	30	27	CW		Interchangeable	1



## 4-Blade Propellers Heavy Duty Condenser Style



### Applications

- Condensing units, general building and agricultural ventilation fans

### Features

- High strength aluminum blades with corrosion resistant center spiders

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
<b>Lau 4 Blades Heavy Duty Condenser Style</b>						
L60717301	10	19	CW		Interchangeable	2
L60717401	10	19	CCW		Interchangeable	2
L60717501	10	23	CW		Interchangeable	2
L60717601	10	23	CCW		Interchangeable	2
L60717701	10	27	CW		Interchangeable	2
L60717801	10	27	CCW		Interchangeable	2
L60759901	10	33	CW		Interchangeable	2
L60760001	10	33	CCW		Interchangeable	2
L60717901	12	19	CW		Interchangeable	2
L60718001	12	19	CCW		Interchangeable	2
L60718101	12	23	CW		Interchangeable	2
L60718201	12	23	CCW		Interchangeable	2
L60718301	12	27	CW		Interchangeable	2
L60718401	12	27	CCW		Interchangeable	2
L60760101	12	33	CW		Interchangeable	2
L60760201	12	33	CCW		Interchangeable	2
L6130000001	14	16	CCW		Interchangeable	2
L60718501	14	19	CW		Interchangeable	2
L60718601	14	19	CCW		Interchangeable	2
L60718701	14	23	CW		Interchangeable	2
L60718801	14	23	CCW		Interchangeable	2
L60718901	14	27	CW		Interchangeable	2
L60719001	14	27	CCW		Interchangeable	2
L60760301	14	33	CW		Interchangeable	2
L60760401	14	33	CCW		Interchangeable	2
L60719101	16	19	CW		Interchangeable	2
L60719201	16	19	CCW		Interchangeable	2
L60719401	16	23	CCW		Interchangeable	2
L60719501	16	27	CW		Interchangeable	2
L60719601	16	27	CCW		Interchangeable	2
L60760501	16	33	CW		Interchangeable	2
L60760601	16	33	CCW		Interchangeable	2
L60800201	18	23	CW		Interchangeable	2
L60800301	18	23	CCW		Interchangeable	2
L60558101	18	27	CW		Interchangeable	2
L60558201	18	27	CCW		Interchangeable	2
L60558301	18	30	CW		Interchangeable	2

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
<b>Lau 4 Blades Heavy Duty Condenser Style</b>						
L60558401	18	30	CCW		Interchangeable	2
L60558501	18	33	CW		Interchangeable	2
L60558601	18	33	CCW		Interchangeable	2
L60800401	20	23	CW		Interchangeable	2
L60800501	20	23	CCW		Interchangeable	2
L60558701	20	27	CW		Interchangeable	2
L60558801	20	27	CCW		Interchangeable	2
L60558901	20	30	CW		Interchangeable	2
L60559001	20	30	CCW		Interchangeable	2
L60559101	20	33	CW		Interchangeable	2
L60559201	20	33	CCW		Interchangeable	2
L60804101	22	23	CW		Interchangeable	2
L60804201	22	23	CCW		Interchangeable	2
L60559301	22	27	CW		Interchangeable	2
L60559401	22	27	CCW		Interchangeable	2
L60841201	22	30	CW	1/2	Discharge	2
L60559501	22	33	CW		Interchangeable	2
L60559601	22	33	CCW		Interchangeable	2
L6130190001	24	18	CW		Interchangeable	2
L60804301	24	23	CW		Interchangeable	2
L60804401	24	23	CCW		Interchangeable	2
L60841701	24	23	CCW	1/2	Intake	2
L60559701	24	27	CW		Interchangeable	2
L60559801	24	27	CCW		Interchangeable	2
L60559901	24	33	CW		Interchangeable	2
L60560001	24	33	CCW		Interchangeable	2
L60760701	26	24	CW		Interchangeable	1
L60760801	26	24	CCW		Interchangeable	1
L60760901	26	27	CW		Interchangeable	1
L60761001	26	27	CCW		Interchangeable	1
L60997201	26	32	CW	5/8	Discharge	1
L60761101	26	33	CW		Interchangeable	1
L60761201	26	33	CCW		Interchangeable	1
L61017601	28	25	CW	5/8	Discharge	1
L6131250001	30	27	CW		Interchangeable	1
L6127290001	30	30	CW	5/8	Discharge	1
L6131260001	30	33	CCW		Interchangeable	1
L6131270001	30	33	CW		Interchangeable	1



## 2-Blade Propellers OEM Style With Fixed Hub



**Applications**

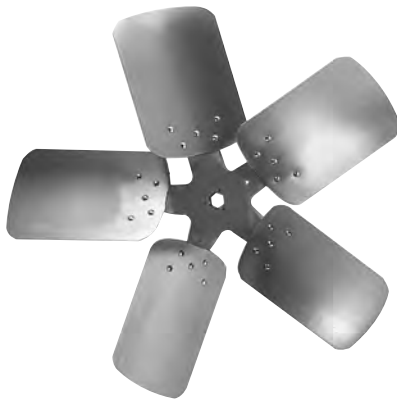
- For lower static pressure condensing units.
- Replacements for G.E., Rheem-Rudd, Singer-Climate Control, Trane, etc.

**Features**

- 14 to 24 inch diameter
- High strength aluminum blades
- Each blade clearly labeled as to Pitch, Diameter, Rotation, and Maximum RPM
- Top quality, epoxy painted spiders with high salt spray characteristics
- Steel fixed hub - 1/2" bore - exact propellers as supplied to OEMs

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
<b>Lau 2 Blades OEM-Style with Fixed Hub</b>						
L6130470001	14	32	CW	1/2	Discharge	2
L6130500001	18	24	CW	1/2	Intake	2
L60772501	18	28	CCW	1/2	Intake	2
L6130510001	18	29	CW	1/2	Intake	2
L60652101	18	32	CCW	1/2	Intake	2
L6130520001	18	36	CW	1/2	Intake	2
L60772601	20	28	CCW	1/2	Intake	2
L6130560001	20	28	CW	1/2	Intake	2
L60772701	22	16	CCW	1/2	Intake	2
L60814201	22	27	CCW	1/2	Intake	2
L6130570001	24	19	CCW	1/2	Intake	2
L61040201	24	22	CCW	1/2	Intake	2
L6130580001	24	24	CCW	1/2	Intake	2
L60772801	24	27	CCW	1/2	Intake	2

## 5-Blade Propellers Heavy Duty Condenser Style



**Applications**

- Industrial air circulators, exhaust fan units and large condensing units

**Features**

- High quality aluminum blades with corrosion resistant center spiders

See page 240 for hubs

Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
<b>Lau 5 Blades Heavy Duty Condenser Style</b>					
L60720101	10	27	CW	Interchangeable	2
L60720201	10	27	CCW	Interchangeable	2
L60720401	12	19	CW	Interchangeable	2
L60720501	12	23	CW	Interchangeable	2
L60720601	12	23	CCW	Interchangeable	2
L60720701	12	27	CW	Interchangeable	2
L60720801	12	27	CCW	Interchangeable	2
L60721101	14	23	CW	Interchangeable	2
L60721201	14	23	CCW	Interchangeable	2
L60721301	14	27	CW	Interchangeable	2
L60721401	14	27	CCW	Interchangeable	2
L60560101	16	27	CW	Interchangeable	2
L60560201	16	27	CCW	Interchangeable	2
L60560301	16	33	CW	Interchangeable	2
L60560401	16	33	CCW	Interchangeable	2
L60560501	18	27	CW	Interchangeable	2
L60560601	18	27	CCW	Interchangeable	2
L60560901	20	27	CW	Interchangeable	2
L60561001	20	27	CCW	Interchangeable	2
L60561101	20	33	CW	Interchangeable	2
L60561201	20	33	CCW	Interchangeable	2
L60561301	22	27	CW	Interchangeable	2
L60561401	22	27	CCW	Interchangeable	2
L60561501	22	33	CW	Interchangeable	2
L60561601	22	33	CCW	Interchangeable	2
L60561701	24	27	CW	Interchangeable	2
L60561801	24	27	CCW	Interchangeable	2
L60561901	24	33	CW	Interchangeable	2
L60562001	24	33	CCW	Interchangeable	2
L60761301	26	27	CW	Interchangeable	1
L60761401	26	27	CCW	Interchangeable	1
L60761501	26	33	CW	Interchangeable	1
L60761601	26	33	CCW	Interchangeable	1
L6130420001	30	29	CCW	Interchangeable	1





## 3-Blade And 4-Blade Propellers Free Air Style

### Applications

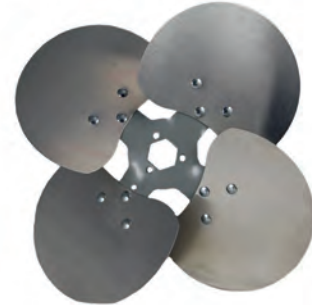
- Pedestal and window fans, air circulators



Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
<b>Lau 3 Blades Free Air Style</b>					
L60265201	10	27	CW	Interchangeable	2
L60265301	10	27	CCW	Interchangeable	2
L60265401	12	23	CW	Interchangeable	2
L60265501	12	23	CCW	Interchangeable	2
L60265801	14	23	CW	Interchangeable	2
L60265901	14	23	CCW	Interchangeable	2
L60266201	16	23	CW	Interchangeable	2
L60266301	16	23	CCW	Interchangeable	2
L60555901	18	23	CW	Interchangeable	2
L60556001	18	23	CCW	Interchangeable	2
L60267001	20	23	CW	Interchangeable	2
L60267101	20	23	CCW	Interchangeable	2
L60267601	24	18	CW	Interchangeable	2

### Features

- Designed for free air, low pressure applications
- High quality, rounded aluminum blades for maximum free air delivery with minimum noise levels
- Pitches available for most common HP and motor speeds
- Hubs attached on either the intake or discharge side



Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
<b>Lau 4 Blades Free Air Style</b>					
L60269301	10	23	CW	Interchangeable	2
L60269401	10	23	CCW	Interchangeable	2
L60262201	12	23	CW	Interchangeable	2
L60262301	12	23	CCW	Interchangeable	2
L60262801	14	27	CW	Interchangeable	2
L60262901	14	27	CCW	Interchangeable	2
L60555301	18	23	CW	Interchangeable	2
L60555401	18	23	CCW	Interchangeable	2
L60555501	18	27	CW	Interchangeable	2
L60555601	18	27	CCW	Interchangeable	2
L60263801	20	23	CW	Interchangeable	2
L60263901	20	23	CCW	Interchangeable	2
L60264001	20	27	CW	Interchangeable	2
L60264101	20	27	CCW	Interchangeable	2
L60285301	20	33	CW	Interchangeable	2
L60285401	20	33	CCW	Interchangeable	2
L60562101	24	18	CW	Interchangeable	2
L60562201	24	18	CCW	Interchangeable	2
L60562301	24	23	CW	Interchangeable	2
L60562401	24	23	CCW	Interchangeable	2
L60562501	24	27	CW	Interchangeable	2
L60562601	24	27	CCW	Interchangeable	2

## Small Aluminum Fan Blades With Hubs



4 Blades



5 Blades



10 Blades



FB99100

Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation
<b>Packard</b>						
A61948	2	10	Intake	3/16	12	CW
A61949	2 1/2	10	Intake	3/16	20	CW
A61950	3	10	Intake	3/16	24	CW
A61954	3	10	Intake	1/4	30	CW
A61951	3 1/2	10	Intake	3/16	27	CW
A61955	3 1/2	10	Intake	1/4	40	CW
A61952	4	10	Intake	3/16	28	CW
A61956	4	10	Intake	1/4	30	CW
A61465	4 1/2	10	Intake	3/16	30	CW
A61467	5	10	Intake	3/16	35	CW
A61468	5	10	Intake	1/4	40	CW
A61473	5 1/2	4	Intake	1/4	19	CW
A61474	5 1/2	4	Intake	3/16	19	CW
A61476	5 1/2	4	Intake	3/16	19	CCW
A64550	5 1/2	4	Intake	3/16	19	CW
A64455	5 1/2	4	Intake	3/16	24	CCW
A65503	5 1/2	5	Intake	5/16	27	CW
A65504	5 1/2	5	Intake	1/4	27	CW
A65513	5 1/2	5	Intake	5/16	27	CCW
A65515	5 1/2	5	Intake	1/4	27	CCW
A61469	6	4	Intake	3/16	19	CW
A61470	6	4	Intake	1/4	19	CW
A65125	6	4	Intake	1/4	19	CW
A60604	6	5	Intake	1/4	27	CW
A60614	6	5	Intake	1/4	27	CCW
A65632	6	5	Intake	5/16	27	CW
A65633	6	5	Intake	5/16	27	CCW
A65131	6	5	Intake	5/16	30	CW
A65225	6	5	Discharge	1/4	30	CCW
A65231	6	5	Discharge	5/16	30	CCW
A61471	6 1/2	4	Intake	3/16	19	CW
A64650	6 1/2	4	Intake	1/4	19	CW
A66504	6 1/2	5	Intake	1/4	27	CW
A63473	7	5	Intake	1/4	21	CW
A60704	7	5	Intake	1/4	27	CW
A60714	7	5	Intake	1/4	27	CCW
A65732	7	5	Intake	5/16	27	CW
A75131	7	5	Intake	5/16	40	CW
A75225	7	5	Discharge	1/4	40	CCW
A75231	7	5	Discharge	5/16	40	CCW

Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation
<b>Packard</b>						
A63475	8	5	Intake	1/4	23	CW
A63841	8	5	Discharge	1/4	24	CW
A65825	8	5	Intake	1/4	27	CW
A65826	8	5	Intake	1/4	27	CCW
A65832	8	5	Intake	5/16	27	CW
A65833	8	5	Intake	5/16	27	CCW
A85131	8	5	Intake	5/16	30	CW
A60804	8	5	Intake	1/4	36	CW
A60805	8	5	Intake	5/16	36	CW
A60814	8	5	Intake	1/4	36	CCW
A60815	8	5	Intake	5/16	36	CCW
A85225	8	5	Discharge	1/4	40	CCW
A85231	8	5	Discharge	5/16	40	CCW
A63477	9	5	Intake	1/4	25	CW
A65925	9	5	Intake	1/4	26	CW
A65926	9	5	Intake	1/4	26	CCW
A65932	9	5	Intake	5/16	26	CW
A65933	9	5	Intake	5/16	26	CCW
A95131	9	5	Intake	5/16	30	CW
A95225	9	5	Discharge	1/4	30	CCW
A95231	9	5	Discharge	5/16	30	CCW
A65105	10	5	Intake	1/4	20	CCW
A65104	10	5	Intake	1/4	20	CW
A65133	10	5	Intake	5/16	20	CCW
A65132	10	5	Intake	5/16	20	CW
A63479	10	5	Intake	1/4	28	CW
A15225	10	5	Discharge	1/4	30	CCW
A61322	10	5	Intake	5/16	30	CCW
A61323	10	5	Discharge	5/16	30	CCW
A61312	10	5	Intake	5/16	30	CW
A61015	10	5	Intake	5/16	40	CCW
A61005	10	5	Intake	5/16	40	CW
A65123	12	5	Discharge	5/16	23	CW
A61215	12	5	Intake	5/16	24	CCW
A61216	12	5	Discharge	5/16	24	CCW
A61205	12	5	Intake	5/16	24	CW
FB99100	12	5	Discharge	1/2	33	CW
A61405	14	5	Intake	5/16	19	CW
A65145	14	5	Intake	1/2	32	CW

## Small Aluminum Fan Blades - Hubless



5 Blades



6 Blades

Item ID	Diameter (In.)	Blades	Pitch (°)	Rotation
<b>Packard</b>				
A61101	6	5	21	CW
A61102	6	5	21	CCW
A63607	6	5	30	CW
A63617	6	5	30	CCW
A61608	6 3/4	5	21	CW
A61618	6 3/4	5	21	CCW
A67513	6 3/4	5	30	CW
A67523	6 3/4	5	30	CCW
A63474	7	5	21	CW
A61103	7	5	25	CW
A61104	7	5	25	CCW
A63707	7	5	31	CW
A63717	7	5	31	CCW
A75221	7	5	40	CCW
A63100	7 3/4	5	22	CW
A65751	7 3/4	5	22	CCW
A77551	7 3/4	5	40	CW
A77552	7 3/4	5	40	CCW
A63806	8	5	22	CW
A63816	8	5	22	CCW
A63476	8	5	30	CW
A63817	8	5	30	CCW
A61831	8	5	31	CW
A61835	8	5	35	CW
A61837	8	5	37	CCW
A85223	8	5	40	CCW
A85150	8	6	50	CW
A85250	8	6	50	CCW
A61807	8 3/4	5	30	CW
A61817	8 3/4	5	30	CCW
A87513	8 3/4	5	30	CW
A87523	8 3/4	5	30	CCW
A63906	9	5	25	CW
A63916	9	5	25	CCW
A63917	9	5	30	CCW
A63907	9	5	31	CW
A63116	10	5	25	CCW
A63126	10	5	25	CW
A61480	10	5	28	CW
A61108	10	5	30	CW
A61481	10	5	30	CCW
A63117	10	5	30	CCW

## Plastic Fan Blades



Item ID	Diameter (In.)	Number of Blades	Rotation	Bore (In.)	Replaces Notes
<b>Packard</b>					
A61299	2 1/2	4	CW	3/16	
A61300	3	4	CW	1/8	
A61301	3	4	CW	3/16	
A61302	3 1/2	4	CCW	3/16	
A61353	4	4	CCW	Hub	
A61406	4	4	CW	1/8	
A61408	4	4	CW	3/16	
A61401	4	5	CW	1/8	
A61402	4	5	CW	3/16	
A61403	4	5	CCW	1/8	
A61404	4	5	CCW	3/16	
A61501	5	5	CW	3/16	
A61502	5	5	CW	1/4	
A61503	5	5	CW	5/16	
A61504	5	5	CCW	3/16	
A61505	5	5	CCW	1/4	
A61506	5	5	CCW	5/16	
A61550	5 1/2	4	CCW	3/16	
A61551	5 1/2	4	CW	3/16	
A61455	5 9/16	5	CCW	3/16	
A61602	6	4	CW	1/4	
A61603	6	4	CW	5/16	
A61604	6	4	CCW	3/16	
A61605	6	4	CCW	1/4	
A61606	6	4	CCW	5/16	
A61601	6	6	CW	3/16	
A61650	6 1/2	5	CW	3/16	
A61651	6 1/2	5	CW	1/4	
A61652	6 1/2	5	CW	5/16	
A61660	6 5/8	5	CW	7/32	D-STYLE BORE
A61665	6 5/8	5	CW	7/32	D-STYLE BORE
A61701	7	5	CW	1/4	
A61703	7	5	CCW	1/4	
A61718	7	5	CW	Hub	Gemline FB718
A61801	8	5	CW	1/4	
A61802	8	5	CW	5/16	

\*Note - Additional blades available upon request.

## Universal Single Inlet Blower Wheels



Strip Wheels



Tab Lock

### Applications

- Draft inducers, power venting, small appliances, heating, ventilation, air conditioning, convectors, appliances, kitchen and bath exhaust

### Features

- 5 1/4" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Made in USA
- Additional blower wheels available upon request

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Lock Type	Replaces
<b>Revcor</b>									
RBW30100	3	1	CW	5/16	7500	Aluminum	Inside	Strip Wheels	
RBW30101	3	1 7/8	CW	5/16	5000	Alum. Steel	Inside	Strip Wheels	
RBW30102	3	1 7/8	CCW	5/16	5000	Alum. Steel	Inside	Strip Wheels	
RBW30103	3 13/16	1 1/8	CCW	1/4	5800	Alum. Steel	Inside	Tab Lock	
RBW30104	3 13/16	1 1/4	CW	1/2	8350	Galvanized	Inside	Tab Lock	
RBW30105	3 13/16	1 1/4	CCW	1/2	8350	Galvanized	Inside	Tab Lock	
RBW30106	3 13/16	1 1/2	CW	5/16	8350	Alum. Steel	Inside	Strip Wheels	
RBW30107	3 13/16	1 1/2	CCW	5/16	8350	Alum. Steel	Inside	Strip Wheels	
RBW30109	3 13/16	1 7/8	CW	5/16	5000	Galvanized	Inside	Strip Wheels	40556
RBW30110	3 13/16	1 7/8	CCW	5/16	5000	Galvanized	Inside	Strip Wheels	40557
RBW30111	3 13/16	2 1/16	CW	5/16	5000	Galvanized	Inside	Strip Wheels	
RBW30112	3 13/16	2 1/16	CCW	5/16	5000	Galvanized	Inside	Strip Wheels	
RBW30108	3 13/16	1 5/8	CCW	5/16	7200	Galvanized	Inside	Tab Lock	
RBW30115	3 13/16	2 1/4	CW	5/16	5375	Alum. Steel	Inside	Tab Lock	
RBW30116	3 13/16	2 1/4	CCW	5/16	5375	Alum. Steel	Inside	Tab Lock	
RBW30117	3 13/16	2 1/2	CW	5/16	5000	Galvanized	Inside	Strip Wheels	
RBW30118	3 13/16	2 1/2	CCW	5/16	5000	Galvanized	Inside	Strip Wheels	40559
RBW40101*	4	1 1/2	CCW	5/16	5800	Alum. Steel	Inside	Tab Lock	40564
RBW40102*	4	2 1/2	CCW	1/4	3600	Galvanized	Inside	Tab Lock	40563, 40601
RBW40103	4 1/4	2 1/2	CW	3/8	4500	Alum. Steel	Inside	Strip Wheels	
RBW40104	4 1/4	2 1/2	CCW	3/8	4500	Alum. Steel	Inside	Strip Wheels	
RBW40105	4 1/4	2 15/16	CCW	1/4	4500	Galvanized	Inside	Strip Wheels	40565
RBW40106	4 1/4	2 15/16	CW	1/4	4500	Galvanized	Inside	Strip Wheels	
RBW40107	4 1/4	2 15/16	CCW	5/16	4500	Galvanized	Inside	Strip Wheels	
RBW40108	4 1/4	2 15/16	CW	5/16	4500	Galvanized	Inside	Strip Wheels	
RBW40109	4 3/4	2 1/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	40603
RBW40110	4 3/4	2 1/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	40602
RBW40111	4 3/4	2 1/2	CCW	1/2	3600	Alum. Steel	Inside	Strip Wheels	
RBW40112	4 3/4	2 1/2	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW40113	4 3/4	2 1/2	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW40114	4 3/4	2 1/2	CCW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW40115	4 3/4	2 1/2	CW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW40117	4 3/4	2 15/16	CCW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW40118	4 3/4	2 15/16	CW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW40119	4 3/4	2 15/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW40120	4 3/4	2 15/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW40121	4 3/4	3 7/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW40122	4 3/4	3 7/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	40605, 40606
RBW40123	4 13/16	1 1/8	CW	5/16	7400	Galvanized	Inside	Tab Lock	
RBW40124	4 13/16	1 1/8	CCW	5/16	7400	Galvanized	Inside	Tab Lock	
RBW50100	5 1/16	2 1/2	CW	1/2	4000	Galvanized	Inside	Tab Lock	
RBW50101	5 1/16	2 7/8	CW	1/2	3500	Galvanized	Inside	Tab Lock	
RBW50102	5 1/16	3	CW	5/16	3300	Alum. Steel	Inside	Tab Lock	
RBW50103	5 1/4	2 1/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50104	5 1/4	2 1/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	

\*1/2" Deep conic back plate



## Universal Single Inlet Blower Wheels



Strip Wheels



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### Applications

- Draft inducers, power venting, small appliances, heating, ventilation, air conditioning, convectors, appliances, kitchen and bath exhaust

### Features

- 5 1/4" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Made in USA
- Additional blower wheels available upon request

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Lock Type	Replaces
<b>Revcor</b>									
RBW50105	5 1/4	2 1/2	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50106	5 1/4	2 1/2	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50107	5 1/4	2 1/2	CW	5/16	3600	Galvanized	Inside	Strip Wheels	40609
RBW50108	5 1/4	2 1/2	CCW	5/16	3600	Galvanized	Inside	Strip Wheels	40608
RBW50109	5 1/4	2 15/16	CW	5/16	3600	Galvanized	Inside	Strip Wheels	40611
RBW50110	5 1/4	2 15/16	CCW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW50111	5 1/4	2 15/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50112	5 1/4	2 15/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50113	5 1/4	3 7/16	CW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW50114	5 1/4	3 7/16	CCW	5/16	3600	Galvanized	Inside	Strip Wheels	
RBW50115	5 1/4	3 7/16	CW	1/2	3600	Galvanized	Inside	Strip Wheels	
RBW50116	5 1/4	3 7/16	CCW	1/2	3600	Galvanized	Inside	Strip Wheels	40607
RBW50117	5 1/2	1	CW	5/16	3800	Galvanized	Inside	Tab Lock	
RBW50118	5 1/2	1 3/4	CW	1/2	3800	Alum. Steel	Inside	Tab Lock	
RBW50119	5 3/4	1 1/2	CCW	1/2	3700	Galvanized	Inside	Tab Lock	
RBW50120	5 3/4	2	CW	1/2	3400	Galvanized	Inside	Tab Lock	
RBW50121	5 3/4	2	CCW	1/2	3400	Galvanized	Inside	Tab Lock	
RBW50122	5 3/4	2 1/2	CW	1/2	3900	Galvanized	Inside	Tab Lock	
RBW50123	5 3/4	2 1/2	CCW	1/2	3900	Galvanized	Inside	Tab Lock	
RBW50124	5 3/4	2 1/2	CCW	5/16	3450	Galvanized	Inside	Strip Wheels	
RBW50125	5 3/4	2 1/2	CW	5/16	3450	Galvanized	Inside	Strip Wheels	
RBW50126	5 3/4	2 3/4	CW	5/16	3550	Galvanized	Inside	Tab Lock	
RBW50127	5 3/4	2 3/4	CCW	5/16	3550	Galvanized	Inside	Tab Lock	
RBW50128	5 3/4	2 15/16	CW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW50129	5 3/4	2 15/16	CCW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW50130	5 3/4	3	CW	5/16	2800	Galvanized	Inside	Tab Lock	
RBW50131	5 3/4	3	CCW	5/16	2800	Galvanized	Inside	Tab Lock	
RBW50132	5 3/4	3 7/16	CW	3/8	3000	Galv. Ring and Back / Alum. Blades	Inside	Strip Wheels	
RBW50133	5 3/4	3 7/16	CCW	3/8	3000	Galv. Ring and Back / Alum. Blades	Inside	Strip Wheels	
RBW50134	5 3/4	3 7/16	CW	5/16	3000	Galvanized	Inside	Strip Wheels	
RBW50135	5 3/4	3 7/16	CCW	5/16	3000	Galvanized	Inside	Strip Wheels	
RBW50136	5 3/4	3 13/16	CW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW50137	5 3/4	3 13/16	CCW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW50139	5 3/4	4	CW	1/2	2800	Galvanized	Inside	Strip Wheels	40615
RBW50140	5 3/4	4	CCW	1/2	2800	Galvanized	Inside	Strip Wheels	
RBW60100	6 5/16	1 1/2	CW	5/16	3300	Aluminum	Inside	Tab Lock	
RBW60102	6 5/16	2	CW	1/2	3200	Galvanized	Inside	Tab Lock	40617
RBW60103	6 5/16	2	CCW	1/2	3200	Galvanized	Inside	Tab Lock	40618
RBW60104	6 5/16	2 1/2	CW	1/2	2800	Galvanized	Inside	Tab Lock	40619
RBW60105	6 5/16	2 1/2	CCW	1/2	2800	Galvanized	Inside	Tab Lock	40620
RBW60108	6 5/16	2 15/16	CCW	5/16	3400	Galvanized	Inside	Strip Wheels	



## Universal Single Inlet Blower Wheels



Strip Wheels



Tab Lock

### Applications

- Draft inducers, power venting, small appliances, heating, ventilation, air conditioning, convectors, appliances, kitchen and bath exhaust

### Features

- 5 1/4" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Made in USA
- Additional blower wheels available upon request

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Lock Type	Replaces
<b>Revcor</b>									
RBW60109	6 5/16	2 15/16	CW	5/16	3400	Galvanized	Inside	Strip Wheels	
RBW60110	6 5/16	3	CW	1/2	3400	Galvanized	Inside	Tab Lock	40623
RBW60111	6 5/16	3	CCW	1/2	3400	Galvanized	Inside	Tab Lock	40624
RBW60112	6 5/16	3 1/4	CW	5/8	2100	Alum. Steel	Inside	Tab Lock	
RBW60113	6 5/16	3 1/4	CCW	5/8	2100	Alum. Steel	Inside	Tab Lock	
RBW60114	6 5/16	3 7/16	CW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW60115	6 5/16	3 7/16	CCW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW60116	6 5/16	3 13/16	CW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW60117	6 5/16	3 13/16	CCW	1/2	3000	Galvanized	Inside	Strip Wheels	
RBW60118	6 5/16	4	CW	1/2	2800	Galvanized	Inside	Strip Wheels	
RBW60119	6 5/16	4	CCW	1/2	2800	Galvanized	Inside	Strip Wheels	
RBW60121	6 5/16	1 1/32	CW	5/16	3450	Aluminum	Inside	Strip Wheels	
RBW60122	6 5/16	1 1/32	CCW	5/16	3450	Aluminum	Inside	Strip Wheels	
RBW60123	6 3/4	4	CW	1/2	2200	Galvanized	Inside	Tab Lock	
RBW60124	6 3/4	4	CCW	1/2	2200	Galvanized	Inside	Tab Lock	
RBW70100	7 1/8	1	CW	5/8	3700	Galvanized	Inside	Tab Lock	
RBW70101	7 1/8	1	CCW	5/8	3700	Galvanized	Inside	Tab Lock	
RBW70102	7 1/8	1 7/8	CCW	1/2	3200	Galvanized	Inside	Tab Lock	41204
RBW70103	7 1/8	1 7/8	CCW	1/2	3200	Galvanized	Inside	Tab Lock	
RBW70104	7 1/8	1 7/8	CW	5/16	3350	Galvanized	Inside	Tab Lock	
RBW70105	7 1/8	2	CCW	5/16	2900	Galvanized	Inside	Tab Lock	
RBW70106	7 1/8	2 1/2	CW	1/2	2400	Galvanized	Inside	Tab Lock	
RBW70107	7 1/8	4	CCW	3/8	1500	Galvanized	Inside	Tab Lock	
RBW70108	7 1/8	4	CCW	1/2	2000	Galvanized	Inside	Tab Lock	
RBW70109	7 1/8	4	CW	1/2	2000	Galvanized	Inside	Tab Lock	
RBW70110	7 7/16	1 1/2	CCW	1/2	3100	Galvanized	Inside	Tab Lock	
RBW70111	7 7/16	2 1/4	CW	1/2	3375	Galvanized	Inside	Tab Lock	
RBW70112	7 7/16	2 1/4	CCW	1/2	3375	Galvanized	Inside	Tab Lock	
RBW70113	7 7/16	2 1/2	CW	1/2	2500	Aluminum	Inside	Tab Lock	
RBW70114	7 7/16	2 1/2	CCW	1/2	2500	Aluminum	Inside	Tab Lock	
RBW70115	7 7/16	2 3/4	CW	1/2	2825	Galvanized	Inside	Tab Lock	40632
RBW70116	7 7/16	2 3/4	CCW	1/2	2825	Galvanized	Inside	Tab Lock	40633
RBW70117	7 7/16	3 1/4	CW	1/2	2400	Galvanized	Inside	Tab Lock	
RBW70118	7 7/16	3 1/4	CCW	1/2	2400	Galvanized	Inside	Tab Lock	
RBW70119	7 7/16	4	CW	1/2	1650	Aluminum	Inside	Tab Lock	
RBW70120	7 7/16	4	CCW	1/2	1650	Aluminum	Inside	Tab Lock	
RBW70121	7 5/8	4	CW	1/2	2000	Galvanized	Inside	Tab Lock	
RBW80101	8	1 1/2	CW	1/2	3000	Galvanized	Inside	Tab Lock	
RBW80102	8	1 1/2	CCW	1/2	3000	Galvanized	Inside	Tab Lock	
RBW80103	8	1 3/4	CCW	1/2	2800	Alum. Steel	Inside	Tab Lock	
RBW80104	8	1 7/8	CW	1/2	2800	Galvanized	Inside	Tab Lock	
RBW80105	8	2	CW	3/8	2700	Alum. Steel	Inside	Tab Lock	
RBW80106	8	2 1/4	CCW	1/2	2500	Galvanized	Inside	Tab Lock	
RBW80108	8	2 3/8	CCW	1/2	2300	Galvanized	Inside	Tab Lock	41205
RBW80110	8	2 1/2	CCW	1/2	2400	Galvanized	Inside	Tab Lock	



## Universal Single Inlet Blower Wheels



Strip Wheels



Tab Lock

### Applications

- Draft inducers, power venting, small appliances, heating, ventilation, air conditioning, convectors, appliances, kitchen and bath exhaust

### Features

- 5 1/4" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Made in USA
- Additional blower wheels available upon request

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Lock Type	Replaces
<b>Revcor</b>									
RBW80111	8	4	CCW	1/2	1650	Aluminum	Inside	Tab Lock	
RBW80112	8	4	CW	1/2	1650	Aluminum	Inside	Tab Lock	
RBW80113	8 1/2	1.5	CCW	1/2	2800	Galvanized	Inside	Tab Lock	
RBW80116	8 1/2	2	CCW	5/8	2600	Alum. Steel	Inside	Tab Lock	41212
RBW80117	8 1/2	2 3/4	CW	1/2	2400	Galvanized	Outside	Tab Lock	40615
RBW80118	8 1/2	2 3/4	CCW	1/2	2400	Galvanized	Outside	Tab Lock	
RBW80119	8 1/2	3 3/4	CW	1/2	1850	Galvanized	Inside	Tab Lock	
RBW80120	8 1/2	3 3/4	CCW	1/2	1850	Galvanized	Inside	Tab Lock	
RBW80121	8 1/2	4	CW	1/2	1650	Galvanized	Inside	Tab Lock	
RBW80122	8 1/2	4	CCW	1/2	1650	Galvanized	Inside	Tab Lock	
RBW80123	8 1/2	4 1/4	CW	1/2	1500	Galvanized	Inside	Tab Lock	
RBW80124	8 1/2	4 1/4	CCW	1/2	1500	Galvanized	Inside	Tab Lock	
RBW90102	9 1/8	1 3/4	CCW	5/8	2400	Alum. Steel	Inside	Tab Lock	41208
RBW90103	9 1/8	2	CW	1/2	2150	Galvanized	Outside	Tab Lock	
RBW90104	9 1/8	3	CW	5/16	1650	Aluminum	Outside	Tab Lock	
RBW90105	9 1/8	3 3/4	CW	1/2	1575	Galvanized	Inside	Tab Lock	
RBW90106	9 1/8	3 3/4	CCW	1/2	1575	Galvanized	Inside	Tab Lock	
RBW90107	9 1/8	4 1/4	CW	1/2	1450	Galvanized	Inside	Tab Lock	
RBW90108	9 1/8	4 1/4	CCW	1/2	1450	Galvanized	Inside	Tab Lock	
RBW90109	9 1/8	4 1/2	CW	5/8	1375	Aluminum	Inside	Tab Lock	
RBW90110	9 1/8	4 1/2	CCW	5/8	1375	Aluminum	Inside	Tab Lock	
RBW90111	9 1/2	2	CCW	5/8	2200	Alum. Steel	Inside	Tab Lock	
RBW90112	9 7/8	1 1/2	CCW	5/8	2400	Galvanized	Inside	Tab Lock	41213
RBW90114	9 7/8	1 1/2	CCW	5/8	2400	Alum. Steel	Inside	Tab Lock	41241
RBW90116	9 7/8	1 7/8	CW	5/8	2200	Galvanized	Inside	Tab Lock	
RBW90117	9 7/8	1 7/8	CCW	5/8	2200	Galvanized	Inside	Tab Lock	40642
RBW90123	9 7/8	2	CCW	5/8	2100	Galvanized	Inside	Tab Lock	41202
RBW90124	9 7/8	2	CCW	5/8	2100	Alum. Steel	Inside	Tab Lock	41201
RBW90126	9 7/8	2 1/8	CCW	1/2	1900	Galvanized	Inside	Tab Lock	41242
RBW90128	9 7/8	2 1/4	CCW	1/2	1850	Galvanized	Inside	Tab Lock	
RBW90130	9 7/8	2 1/2	CCW	5/8	1750	Alum. Steel	Inside	Tab Lock	
RBW90131	9 7/8	6	CW	1/2	1100	Galvanized	Inside	Tab Lock	
RBW10100	10 3/4	1 3/8	CCW	5/8	2200	Galvanized	Inside	Tab Lock	
RBW10101	10 3/4	3	CW	1/2	1300	Galvanized	Outside	Tab Lock	
RBW10102	10 3/4	3	CCW	1/2	1300	Galvanized	Outside	Tab Lock	
RBW10103	10 3/4	4	CCW	1/2	1150	Galvanized	Inside	Tab Lock	
RBW10104	10 3/4	4	CW	1/2	1150	Galvanized	Inside	Tab Lock	
RBW10105	10 3/4	4 7/8	CCW	1/2	1125	Galvanized	Inside	Tab Lock	
RBW10106	10 3/4	5	CCW	1/2	1100	Galvanized	Inside	Tab Lock	
RBW10107	10 3/4	6	CW	1/2	1050	Galvanized	Inside	Tab Lock	
RBW10108	10 3/4	6	CCW	1/2	1050	Galvanized	Inside	Tab Lock	
RBW11100	11 5/8	2 1/2	CW	1/2	1550	Galvanized	Outside	Tab Lock	
RBW12100	12 5/8	5	CW	1/2	950	Galvanized	Inside	Tab Lock	
RBW12101	12 5/8	5	CCW	1/2	950	Galvanized	Inside	Tab Lock	
RBW12102	12 5/8	6	CCW	3/4	900	Galvanized	Inside	Tab Lock	

## Universal Double Inlet Blower Wheels



### Applications

- Power venting, small appliances, heating, ventilation, air conditioning, PTAC, fan coils, and mini split systems

### Features

- 4 3/4" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Variety of materials available
- Made in USA
- Additional blower wheels available upon request

Item ID	Diameter (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Type	Replaces
<b>Revcor</b>									
RBW40200	4 3/4	6 7/8	CW	1/2	3600	Aluminum	Center	Strip Wheels	41102
RBW50200	5 1/4	6 7/8	CW	1/2	3600	Aluminum	Center	Strip Wheels	41134
RBW50201	5 1/4	6 7/8	CCW	1/2	3600	Galvanized	Center	Strip Wheels	41108
RBW50202	5 1/4	6 7/8	CW	1/2	3600	Galvanized	Center	Strip Wheels	41107
RBW50203	5 1/4	6	CW	1/2	2800	Galvanized	Center	Tab Lock	
RBW50204	5 1/4	6 3/4	CCW	1/2	2250	Galvanized	Center	Tab Lock	
RBW50205	5 1/4	8	CCW	1/2	3200	Galvanized	Center	Strip Wheels	
RBW50206	5 1/2	5	CW	1/2	3200	Galvanized	Center	Tab Lock	
RBW50207	5 1/2	6 1/2	CCW	1/2	2800	Galvanized	Center	Tab Lock	41110
RBW50208	5 3/4	5	CW	1/2	3450	Galvanized	Center	Strip Wheels	41111
RBW50209	5 3/4	5 7/8	CW	1/2	3000	Galvanized	Center	Strip Wheels	41112
RBW50215	5 3/4	6	CCW	1/2	2700	Galvanized	Center	Tab Lock	
RBW50216	5 3/4	6 1/2	CCW	1/2	2400	Aluminum	Center	Tab Lock	
RBW50210	5 3/4	6 7/8	CW	1/2	3000	Galvanized	Center	Strip Wheels	41113
RBW50218	5 3/4	7 1/4	CCW	3/8	2000	Aluminum	Center	Tab Lock	
RBW50211	5 3/4	7 5/8	CCW	1/2	3000	Galvanized	Center	Strip Wheels	41115
RBW50212	5 3/4	7 5/8	CW	1/2	3000	Galvanized	Center	Strip Wheels	41114
RBW50214	5 3/4	8	CW	1/2	2800	Galvanized	Center	Strip Wheels	41116
RBW50219	5 3/4	8	CCW	1/2	1600	Galvanized	Center	Strip Wheels	41117
RBW50220	5 3/4	9	CW	3/8	1200	Aluminum	Center	Tab Lock	
RBW60200	6 1/8	7 1/4	CW	1/2	2000	Galvanized	Center	Tab Lock	
RBW60204	6 5/16	4	CW	1/2	2800	Galvanized	Center	Tab Lock	
RBW60205	6 5/16	5	CW	1/2	2700	Galvanized	Center	Tab Lock	
RBW60206	6 5/16	5 7/16	CW	1/2	3000	Galvanized	Off Center	Strip Wheels	
RBW60207	6 5/16	6	CCW	3/8	2350	Galvanized	Center	Tab Lock	
RBW60208	6 5/16	6 3/8	CW	1 1/4	2200	Aluminum	Center	Tab Lock	
RBW60201	6 5/16	6 7/8	CW	1/2	3000	Galvanized	Center	Strip Wheels	41123
RBW60209	6 5/16	6 7/8	CCW	1/2	3000	Galvanized	Center	Strip Wheels	
RBW60210	6 5/16	7	CCW	1/2	2100	Galvanized	Center	Tab Lock	41127
RBW60211	6 5/16	7	CW	1/2	2100	Galvanized	Center	Tab Lock	41126
RBW60212	6 5/16	7 1/2	CCW	1/2	2000	Aluminum	Center	Tab Lock	
RBW60202	6 5/16	7 5/8	CCW	1/2	3000	Aluminum	Center	Strip Wheels	41124
RBW60213	6 5/16	7 5/8	CW	1/2	1900	Galvanized	Center	Tab Lock	41130
RBW60214	6 5/16	7 7/8	CW	1/2	1700	Aluminum	Center	Tab Lock	
RBW60203	6 5/16	8	CW	1/2	2800	Galvanized	Center	Strip Wheels	41125
RBW60215	6 5/16	8 1/8	CW	1/2	1700	Galvanized	Center	Tab Lock	
RBW60216	6 5/16	8 1/8	CCW	1/2	1700	Galvanized	Center	Tab Lock	
RBW60217	6 5/16	8 1/4	CW	1/2	1675	Galvanized	Center	Tab Lock	
RBW60218	6 3/4	7 1/4	CW	1/2	2000	Galvanized	Center	Tab Lock	
RBW60219	6 3/4	8 1/4	CW	1/2	1700	Galvanized	Center	Tab Lock	
RBW70203	7 7/16	7	CCW	1/2	1800	Galvanized	Center	Tab Lock	
RBW70204	7 7/16	9	CW	1/2	1625	Galvanized	Center	Tab Lock	41132
RBW70205	7 5/8	5 3/8	CCW	3/8	2050	Galvanized	Center	Tab Lock	
RBW70206	7 5/8	7	CW	1/2	1800	Galvanized	Center	Tab Lock	
RBW80200*	8 1/2	7	CW	1/2	1750	Galvanized	Center	Tab Lock	
RBW90200*	9 1/2	5 3/4	CW	1/2	1750	Galvanized	Center	Tab Lock	



## Circulation Double Inlet Blower Wheels



### Applications

- Furnaces, ventilation, air conditioning, mini split systems, evaporative coolers, commercial A/C, and fan coils

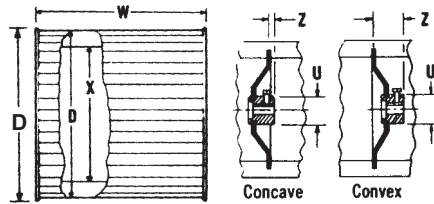
### Features

- 9 1/2" to 12 5/8" diameters
- Embossed backs for added strength
- Factory balanced
- Individually boxed
- Made in USA
- Additional blower wheels available upon request

Item ID	Diameter (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM	Material	Hub Location	Back Plate	Replaces
<b>Revcor</b>									
RBW90201	9 1/2	4 1/2	CW	1/2	1750	Galvanized	Center	Convex	41360
RBW90202	9 1/2	6 1/16	CW	1/2	1750	Galvanized	Center	Convex	41303
RBW90203	9 1/2	7 1/8	CCW	1/2	1750	Galvanized	Center	Convex	41306
RBW90204	9 1/2	7 1/8	CW	1/2	1750	Galvanized	Center	Convex	41307
RBW90205	9 1/2	8 1/16	CCW	1/2	1750	Galvanized	Center	Convex	41310
RBW90206	9 1/2	8 1/16	CW	1/2	1750	Galvanized	Center	Convex	41311
RBW90207	9 1/2	9 1/2	CW	1/2	1750	Galvanized	Center	Concave	41312
RBW90208	9 1/2	9 1/2	CCW	1/2	1750	Galvanized	Center	Concave	41361
RBW90209	9 7/8	7	CCW	1/2	1550	Galvanized	Center	Convex	
RBW90210	9 7/8	9 1/4	CCW	1/2	1200	Galvanized	Center	Convex	
RBW90211	9 7/8	10 1/2	CCW	1/2	1150	Galvanized	Center	Convex	
RBW10201	10 5/8	4 1/2	CW	1/2	1750	Galvanized	Center	Convex	41314
RBW10202	10 5/8	6 1/16	CCW	1/2	1750	Galvanized	Center	Convex	41317
RBW10203	10 5/8	6 1/16	CW	1/2	1750	Galvanized	Center	Convex	41318
RBW10204	10 5/8	6 1/16	CW	5/8	1750	Galvanized	Center	Convex	41321
RBW10205	10 5/8	7 1/8	CW	1/2	1750	Galvanized	Center	Convex	41323
RBW10206	10 5/8	7 1/8	CCW	1/2	1750	Galvanized	Center	Convex	41362
RBW10207	10 5/8	8 1/16	CCW	1/2	1750	Galvanized	Center	Convex	41326
RBW10208	10 5/8	8 1/16	CW	1/2	1750	Galvanized	Center	Convex	41327
RBW10209	10 5/8	9 1/2	CCW	1/2	1750	Galvanized	Center	Concave	41328
RBW10210	10 5/8	9 1/2	CW	1/2	1750	Galvanized	Center	Concave	41329
RBW10211	10 5/8	9 1/2	CW	1/2	1750	Galvanized	Center	Convex	41331
RBW10212	10 5/8	10 11/16	CCW	1/2	1750	Galvanized	Center	Concave	41332
RBW10213	10 5/8	10 11/16	CW	1/2	1750	Galvanized	Center	Concave	41333
<b>NEW</b> RBW10214	10 5/8	10 11/16	CW	1/2	1750	Galvanized	Center	Convex	
RBW10215	10 3/4	10 1/2	CW	1/2	1150	Galvanized	Center	Convex	41335
RBW11200	11 15/16	6 1/6	CW	1/2	1550	Galvanized	Center	Convex	41339
RBW11201	11 15/16	7 1/8	CW	1/2	1550	Galvanized	Center	Convex	41341
RBW11202	11 15/16	8 1/16	CW	1/2	1550	Galvanized	Center	Convex	41345
RBW11203	11 15/16	8 1/16	CW	1/2	1550	Galvanized	Center	Concave	41343
RBW11204	11 15/16	8 1/16	CCW	1/2	1550	Galvanized	Center	Convex	41344
RBW11205	11 15/16	9 1/2	CCW	1/2	1550	Galvanized	Center	Convex	41348
RBW11206	11 15/16	9 1/2	CW	1/2	1550	Galvanized	Center	Convex	41349
RBW11207	11 15/16	10 11/16	CCW	1/2	1550	Galvanized	Center	Concave	41350
RBW11208	11 15/16	10 11/16	CW	1/2	1550	Galvanized	Center	Concave	41351
RBW12200	12 7/8	9 1/2	CW	5/8	1200	Galvanized	Center	Convex	41354
RBW12201	12 7/8	9 1/2	CW	1/2	1200	Galvanized	Center	Convex	41363
RBW12202	12 7/8	12 5/8	CW	1/2	1200	Galvanized	Center	Concave	41355
RBW12203	12 7/8	12 5/8	CW	5/8	1200	Galvanized	Center	Concave	41356



## Double Inlet Blower Wheels



### Fan Blade & Blower Wheel Puller



A89000

See page 271

### Features

- Universal replacement wheels for direct drive blowers
- Galvanized, cold rolled steel
- Recommended for application temperatures that do not exceed 135°F (60°C)

Item ID	Bore	Rotation	Center Disc	Max RPM	Dimensions (In.)				
					D	W	X	U	Z
<b>Lau</b>									
L01333501	1/2	CW	Convex	1750	9 1/2	6	7 11/16	1 1/4	1 25/32
L01333602	1/2	CW	Convex	1750	9 1/2	7 1/8	7 11/16	1 1/4	1 25/32
L01333603	1/2	CCW	Convex	1750	9 1/2	7 1/8	7 11/16	1 1/4	1 25/32
L01333701	1/2	CW	Convex	1750	9 1/2	8	7 11/16	1 1/4	1 25/32
L01333703	1/2	CCW	Convex	1750	9 1/2	8	7 11/16	1 1/4	1 25/32
L01333201	1/2	CW	Concave	1750	9 1/2	9 1/2	7 11/16	1 1/4	7/32
L01333203	1/2	CCW	Concave	1750	9 1/2	9 1/2	7 11/16	1 1/4	7/32
L01332701	1/2	CW	Convex	1750	10 5/8	4 1/2	8 7/8	1 1/4	1 15/16
L01332601	1/2	CW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332602	1/2	CCW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332614	5/8	CW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332501	1/2	CW	Convex	1750	10 5/8	7 1/8	8 7/8	1 1/4	1 15/16
L02710204	1/2	CCW	Convex	1750	10 5/8	7 1/8	8 7/8	1 1/4	1 15/16
L01332401	1/2	CW	Convex	1750	10 5/8	8	8 7/8	1 1/4	1 15/16
L01332402	1/2	CCW	Convex	1750	10 5/8	8	8 7/8	1 1/4	1 15/16
L01331701	1/2	CW	Concave	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01331704	1/2	CCW	Concave	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01332301	1/2	CW	Convex	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01331602	1/2	CW	Concave	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L01332203	1/2	CW	Convex	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L01331606	1/2	CCW	Concave	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L02694003	1/2	CW	Convex	1550	11 3/4	6	10	1 1/4	—
L02694005	1/2	CW	Convex	1550	11 3/4	7 1/8	10	1 1/4	—
L02694007	1/2	CW	Convex	1550	11 3/4	8	10	1 1/4	—
L02694107	1/2	CW	Concave	1550	11 3/4	8	10	1 1/4	—
L02694008	1/2	CCW	Convex	1550	11 3/4	8	10	1 1/4	—
L02694009	1/2	CW	Convex	1550	11 3/4	9 1/2	10	1 1/4	—
L02694010	1/2	CCW	Convex	1550	11 3/4	9 1/2	10	1 1/4	—
L02694111	1/2	CW	Concave	1550	11 3/4	10 5/8	10	1 1/4	—
L02694112	1/2	CCW	Concave	1550	11 3/4	10 5/8	10	1 1/4	—
L01369325	1/2	CW	Convex	1200	12 5/8	9 1/2	10 5/16	1 1/4	2
L01369315	5/8	CW	Convex	1200	12 5/8	9 1/2	10 5/16	1 1/4	2
L01556507	1/2	CW	Concave	1200	12 5/8	12 5/8	10 5/16	1 1/4	1/16
L01556504	5/8	CW	Concave	1200	12 5/8	12 5/8	10 5/16	1 1/4	1/16



## Galvanized Steel Blower Wheels



### Applications

- Condensers, draft boosters, flue exhaust, small appliances, furnaces

### Features

- Rotation viewed side opposite hub

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM
<b>Packard</b>					
BW16039	3	1 7/8	CCW	1/4	5000
BW16038	3	1 7/8	CW	1/4	5000
<b>NEW</b> BW43425*	3.75	3.5	CCW	5/16	
			Hub End		
BW16044	3 13/16	2 1/2	CW	5/16	5000
BW16043	3 13/16	1 7/8	CW	5/16	5000
BW16042	3 13/16	1 7/8	CCW	5/16	5000
BW16045	3 13/16	2 1/2	CCW	5/16	5000
BW16041	3 13/16	1 7/8	CW	1/4	5000
BW16040	3 13/16	1 7/8	CCW	1/4	5000
BW16114	3 27/32	1 1/4	CW	1/4	5600
BW16113	3 27/32	1	CW	1/4	5800
BW16051	3 27/32	1 13/64	CCW	1/4	5640
A65048BW*	3.82	1.65	CW Hub End	5/16	
			End		
<b>NEW</b> BW16623*	4	1	CCW	1/4	
<b>NEW</b> BW16626*	4	2	CW	3/8	
BW16141	4	1 1/2	CCW	5/16	3600
A65569BW*	4	1 1/2	CCW	5/16	
BW16133	4	2 1/2	CCW	1/4	3600
BW16123	4	7/8	CW	5/16	3600
BW16046	4 1/4	2	CCW	1/4	4500
BW16052	4 1/4	2 15/16	CCW	1/4	4500
BW16047	4 1/4	2	CCW	5/16	4500
BW11046*	4 1/2	1.65	CCW	1/4	
BW16160	4 17/32	1 1/4	CW	5/16	6300
BW16161	4 17/32	1 1/4	CCW	5/16	6300
BW16048	4 23/32	2 15/16	CW	5/16	3600
BW16054	5 13/64	2 29/32	CCW	5/16	3600
BW16025	5 13/64	2 1/2	CCW	5/16	3600

\* BW43425 replaces Reznor 43525  
 A65048BW replaces Carrier LA11XA048  
 BW16623 replaces York 026-32623-700 | Stainless Steel  
 BW16626 replaces York 026-32626-700 | Stainless Steel  
 A65569BW replaces Carrier LA11AA005  
 BW11046 replaces Carrier LAXA046

Item ID	Dia. (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM
<b>Packard</b>					
BW16053	5 13/64	2 29/32	CW	5/16	3600
BW16024	5 13/64	2 1/2	CW	5/16	3600
BW16549*	5 1/4	1	CW	5/16	
BW16548*	5 3/4	1	CW	5/16	
BW16026	5 45/64	2 15/16	CCW	5/16	3000
BW16002	5 45/64	4	CW	1/2	2800
BW16057	5 45/64	4	CCW	1/2	2800
BW16143	5 3/4	1 1/2	CCW	5/16	3600
BW16058	6	3 1/4	CW	1/2	2400
BW16010	6	3 1/4	CCW	1/2	2400
BW16060	6 3/16	2 15/16	CCW	3/8	3000
BW16064	6 25/64	4	CCW	1/2	1700
BW16063	6 25/64	4	CW	1/2	1700
BW16005	7 1/8	4	CCW	1/2	1500
BW16066	7 1/8	2	CCW	5/16	2900
BW16070	7 31/64	3 1/2	CW	1/2	1800
BW16071	7 31/64	3 1/2	CCW	1/2	1800
A60200BW*	7 11/16	8	CW	1/2	
BW16006	8 5/64	4	CW	1/2	1650
BW16074	8 5/64	4	CCW	1/2	1650
BW16077	8 35/64	3	CCW	1/2	2050
BW16008	9 1/8	5	CW	1/2	1350
BW16007	9 1/8	4 1/4	CW	1/2	1475
BW16009	9 1/8	5	CCW	1/2	1350
BW16079	9 31/32	4	CW	1/2	1350
BW16080	9 31/32	4	CCW	1/2	1350
BW16027	9 31/32	6	CW	1/2	1100
BW16028	9 31/32	6	CCW	1/2	1100

\* BW16549 replaces Carrier LA21RB549  
 BW16548 replaces Carrier LA21RB548  
 A60200BW replaces First Company W200

## Plastic Blower Wheels And Impellers



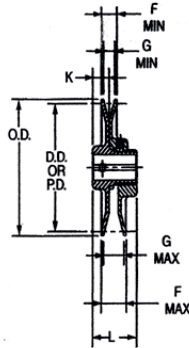
Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
<b>Packard</b>					
A65900	1/4	5 3/4	2	D Shape	Nutone 59000A000



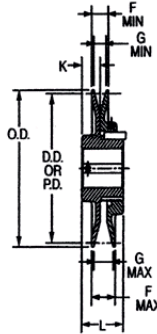
Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
<b>Packard</b>					
A65100FB	7/32	4 9/16	—	D Shape	Nutone 68920
A65216FB	3/16	4 1/2	—	D Shape	
A64031FB	0.181	4 1/2	—	Round	



## Stock PVP Variable Pitch Single Groove Pulleys



Type 1



Type 2

**Features**

- Fitted with hollow head set screws.
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

Item ID	Type	O.D. (In.)	3L Belts			4L or A Belts				5L or B Belts				5V Belts				Stock Bore (In.)	Replaces Browning	
			Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Pitch	Min. Turns Open	Max. Pitch			Max. Turns Open
<b>Packard</b>																				
PVP3012	1	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	—	—	—	—	1/2	1VP30 X 1/2
PVP3412	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	1/2	1VP34 X 1/2
PVP3458	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	5/8	1VP34 X 5/8
PVP3478	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	7/8	1VP34 X 7/8
PVP4012	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	1/2	1VP40 X 1/2
PVP4034	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	3/4	1VP40 X 3/4
PVP4058	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	5/8	1VP40 X 5/8
PVP4078	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	7/8	1VP40 X 7/8
PVP4412	1	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	1/2	1VP44 X 1/2
PVP4458	1	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	5/8	1VP44 X 5/8
PVP4478	2	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	7/8	1VP44 X 7/8
PVP44118	2	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	1 1/8	1VP44 X 1 1/8
PVP5012	1	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	1/2	1VP50 X 1/2
PVP5058	1	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	5/8	1VP50 X 5/8
PVP5078	2	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	7/8	1VP50 X 7/8
PVP50118	2	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	1 1/8	1VP50 X 1 1/8
PVP5658	1	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	5/8	1VP56 X 5/8
PVP5678	2	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	7/8	1VP56 X 7/8
PVP56118	2	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	1 1/8	1VP56 X 1 1/8
PVP6078	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	7/8	1VP60 X 7/8
PVP60118	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	1 1/8	1VP60 X 1 1/8
PVP60138	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	1 3/8	1VP60 X 1 3/8
PVP65118	2	6.5	—	—	—	—	4.7	5	5.7	0	4.8	6	6.0	0	5.2	6	6.4	0	1 1/8	1VP65 X 1 1/8
PVP68118	2	6.55	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1	5.9	6	6.9	1	1 1/8	1VP68 X 1 3/8
PVP75138	2	7.5	—	—	—	—	5.7	5	6.7	0	5.8	6	7.0	0	6.2	6	7.4	0	1 3/8	1VP75 X 1 3/8

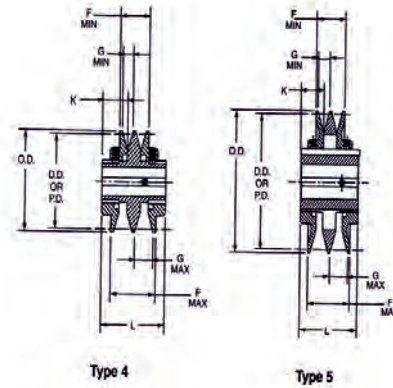
## Stock P2VP Variable Pitch Double Groove Pulleys

### Features

- Fitted with hollow head set screws
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

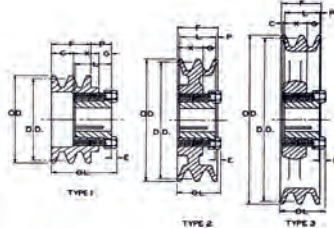


Item ID	Type	Diameter (In.)		Replaces Browning
		O.D.	Stock Bore (In.)	
<b>Packard</b>				
P2VP3658	4	3.35	5/8	2VP36 X 5/8
P2VP3678	4	3.35	7/8	2VP36 X 7/8
P2VP4258	4	3.95	5/8	2VP42 X 5/8
P2VP4278	4	3.95	7/8	2VP42 X 7/8
P2VP42118	4	3.95	1 1/8	2VP42 X 1 1/8
P2VP5058	5	4.75	5/8	2VP50 X 5/8
P2VP5078	5	4.75	7/8	2VP50 X 7/8
P2VP50118	5	4.75	1 1/8	2VP50 X 1 1/8
P2VP5678	5	5.35	7/8	2VP56 X 7/8
P2VP56118	5	5.35	1 1/8	2VP56 X 1 1/8
P2VP60118	5	6	1 1/8	2VP60 X 1 1/8
P2VP60138	5	6	1 3/8	2VP60 X 1 3/8
P2VP62118	5	6	1 1/8	2VP62 X 1 1/8
P2VP65118	5	5.95	1 1/8	2VP65 X 1 1/8
P2VP68118	5	6.50	1 1/8	2VP68 X 1 1/8



Item ID	3L Belts				4L or A Belts				5L or B Belts				5V Belts			
	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open
<b>Packard</b>																
P2VP3658	1.9	4	2.7	0	2	5	3	0	2.5	5	3.3	1	—	—	—	—
P2VP3678	1.9	4	2.7	0	2	5	3	0	2.5	5	3.3	1	—	—	—	—
P2VP4258	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP4278	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP42118	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP5058	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP5078	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP50118	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP5678	3.9	4	4.7	0	4	5	5	0	4.3	6	5.3	1	—	—	—	—
P2VP56118	3.9	4	4.7	0	4	5	5	0	4.3	6	5.3	1	—	—	—	—
P2VP60118	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—
P2VP60138	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—
P2VP62118	4.5	4	5.3	0	4.6	5	5.6	0	4.9	6	5.9	1	5.3	6	6.3	1
P2VP65118	—	—	—	—	4.7	5	5.7	0	4.8	6	6	0	5.2	6	6.4	0
P2VP68118	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1	5.9	6	6.9	1

## Two Groove Pulleys For 4L Or A Belts

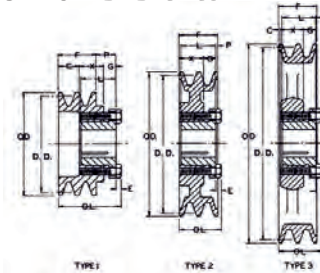


**Features**

- 3L belts may be used with these pulleys.

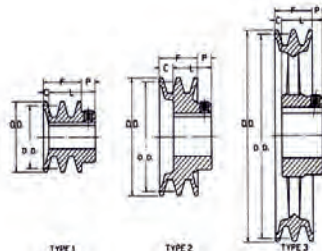
Item ID	Diameter (In.)			Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A	Pitch 3L		O.L.	F	L	P	C	X	G	E	
<b>Packard</b>													
P2AK30H	3.05	2.8	2.46	1	2 7/16	1 3/8	1 1/4	7/8	15/16	7/8	7/16	3/16	2AK30H
P2AK39H	3.75	3.5	3.16	1	2	1 3/8	1 1/4	7/8	1/2	7/8	7/16	3/16	2AK39H
P2AK46H	4.45	4.2	3.86	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK46H
P2AK54H	5.25	5.0	4.66	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK54H
P2AK56H	5.45	5.2	4.86	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK56H

## Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts



Item ID	Diameter (In.)			Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A	Datum B		O.L.	F	L	P	C	X	G	E	
<b>Packard</b>													
P2BK32H	3.35	2.6	3	1	2 13/16	1 3/4	1 1/4	7/8	5/16	7/8	7/16	3/16	2BK32H
P2BK80H	7.75	7.0	7.4	3	1 3/4	1 3/4	1 1/4	7/16	7/8	7/8	7/16	3/16	2BK80H
P2BK100H	9.75	9.0	9.4	3	1 3/4	1 3/4	1 1/4	7/16	7/8	7/8	7/16	3/16	2BK100H

## Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts

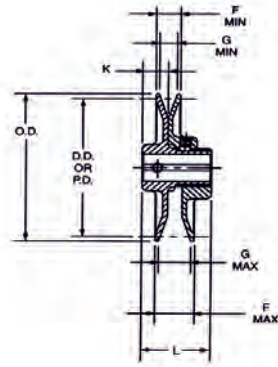


**Features**

- Packard drive "P2BK" sheaves are accurately machined from grained cast iron, statically balanced, painted and individually packaged. They are furnished with standard keyway and hollow head set screws.

Item ID	Diameter (In.)			Type	Stock Bore (In.)	Dimensions (In.)				Replaces Browning
	O.D.	Datum A	Datum B			F	L	P	C	
<b>Packard</b>										
P2BK2558	2.6	2	2.4	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK2558
P2BK3058	3.15	2.4	2.8	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK3058
P2BK34118	3.55	2.8	3.2	1	1 1/8	1 3/4	1 31/32	15/32	1/4	2BK34118
P2BK3658	3.75	3	3.4	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK3658
P2BK4058	3.95	3.2	3.6	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK4058
P2BK4558	4.25	3.5	3.9	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK4558
P2BK5058	4.75	4	4.4	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK5058
P2BK5558	5.25	4.5	4.9	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK5558

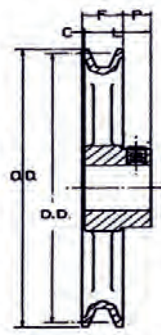
## PVL Variable Pitch Pulleys



Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	O.D. (In.)	3L Belts				4L or A Belts				5L or B Belts				Stock Bore (In.)	Replaces Browning
		Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Turns Open	Min. Datum	Max. Datum	Max. Turns Open		
<b>Packard</b>															
PVL2512	2.5	1.6	4	2.4	0	—	—	—	—	—	—	—	—	1/2	1VL25 X 1/2
PVL2558	2.5	1.6	4	2.4	0	—	—	—	—	—	—	—	—	5/8	1VL25 X 5/8
PVL3012	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	1/2	1VL30 X 1/2
PVL3058	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	5/8	1VL30 X 5/8
PVL3412	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	1/2	1VL34 X 1/2
PVL3434	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	3/4	1VL34 X 3/4
PVL3458	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	5/8	1VL34 X 5/8
PVL4012	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	1/2	1VL40 X 1/2
PVL4034	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	3/4	1VL40 X 3/4
PVL4058	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	5/8	1VL40 X 5/8
PVL4078	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	7/8	1VL40 X 7/8
PVL4412	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	1/2	1VL44 X 1/2
PVL4434	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	3/4	1VL44 X 3/4
PVL4458	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	5/8	1VL44 X 5/8
PVL4478	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	7/8	1VL44 X 7/8

## PAL Pulleys For 4L Or A Belts



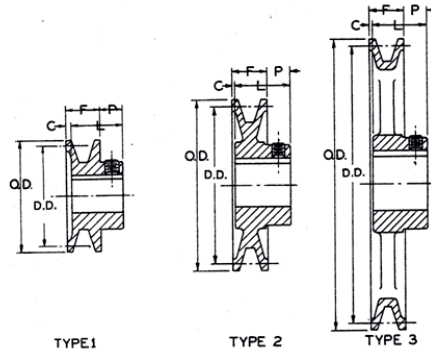
Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	Diameter (In.)		Stock Bore (In.)	Dimensions (In.)			Replaces Browning
	O.D.	Pitch		F	P	L	
<b>Packard</b>							
PAL5434	4.93	4.78	3/4	19/32	15/32	1 1/16	AL5434
PAL5458	4.93	4.78	5/8	19/32	15/32	1 1/16	AL5458
PAL6434	5.93	5.78	3/4	19/32	15/32	1 1/16	AL6434
PAL6458	5.93	5.78	5/8	19/32	15/32	1 1/16	AL6458
PAL641	5.93	5.78	1	19/32	15/32	1 1/16	AL641
PAL7434	6.93	6.78	3/4	19/32	15/32	1 1/16	AL7434
PAL741	6.93	6.78	1	19/32	15/32	1 1/16	AL741
PAL8434	7.93	7.78	3/4	19/32	15/32	1 1/16	AL8434
PAL841	7.93	7.78	1	19/32	15/32	1 1/16	AL841
PAL9434	8.93	8.78	3/4	19/32	15/32	1 1/16	AL9434
PAL941	8.93	8.78	1	19/32	15/32	1 1/16	AL941
PAL1041	9.93	9.78	1	19/32	15/32	1 1/16	AL1041
PAL11434	10.93	10.78	3/4	19/32	15/32	1 1/16	AL11434
PAL1141	10.93	10.78	1	19/32	15/32	1 1/16	AL1141
PAL12434	11.93	11.78	3/4	19/32	15/32	1 1/16	AL12434
PAL1241	11.93	11.78	1	19/32	15/32	1 1/16	AL1241

• Do not use "A" Gripnotch Belt Ratings with "AL" or "AM" sheaves.



## Single Groove Pulleys For 4L Or A Belts



### Features

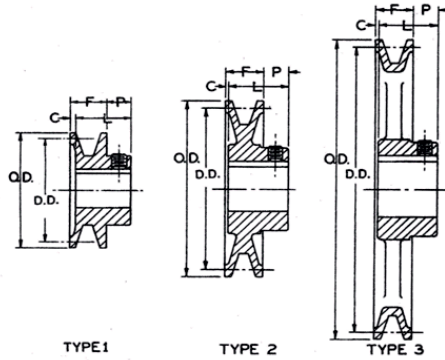
- PACKARD DRIVE "PAK" pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- Furnished with standard keyway and hollow head set screws.
- 3L belts may be used with these pulleys.

Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	Diameter (In.)			Type	Stock Bore (In.)	Dimensions (In.)				Replaces Browning
	O.D.	Datum A	Pitch 3L			F	L	P	C	
<b>Packard</b>										
PAK1712	1.75	1.5	1.16	1	1/2	21/32	15/16	7/16	5/32	AK1712
PAK1758	1.75	1.5	1.16	1	5/8	21/32	15/16	7/16	5/32	AK1758
PAK2012	2	1.8	1.46	1	1/2	21/32	15/16	7/16	5/32	AK2012
PAK2058	2	1.8	1.46	1	5/8	21/32	15/16	7/16	5/32	AK2058
PAK2212	2.2	2	1.66	1	1/2	21/32	15/16	7/16	5/32	AK2212
PAK2258	2.2	2	1.66	1	5/8	21/32	15/16	7/16	5/32	AK2258
PAK2312	2.3	2.1	1.76	1	1/2	21/32	15/16	7/16	5/32	AK2312
PAK2358	2.3	2.1	1.76	1	5/8	21/32	15/16	7/16	5/32	AK2358
PAK2512	2.5	2.3	1.96	2	1/2	21/32	15/16	7/16	5/32	AK2512
PAK2558	2.5	2.3	1.96	2	5/8	21/32	15/16	7/16	5/32	AK2558
PAK2712	2.7	2.5	2.16	2	1/2	21/32	15/16	7/16	5/32	AK2712
PAK2758	2.7	2.5	2.16	2	5/8	21/32	15/16	7/16	5/32	AK2758
PAK3012	3.05	2.8	2.46	2	1/2	21/32	15/16	7/16	5/32	AK3012
PAK3058	3.05	2.8	2.46	2	5/8	21/32	15/16	7/16	5/32	AK3058
PAK3034	3.05	2.8	2.46	2	3/4	21/32	15/16	7/16	5/32	AK3034
<b>NEW</b> PAK3258	3.25	3	2.66	2	5/8	21/32	15/16	7/16	5/32	AK3258
PAK3412	3.45	3.2	2.86	2	1/2	21/32	15/16	7/16	5/32	AK3412
PAK3458	3.45	3.2	2.86	2	5/8	21/32	15/16	7/16	5/32	AK3458
PAK3478	3.45	3.2	2.86	2	7/8	21/32	15/16	7/16	5/32	AK3478
PAK3958	3.75	3.5	3.16	2	5/8	3/4	1 5/32	15/32	1/16	AK3958
PAK4158	3.95	3.7	3.36	2	5/8	3/4	1 5/32	15/32	1/16	AK4158
PAK4178	3.95	3.7	3.36	2	7/8	3/4	1 5/32	15/32	1/16	AK4178
PAK4458	4.25	4	3.66	3	5/8	3/4	1 5/32	15/32	1/16	AK4458
PAK4658	4.45	4.2	3.86	3	5/8	3/4	1 5/32	15/32	1/16	AK4658
PAK5158	4.95	4.7	4.36	3	5/8	3/4	1 5/32	15/32	1/16	AK5158
PAK5178	4.95	4.7	4.36	3	7/8	3/4	1 5/32	15/32	1/16	AK5178
PAK5634	5.45	5.2	4.86	3	3/4	3/4	1 5/32	15/32	1/16	AK5634
PAK5978	5.75	5.5	5.16	3	7/8	3/4	1 5/32	15/32	1/16	AK5978
PAK6158	5.95	5.7	5.36	3	5/8	3/4	1 5/32	15/32	1/16	AK6158
PAK8934	8.75	8.5	8.16	3	3/4	3/4	1 15/32	23/32	0	AK8934

• Do not use PAK sheaves with bores 1" and under with cogged belt ratings.

## Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts



### Features

- PACKARD DRIVE "PBK" pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- Furnished with standard keyway and hollow head set screws.

Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	Diameter (In.)			Type	Stock Bore (In.)	Dimensions (In.)				Replaces Browning
	O.D.	Datum A	Datum B			F	L	P	C	
<b>Packard</b>										
PBK2558	2.5	1.9	2.3	1	5/8	13/16	1 1/16	13/32	5/32	BK2558
PBK2758	2.7	2.1	2.5	2	5/8	13/16	1 1/16	13/32	5/32	BK2758
PBK2812	2.95	2.2	2.6	2	1/2	13/16	1 1/16	13/32	5/32	BK2812
PBK2858	2.95	2.2	2.6	2	5/8	13/16	1 1/16	13/32	5/32	BK2858
PBK2878	2.95	2.2	2.6	2	7/8	13/16	1 1/16	13/32	5/32	BK2878
PBK3012	3.15	2.4	2.8	2	1/2	13/16	1 1/16	13/32	5/32	BK3012
PBK3058	3.15	2.4	2.8	2	5/8	13/16	1 1/16	13/32	5/32	BK3058
PBK3258	3.35	2.6	3	2	5/8	13/16	1 1/16	13/32	5/32	BK3258
PBK3234	3.35	2.6	3	2	3/4	13/16	1 1/16	13/32	5/32	BK3234
PBK3278	3.35	2.6	3	2	7/8	13/16	1 1/16	13/32	5/32	BK3278
PBK3412	3.55	2.8	3.2	2	1/2	7/8	1 5/32	13/32	1/8	BK3412
PBK3458	3.55	2.8	3.2	2	5/8	7/8	1 5/32	13/32	1/8	BK3458
PBK3658	3.75	3	3.4	2	5/8	7/8	1 5/32	13/32	1/8	BK3658
PBK4058	3.95	3.2	3.6	2	5/8	7/8	1 5/32	13/32	1/8	BK4058
PBK4078	3.95	3.2	3.6	2	7/8	7/8	1 5/32	13/32	1/8	BK4078
PBK4758	4.45	3.7	4.1	2	5/8	7/8	1 5/32	13/32	1/8	BK4758
PBK5278	4.95	4.2	4.6	3	7/8	7/8	1 5/32	13/32	1/8	BK5278
PBK6058	5.75	5	5.4	3	5/8	7/8	1 5/32	13/32	1/8	BK6058
PBK6034	5.75	5	5.4	3	3/4	7/8	1 5/32	13/32	1/8	BK6034
PBK6078	5.75	5	5.4	3	7/8	7/8	1 5/32	13/32	1/8	BK6078
PBK6234	5.95	5.2	5.6	3	3/4	7/8	1 5/32	13/32	1/8	BK6234
PBK6534	6.25	5.5	5.9	3	3/4	7/8	1 5/32	13/32	1/8	BK6534
PBK7534	7.25	6.5	6.9	3	3/4	7/8	1 15/32	21/32	1/16	BK7534

• Do not use PBK sheaves with bores 1" and under with cogged belt ratings.

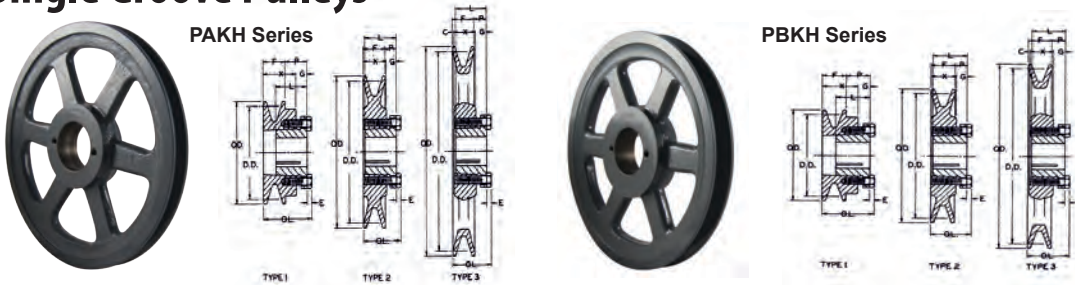
## Stock "PH" Bushings



Stock Spline Bores
0.978 - 10 Inv
1 1/8 - 6B
1 3/8 - 6B
1 3/8 - 21 Inv

Item ID	Stock Bore (In.)	Key Way
<b>Packard</b>		
PH12	1/2	1/8 x 1/16
PH58	5/8	3/16 x 3/32
PH34	3/4	3/16 x 3/32
PH1316	13/16	3/16 x 3/32
PH78	7/8	3/16 x 3/32
PH1	1	1/4 x 1/8
PH118	1 1/8	1/4 x 1/8
PH114	1 1/4	1/4 x 1/16
PH138	1 3/8	5/16 x 1/16

## Single Groove Pulleys



**Features**  
 • 3L belts may be used with these pulleys.

Item ID	Diameter (In.)			Type	Dimensions (In.)									Replaces Browning
	O.D.	Datum A	Pitch 3L		O.L.	F	L	P	C	X	G	E		
<b>Packard Single Groove Pulleys For 4L Or A Belts</b>														
PAK30H	3.05	2.8	2.46	1	1 13/16	3/4	1 1/4	7/8	—	1 3/16	7/16	3/16	AK30H	
PAK39H	3.75	3.5	3.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK39H	
PAK41H	3.95	3.7	3.36	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK41H	
PAK44H	4.25	4	3.66	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK44H	
PAK49H	4.75	4.5	4.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK49H	
PAK51H	4.95	4.7	4.36	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK51H	
PAK54H	5.25	5	4.66	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK54H	
PAK56H	5.45	5.2	4.86	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK56H	
PAK59H	5.75	5.5	5.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK59H	
PAK61H	5.95	5.7	5.36	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK61H	
PAK64H	6.25	6	5.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK64H	
PAK66H	6.45	6.2	5.86	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK66H	
PAK71H	6.95	6.7	6.36	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK71H	
PAK74H	7.25	7	6.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK74H	
PAK79H	7.75	7.5	7.16	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK79H	
PAK84H	8.25	8	7.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK84H	
PAK114H	11.25	11	10.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK114H	
PAK124H	12.25	12	11.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK124H	

Item ID	Diameter (In.)			Type	Dimensions (In.)									Replaces Browning
	O.D.	Datum A	Datum B		O.L.	F	L	P	C	X	G	E		
<b>Packard Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts</b>														
PBK30H	3.15	2.4	2.8	1	1 15/16	7/8	1 1/4	7/8	—	1 5/16	7/16	3/16	BK30H	
PBK32H	3.35	2.6	3	1	1 15/16	7/8	1 1/4	7/8	—	1 5/16	7/16	3/16	BK32H	
PBK34H	3.55	2.8	3.2	1	1 15/16	7/8	1 1/4	7/16	—	1 5/16	7/16	3/16	BK34H	
PBK36H	3.75	3	3.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK36H	
PBK40H	3.95	3.2	3.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK40H	
PBK45H	4.25	3.5	3.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK45H	
PBK47H	4.45	3.7	4.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK47H	
PBK50H	4.75	4	4.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK50H	
PBK52H	4.95	4.2	4.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK52H	
PBK55H	5.25	4.5	4.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK55H	
PBK57H	5.45	4.7	5.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK57H	
PBK60H	5.75	5	5.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK60H	
PBK62H	5.95	5.2	5.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK62H	
PBK65H	6.25	5.5	5.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK65H	
PBK67H	6.45	5.7	6.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK67H	
PBK70H	6.75	6	6.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK70H	
PBK72H	6.95	6.2	6.6	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK72H	
PBK75H	7.25	6.5	6.9	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK75H	
PBK77H	7.45	6.7	7.1	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK77H	
PBK80H	7.75	7	7.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK80H	
PBK85H	8.25	7.5	7.9	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK85H	
PBK90H	8.75	8	8.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK90H	
PBK100H	9.75	9	9.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK100H	
PBK120H	11.75	11	11.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK120H	
PBK130H	12.75	12	12.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK130H	
PBK140H	13.75	13	13.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK140H	
PBK150H	14.75	14	14.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK150H	
PBK160H	15.75	15	15.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK160H	



## PROFITABILITY MATTERS

**NEVER UNDERESTIMATE THE POWER  
OF HAVING THE RIGHT ACCESSORY.**

With HVACR repairs, having the right accessories can help you and your technicians save money and make money by providing flexible options when replacing expensive OEM designs.

Carrying a robust accessory line can also help you bundle your sales by offering your technicians everything they need to complete their jobs.



# ACCESSORIES | Submersible Dewatering Pump

## Non-clogging Electric Submersible Dewatering Pump



### Features

- Single Phase
- 14.2 lbs.
- Uses a patented "free flow design cylinder" technology.
- Limitless applications: mud, debris, gravel, sediment, or sludge
- Manufactured using corrosion resistant material
- Requires no assembly or tools and very little maintenance.
- Will not clog or run dry

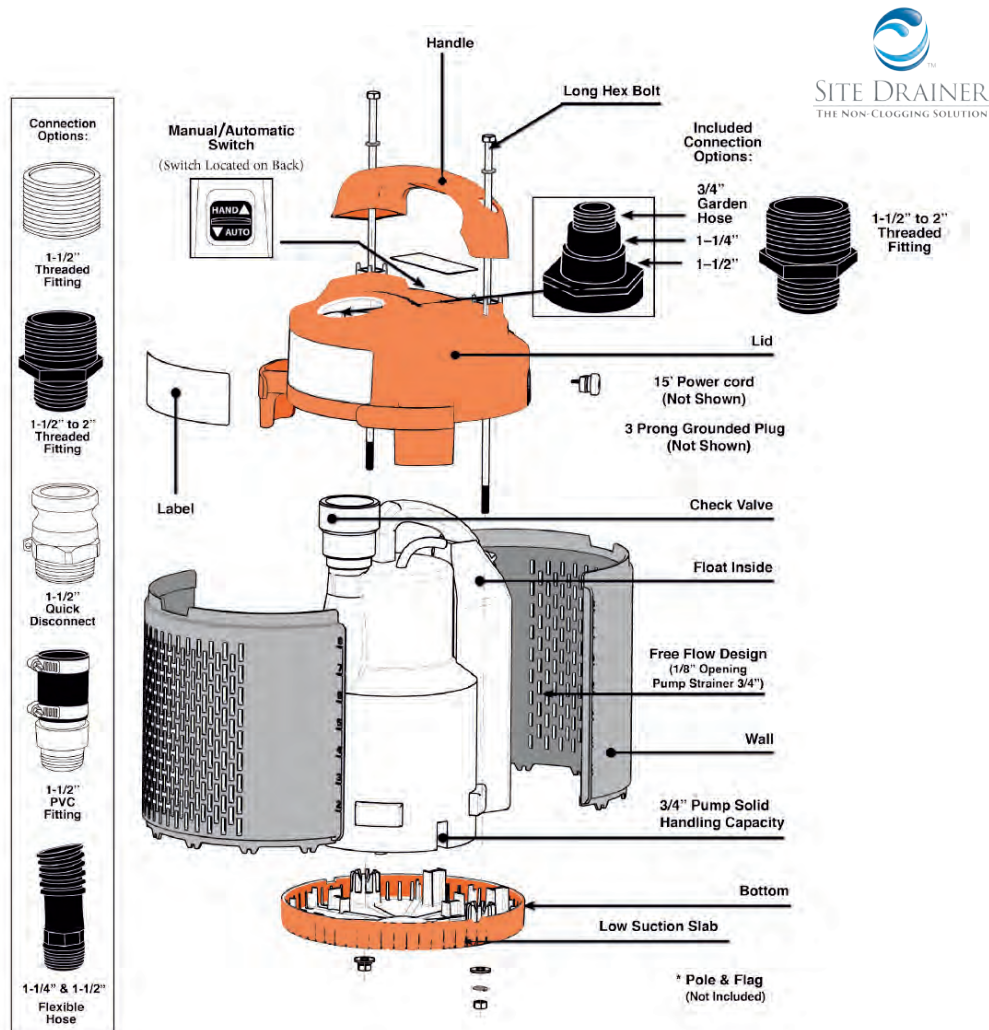


Scan to  
Learn More

Item ID	H.P.	Volts	Amps	Discharge
SD300	1/2	115	5.09	3/4" - 1 1/2"

HEAD	32'	30'	25'	20'	15'	10'	5'
GPM	—	5	20	35	47	57	65
GPH	—	300	1,200	2,100	2,820	3,420	3,900





## ECM Motor Tester



**Application**  
For use with ECM Motors

**Features**

- Analyzes GE ECM motors independent of the HVAC system
- Test basic settings of Fan-only, Heating, Cooling, Dehumidify and Variable Speed
- Detect and isolate motor failures from HVAC system failures

Item ID  
**GA447**

Brand  
FASCO

## Conduit Box with Adjustable Bracket



Item ID: TACBB1  
For use on 48 & 42 Frame Motors

**Features**

- Encloses Electrical Connections
- Includes Adjustable Bracket

## Flex Mount Brackets



**Features**

- 3-Leg Torsion-Flex Brackets
- Designed to effectively isolate and prevent torsional vibrations from reaching blower housing and causing noise.
- No preassembly; bracket clamps to motor shell. Includes 3 Grommets, 1 Bolt, 1 Nut, 3 Steel Washers

Item ID	Diameter (In.)
TFM50	5
TFM55	5 5/8

## Four Leg Torsion Flex Mount Bracket



**Application**

For use with 5 5/8" Diameter Motors

**Features**

- Helps isolate and prevent torsional vibrations from reaching blower housing and causing noise.

Item ID	Diameter (In.)
TFM554	5 5/8

## Flex Mount Bracket Adjustable Diameter



**Application**

For use with 5" or 5 5/8" Diameter Motors

**Features**

- Plastic insert allows you to adjust for 5" or 5.5" diameter.
- 3-Leg Torsion-Flex Brackets
- Designed to effectively isolate and prevent torsional vibrations from reaching blower housing and causing noise.
- No preassembly; bracket clamps to motor shell. Plastic inserts supplied for adapting bracket to NEMA 42 frame.

Item ID	Diameter (In.)
TFM556	5 or 5 5/8



## Mounting Brackets



**Application**  
Used to mount motor to blower housing

**Features**  
• Kit includes: steel bracket with 3 welded legs, 3 steel sleeves, & 3 sets of rubber grommets.

Item ID	Diameter (In.)	Frame
A60042	5	42
A60048	5 5/8	48

## Mounting Brackets



A80293, A80295



KIT50L



KIT55L

Item ID	Diameter (In.)	Bolt Circle	Brand
A80293	5.5	6 7/8 - 8 1/8	Packard
A80295*	5.5	8 1/8 - 12 1/8	Packard
KIT50L*	4.4 & 5	6 1/2 - 11 1/2	Fasco
KIT55L*	5.5	8 1/8 - 12 1/8	Fasco

**Notes:**  
\*Has extended lugs

## Universal Lug Mounting Bracket



**Application**  
For use with 5 5/8" Diameter Motors

**Features**  
• Two mounting options. Small slots accepts 1/4" bolt. Large hole accepts 3/4" Rubber Grommet Kit (A60049K).

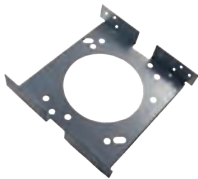
Item ID	Diameter (In.)
1410A	5 5/8

## Unit Bearing Mounting Bracket



Item ID	Shaft Height (In.)	Bracket Height (In.)
A11601	4 1/8	2 7/32
A11602	4 9/16	2 41/64
A11603	5 3/8	3 29/64
A11605	6 1/4	4 5/16

## Motor Mounting Bracket for Rheem



**Features**  
• Butt-Mount Bracket  
• Galvanized stamped-steel bracket mounts 5-5/8" diameter motors in Rheem-Ruud condensing units  
• For NEMA 48 frame motors

Item ID	Brand	Replaces
A60306K	Packard	Rheem AS-55306-02

## FLEX Mounting Bracket for Rheem



**Application**  
Replaces mounting bracket on direct-drive blowers in Rheem furnaces.

**Features**  
• Torsion-Flex Bracket Kit  
• Includes 4 brackets and 8 mounting screws

Item ID	Brand	Replaces
A61698K	Packard	Rheem AE-61698-01 AE-61698-02

## Bracket Adapter for Trane

**NEW**



### Application

Bracket to Adapt 48 Frame Motors to Trane Cap-Can Motor Mounting

### Features

- Includes bracket and 8 bolts

Item ID	Brand
TR001	Packard

Replace an OEM Cap Can Motor Mount Design



with a Standard 48-frame Motor and TR001 Bracket



## Mounting Kit



### Features

- Holes for 4.4" and 5.6" diameter motors.
- One kit will adapt both ends of motor for base mounting

Item ID	Brand
KIT200	Fasco

## Unit Bearing Motor Bracket



### Features

- Adjustable for motor shaft height 4-1/8" to 5-3/8"
- Includes 2 studs and bracket

Item ID	Brand
A68004	Packard

## Motor Bracket

**NEW**



### Features

- Bracket for 48 Frame Motor in York Units
- 5.5 mounting bracket
- 11 bolt circle dia.
- Kit includes: bracket with 3 welded legs, rubber grommets and mounting hardware.

Item ID	Brand	Replaces
A60459	Packard	York 326-31459-000 York 02626372000, York 37308073700, York 3730807300

## Evergreen Belly Band Mounting Kit



Item ID	Mounting I.D. (In.)
5K003	10
5K004	11
5K005	13

## End Frame Length Adapter Kit

**NEW**



Item ID: 615059-001

### Features

- Use on 5" & 5 1/2" Century-extended through bolt motors to gain additional length to fit in old base.
- Kit contains adapter plate with mounthing ring, 4 split rings, 8 nuts and 4 lock washers
- Fits 5" motors with a 90 degree bolt pattern and 5 1/2" motors with 60-120 degree and 90 degree bolt patterns.



## Fasco Bases



NOTE: The base numbering system uses the first two numbers to indicate shaft height (30 is 3.0" and 35 is 3.5") and the last three numbers represent distance between cradle arms (386 is 3.86" etc.).

Example: B35417 has a 3.5" shaft height and 4.17" cradle base.

To achieve the shaft height listed, the 2 1/2" diameter rings must be used.

\*B dimension is the mounting dimension between mounting rings, center to center

Cradle Base "B" Dimension	3.54	3.86	4.08	4.17	4.35	4.61	4.79	4.92	5.17	5.42	5.58	5.95	7.05
3" Shaft Height	B30354	B30386	B30408	B30417	B30435	B30461	B30479	B30492	B30517	B30542	B30558	B30595	B30705
3 1/2" Shaft Height	B35354	B35386	B35408	—	B35435	B35461	B35479	B35492	B35517	B35542	B35558	B35595	B35705

## Condenser Fan Rainshield



### Features

- Fits NEMA 42, 48 or 56 frame motors
- Disc Type

Item ID	Dimensions (In.)	
	Bore Dia.	O.D.
A61000	1/2	6.88
A61056	5/8	6.88

## Condenser Fan Rainshield Deep Dish Style



### Features

- Made of phenolic with internal cooling fins for increased motor efficiency

Item ID	Dimensions (In.)	
	Bore Dia.	O.D.
A80105	1/2	7

## Rainshields - Plastic Deep Dish Style



### Application

Fits NEMA 42, 48 or 56 frame motors

Item ID	Dimensions (In.)	
	Bore Dia.	O.D.
1411A	1/2	7
1412A	5/8	7

## Shaft Adapters



### Features

- 5 per package

Item ID	Dimensions (In.)		
	I.D.	O.D.	Length
A80427K	1/4	5/16	1.00
A80513K	5/16	3/8	1.00
A80082K	3/8	1/2	1.00
A60097K *	1/2	5/8	1.50

\* Split bushing with key.

## Shaft Extension Kits



### Features

- Includes shaft coupler & shaft

Item ID	Diameter	Length
A61308K	1/4"	4 1/2"
A61310K	5/16"	4 1/2"
A61475K	1/2"	4 1/2"

## Shaft Adapter



**Features**

- Used on unit bearing motors

Item ID	I.D. (In.)	Length (In.)
A60098	1/4	1

## Shafts

**Features**

- SAE 1018 Cold Rolled Steel
- Ground and Polished



Item ID	Diameter (In.)	Length (In.)
S38220501	5/8	20
S38209601	3/4	20
S38269301	3/4	35
S38209501	1	25
S38249201	1	35

## Rubber Grommet Kit



**Features**

- Used for 3/4 inch slots. Sheet metal screws and sleeves included. 3 per package.

Item ID	Brand
A60049K	Packard

## Rubber Grommet Kit



**Features**

- Used for 1/2 inch slots. 6 per package.

Item ID	Brand
A60047K	Packard

## Resilient Mounting Rings

**Application**

For Mounting 48 Frame Motors in Rheem Condenser Units

**Features**

- 2 per package



Item ID	Hub Ring Diameter (in.)
1182A	2 1/2



Item ID	Hub Ring Diameter (in.)
1220A	2 1/4
1255A	1 3/4

## Rubber Vibration Insulators

**Application**

Eliminates noise and excessive vibration  
Used for motors, compressors, fans, pumps, etc.



**Features**

- Used on Coleman motors
- 4 per package

Item ID	Stud Dimension (In.)
A61519K	3/8 x 8-32 x 3/8



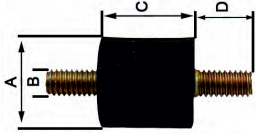
## Rubber Vibration Insulators

### Application

Eliminates noise and excessive vibration  
Used for motors, compressors, fans, pumps, etc.

### Features

- 4 per package



Item ID	Dimension (In.)			
	A-Insulator Diameter	B-Screw Diameter	C-Insulator Width	D-Screw Length
A67804K	1	5/16	1	5/8
A67805K	1	1/4	3/4	1/2

## Rheem Mounting Cables



### Features

- 4 per package

Item ID	Length (In.)	For Motor H.P.
A60325K	3 1/4	1/6
A60350K	3 1/2	1/4
A60378K	3 7/8	1/3

## Speed Controls



### Features

- Solid State. Infinitely variable adjustment for single speed fan and blowers, kitchen appliances, etc.
- Use only with shaded pole and PSC motors
- UL Listed

Item ID	Max Amps	Volts	Mounting	Size (In.)
1233A	5	120	Wall	4 1/4 x 2
1234A	4	120	Panel	
1407A	5	240	Wall	4 1/4 x 2
1408A	10	120	Wall	4 1/2 x 4 1/2

## Conduit Box



### Application

For universal design motors with conduit connector holes only

### Features

- Mounts on one of the extended motor stud bolts

Item ID	Motor Diameter (In.)
KIT142	3.3
KIT144	4.4-5.0-5.6

## Conduit Kit



### Features

- 3/8" Conduit Connector
- Allen Stevens type, complete with mounting screws.
- Packaged three per kit.

Item ID	Brand
A60102	Packard

## Conduit Fitting



### Application

For 4 5/16" diameter motors

### Features

- Two-Piece—Stamped Steel 5 Pack

Item ID	Brand
1202A	Century

## 90 Degree Plug and Cord



### Features

- Used with unit bearing motors: plug and cord assembly
- UL Recognized

Item ID	Length (In.)
PLUG018	25

## Straight Plug and Cord



### Features

- Used with unit bearing motors: plug and cord assembly
- UL Recognized

Item ID	Length (In.)
PLUG119	25

## Anti-Wind Brakes



### Features

- Used to stop wind milling of rooftop motors

Item ID	Diameter (In.)
A60012	1/2
A60058	5/8

## Pitch Gauge



### Features

- To aid in determining pitch of the fan blade

Item ID	Brand
PG5099801	Packard

## Fan Blade & Blower Wheel Puller



### Application

Removes fan blades and blower wheels from rusty shafts

Item ID	Brand
A89000	Packard

## Hubs With Set & Mounting Screws



Item ID	Bore	Set Screws
H60765801	1/4"	1
H60765803	3/8"	1
H60765804	1/2"	2
H60765805	5/8"	2
H60765806	3/4"	2

## Capacitor Mounting Kit



### Features

- Bracket dimension: 2 1/8" x 1 1/4" Cover dimension: 1 5/8"

Item ID	Brand
A60010	Packard

## Cap Guard



### Features

- Weather proofs capacitor connections by simply sliding on to the capacitor.
- Fits oval caps 2 thru 17.5MFD 370V and 2 thru 12.5MFD 440V.
- Sheet metal screws included

### Item ID

A60000

### Brand

Packard

## Capacitor Brackets



### Features

- For motor start capacitors
- 5 per package

### Item ID

A76501

### Capacitor Length (In.)

4 3/8

A76502

3 3/8

A76503

2 3/4

## Capacitor Brackets



### Features

- For round motor run capacitors
- 5 per package

### Item ID

A75400

### Diameter (In.)

1 3/4

A75500

2

A75600

2 1/2



### Features

- For oval motor run capacitors
- 5 per package

### Item ID

A75100

### Dimensions (In.) Width x Depth

1 5/16 x 2 5/32

A75200

1 29/32 x 2 29/32

A75300

1 31/32 X 3 21/32

## Capacitor End Caps - Top Lead Hole



### Features

- For motor start capacitors
- Leads exit through bracket
- 5 per package

### Item ID

A76611

### Diameter (In.)

1 7/16

A76612

1 13/16

A76613

2 1/16

A76614

2 9/16

## Capacitor End Caps - Bottom Lead Hole



### Features

- For motor start capacitors
- Leads exit opposite bracket
- 5 per package

### Item ID

A76601

### Diameter (In.)

1 7/16

A76602

1 13/16

A76603

2 1/16

A76604

2 9/16

## Capacitor Jumpers



### Features

- With 1/4" female terminals
- 10 per package

### Item ID

A63004

### Length (In.)

4

A63006

6

### Capacitor Resistor With 1/4" Female Terminals



- Features**
- With 1/4" female terminals
  - 10 per package

Item ID	OHMS	Watts
A63106	15000	2

### Capacitor Resistor



- Features**
- 10 per package

Item ID	OHMS	Watts
A63105	15000	2

### Rubber Boots



- Features**
- Lead protectors for motor run capacitors
  - 5 per package

Item ID	Hole Location
A76000	1 Hole on End
A76001	1 Hole on Top
A76002	2 Hole on Top
A76003	3 Hole on Side

### Digital Capacitor Tester



- Features**
- Range 2 MFD to 2000 MFD
  - Accuracy ±5%
  - Color coded test leads
  - Insulated rubber casing
  - 9 Volt battery included
  - Fuse protected

Item ID	Brand
CT1	Packard

## Fin Comb



**Application**  
Cleans and straightens fins

- Features**
- Adjustable to 4 sizes per wrench
  - Stainless steel teeth
  - Cushioned handle
  - Reversible

Item ID	Brand
PFC550	Packard

## Sand Screen



**Application**  
Used in preparation for brazing, soldering and epoxy repairs

Item ID	Roll Size
A52005	1 1/2" x 5 Yards
A52008	1 1/2" x 2 Yards
A52010	1 1/2" x 10 Yards
A52025	1 1/2" x 25 Yards

## Heat Gun



**Application**  
Used to defrost coils and frozen water pipes. To strip paint, remove adhesives, and many other uses.



- Features**
- 120 Volt AC • 12 Amps • 4 tips included
  - Double insulated • UL listed
  - Low setting 750 Watts
  - High setting 1500 Watts

Item ID	Brand
HG1000	Packard

## Hex Bit



Item ID	Length (In.)
PHB316	3/16

## Ratchet Wrench



- Features**
- Reversible

Item ID	Square Size (In.)
PRW516	1/4-3/8-3/16-5/16



## Motor Pump Seals



Head Type - A



Head Type - B



Head Type - C



Head Type - D



Mating Ring - 1

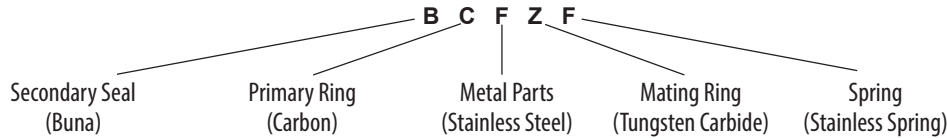


Mating Ring - 3

SECONDARY SEALS	PRIMARY RINGS	METAL PARTS	MATING RINGS	SPRINGS
B. Buna	A. Bronze	D. Brass	A. Bronze	E. Monel®
N. Neoprene	C. Carbon	E. Monel®	G. Cast Iron	F. Stainless Steel
Q. EPR	H. Glass Filled PTFE	F. Stainless Steel	J. Ceramic	P. Plated Steel
T. PTFE	L. Silicon Carbide	P. Plated Steel	K. Ni-Resist	
V. Viton®	M. Molded Plastic		L. Silicon Carbide	
X. AFLAS®	R. Silicon Carbide (CVR)		O. Stellite	
Y. Kalrez®	S. Toolled Steel		S. Toolled Steel	
	Z. Tungsten Carbide		Z. Tungsten Carbide	

### Features

- Self aligning
- Completely assembled for easy installation
- Exceptionally broad application range
- Wide temperature range
- Low, medium or high pressure applications
- Available for standard or limited gland depths
- Automatic compensation for mating ring wear and shaft end play



AFLAS® is a registered trademark of Asahi Glass Co., Ltd.  
 Kalrez® is a registered trademark of DuPont Performance Elastomers, LLC  
 Viton® is a registered trademark of DuPont Performance Elastomers, LLC  
 Monel® is a registered trademark of Special Metals Corporation

### Material Code

Item ID	Seal Size	Head Type	Mating Ring	Material Code
<b>U.S. Seal MFG.</b>				
PS101	3/4	A	1	BMEJF
PS201	3/4	A	1	BMEJF
PS201VCMS	3/4	A	1	VCFJF
PS358V	3/4	C	3	VCFJF
PS100	5/8	A	1	BMEJF
PS200	5/8	A	1	BMEJF
PS100VCMS	5/8	A	1	VCFJF
PS200VCMS	5/8	A	1	VCFJF
PS2131	5/8	A	3	BMEJF
PS1000	5/8	B	1	BMEJF
PS359	5/8	C	1	BCFJF
PS290	5/8	C	1	BCFJF
PS359VCMS P66	5/8	C	1	VCFJF
PS800	5/8	C	1	BMEJF
PS359V	5/8	C	3	VCFJF
PS508	5/8	D	1	BCDJF
PS508V	5/8	D	3	VCDJF
PS357	1	C	1	BCFKF
PS235V	1	C	3	VCFJF
PS356	1 1/8	C	1	BCFJF
PS356V	1 1/8	C	3	VCFJF
PS355V	1 1/8	C	3	VCFKF
PS185	1 1/4	C	1	BCFJF
PS979	1 1/4	C	1	BCFKF
PS978	1 1/4	C	1	BCFJF
PS978V	1 1/4	C	1	VCFJF
PS185VCMS	1 1/4	C	1	VCFJF
PS1109	1 1/4	C	3	BCFKF
PS381	1 1/4	D	1	BCFJF
PS758	1 1/2	C	1	BCFJF
PS659V	1 1/2	C	3	VCFKF



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# Motor Data Request Form

\* REQUIRED

<b>Company/Acct#</b>	*	_____
<b>Contact/Branch Location</b>	*	_____
<b>Phone/Email</b>	*	_____
<b>Motor Application</b> <small>(EX. Blower, Evaporator, Condensing Fan, Ventilation Fan)</small>	*	_____
<b>Manufacturer</b>	*	_____
<b>Model#</b>	*	_____
<b>Serial #</b>		_____
<b>Horsepower</b>	*	_____
<b>Voltage, Hertz and Phase</b> <small>(EX. 208/230V 60Hz 1PH, 220/240V 50Hz 3PH)</small>	*	_____
<b>RPM</b>	*	_____
<b>AMPS</b>	*	_____
<b>Speed Taps</b>		_____
<b>Frame</b>		_____
<b>Enclosure</b>		_____
<b>Shaft Dimension</b>	*	_____
<b>Mounting Type</b>	*	_____
<b>Bearing Type</b>		_____
<b>Capacitor Rating</b>		_____
<b>What equipment did it come out of?</b> <small>(EX. Home refrig., Restaurant side-by-side refrig., Residential cond. unit, Refrig. condensing unit)</small>	*	_____

**Notes:**



## FlatPlate Data Request Form

**Confidential:**

To obtain a quotation for your replacement product, give as much data as possible and e-mail/fax the completed questionnaire to Packard. Fax 770-427-5140, email customerservice@packardonline.com

Company _____	Contact: _____
Address _____	Title: _____
Address _____	Phone: _____
City _____	Fax: _____
State, Zip _____	Email: _____

Application Data (MUST SUPPLY AT LEAST 5)	Hot Side	Cold Side
Name of Fluid		
Rate of Flow (GPM)		
Inlet Temperature (specify if °C) (°F)		
Outlet Temperature (specify if °C) (°F)		
Maximum permissible pressure drop (PSI)		
Design pressure/Design Temperature (PSI/ °F)		
Maximum working pressure (PSI)		
<b>Special Fluid Data:</b>		
Density or Specific gravity (required)		
Specific heat at mean temperature		
Thermal conductivity at mean temperature		
Viscosity at inlet temperature		
Viscosity at outlet temperature		
Percent of undissolved solids		
Nature of solids (i.e. fibrous, powder, size)		
Flow fluctuations, if any		

<b>Preferred Plate Material (REQUIRED):</b>	<input type="checkbox"/> 304 SS	<input type="checkbox"/> 316 SS	<input type="checkbox"/> Titanium	<input type="checkbox"/> Other:
<b>Preferred Gasket Material:</b>	<input type="checkbox"/> NBR	<input type="checkbox"/> Viton	<input type="checkbox"/> EPDM	<input type="checkbox"/> Other:
<b>Certification:</b>	<input type="checkbox"/> ASME	<input type="checkbox"/> CRN	<input type="checkbox"/> ARI400	<input type="checkbox"/> Other:
<b>Product:</b>	<input type="checkbox"/> GPHE	<input type="checkbox"/> GEABloc	<input type="checkbox"/> GEABox	<input type="checkbox"/> GEAShell <input type="checkbox"/> BPHE:

<b>Comments:</b>

## Compressor/Condensing Unit Data Request Form

**\*REQUIRED**

Company/Acct#	*	_____
Contact/Branch Location	*	_____
Phone/Email	*	_____
Compressor/Condenser	*	_____
Manufacturer:		_____
Model#	*	_____
Serial #		_____
Code/BOM#		_____
Voltage, Hertz and Phase (EX. 208/230V 60Hz 1PH, 220/240V 50Hz 3PH)	*	_____
Current Refrigerant	*	_____
Alternative Refrigerant (If changing refrigerant)		_____
Box Temperature (Low -10°F/0°F, Med 30°F/35°F, High 55°F +)	*	_____
<b>OR</b>		
Evaporator Temperature (Low -20°F/-10°F, Med 20°F/25°F, High 45°F +)		_____
What equipment did it come out of? (EX. Home refrig., Restaurant side-by-side refrig., Residential cond. unit, Refrig. condensing unit)	*	_____

**Notes:**

## Aftermarket Terms and Conditions

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1. Prices are those in effect at time of shipment. Prices are subject to change without notice.
2. Minimum order requirement is \$25.00.
3. All shipments are F.O.B. shipping point.
4. Wholesale single release orders of \$2000.00 or more receive prepaid freight to the first destination within the continental U.S. Method of shipment is at the discretion of Packard. Orders less than \$2000.00 will be shipped freight prepaid with the freight charge added to the invoice. If the customer specifies the carrier on a charge freight order, the order will be shipped freight collect.
5. Air shipment or other premium shipping method may be requested at the customer's expense.
6. Claims for shortages and damages must be reported within five business days following the date of delivery. Shortages and/or other visible damages to the exterior packaging must also be noted on the bill of lading. Claims are subject to count/inspection. Damaged product is to be kept for 90 days after claim is reported unless otherwise directed by Packard.
7. Terms: Net 30 to all customers having approved credit standing.
8. Return authorization must be obtained from Packard by the wholesaler before returning any products. Merchandise cannot be returned without a return authorization form.
9. Returnable items will receive a 20% - 50% restocking charge, depending on manufacturer. Customer pays return freight. All returns must be within 30 days from date of shipment and be new, in original packaging, clean and unmarked. Non-stock specialty items are not returnable.
10. Possession of this catalog does not constitute an offer to sell.

### Warranty Procedures

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1. All items sold by Packard, Inc. are warranted against defects in workmanship or materials under normal use for a period of one (1) year. No warranty is made as to the fitness of vendor's products for a particular purpose. Buyer acknowledges that it alone has determined that the goods purchased will suitably meet the requirements of their intended use. In no event will Packard be liable for consequential, incidental or other damages.
2. Motors and products other than compressors\* are covered for up to a maximum of two (2) years from the manufacturer's date code on the product or one year after installation, whichever comes first.
3. For all products except compressors and FlatPlate/Kelvion heat exchangers, please MAIL the original nameplate (label or sticker) for each item. Copies of labels will NOT be accepted. Please do NOT fax or email labels!
4. In the event Packard or the manufacturer requires evaluation of warranty items, Packard will issue a return authorization form. Do not return warranty items unless requested. All FlatPlate/Kelvion heat exchangers must be returned to Packard for proper credit, so please call for return authorization.
5. A reason for failure MUST be provided for each item on the warranty claim.
6. Credits are NOT to be taken by customer until merchandise or original nameplate has been received by Packard, Inc. and credit is issued.
7. Credit will be issued upon verification of purchase history for ORIGINAL labels dated within manufacturing date code requirements.
8. Do not field scrap products until credit has been issued.

\*For compressors (Danfoss, Embraco, Bristol, or LG), please contact Packard, Inc. Warranty Department for further instructions.











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# CREDIT APPLICATION FORM

Customer Number:



## Credit Application Business Account

Packard, Inc.  
1925 Shiloh Rd Bldg 2  
Kennesaw, GA 30144  
Phone: 770.427.5765  
Fax: 770.427.5140  
customerservice@packardonline.com

### BUSINESS CONTACT INFORMATION

Contact Name:		Title:	
Company Name:		Buying Group:	
Phone:	Fax:	E-mail:	
Physical Address:			
City:		State:	Zip Code:
Mailing Address:(If Different)			
City:		State:	Zip Code:
Shipping Address:(If Different)			
City:		State:	Zip Code:
Type of Business:		Date Business Commenced:	
<input type="checkbox"/> Sole Proprietorship:	<input type="checkbox"/> Partnership:	<input type="checkbox"/> Corporation:	<input type="checkbox"/> Other:
Purchasing Agent:		Email Address:	
Payables Contact:		Email Address:	
Sales Tax Exemption Number:		<i>(Please attach a copy of the Certificate)</i>	

### BANK INFORMATION

Bank Name:		Contact:	
Phone:	Fax:	Email:	
Checking Account Number:		Savings Account Number:	

### BUSINESS/TRADE REFERENCES

Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			
Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			
Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			

### AGREEMENT

SHOULD YOU APPROVE THIS APPLICATION, I (WE) AGREE TO PAY FOR ALL GOODS PURCHASED WITHIN THE GIVEN NET 30 DAY TERMS ON EACH INVOICE. PACKARD INC. IS AUTHORIZED TO CONTACT ANY REFERENCES OR BANKS LISTED ABOVE. IT IS UNDERSTOOD THAT ANY INFORMATION SO OBTAINED WILL BE USED SOLELY FOR GRANTING CREDIT. SERVICE CHARGES AT THE HIGHEST RATE PERMITTED BY STATE LAW WILL BE APPLIED TO PAST DUE ACCOUNTS.

### SIGNATURES

Title:	Title:
Date:	Date:

*\*Please email application and attachments to customerservice@packardonline.com.*



# FULFILLMENT MATTERS

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OUR TEAM ENSURES THAT WHAT'S INSIDE  
PACKARD GETS DELIVERED TO YOU WITH  
THE ATTENTION TO DETAIL YOU DESERVE.

- 98% fulfillment rate
- Neatly packed shipments and skids for easier inventory management
- Easy-to-read packing slips
- Online order & shipment tracking  
(register today for an online account at [packardonline.com/account/register](http://packardonline.com/account/register))

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The Packard logo features a stylized blue wave icon above the word "Packard" in a bold, blue, sans-serif font.




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PARTS & COMPONENTS


WE ARE A FAMILY COMPANY THAT TAKES SERVICE SERIOUSLY.  
OUR TEAM IS HERE TO FOCUS ON **YOU**.  
TO **GUIDE** YOU THROUGH THE BUYING PROCESS.  
TO HELP YOU **GROW** YOUR BUSINESS.  
TO PROVIDE ACCESS TO **PEOPLE, SUPPORT, TRAINING**  
AND **FULFILLMENT** TO MAKE YOUR JOB EASIER  
AND YOUR CUSTOMERS HAPPY .


AT EVERY TOUCH POINT, IT IS OUR MISSION  
TO DELIVER SOLUTIONS THAT MATTER.



 1925 SHILOH RD. BLDG. 2, KENNESAW, GA 30144  
2570 N. SHADELAND AVE, SUITE 103, INDIANAPOLIS, IN 46219

 CUSTOMERSERVICE@PACKARDONLINE.COM

 770.427.5765 / 800.334.1769

 770.427.5140

