

**PRODUCT CATALOG** 

The work takes you from superheat to freezing cold. And requires you get really comfortable in the dark, dirty and downright cramped. You gotta find a way to keep your cool even when the customer has been without hers for 27 hours. The tools in your truck are the only help you've got. And that's the kicker. Because while the work keeps getting more complex, the tools haven't evolved much at all. UNTIL NOW.



301 Chestnut Street East Longmeadow, MA 01028 1-800-628-8810 hilmor.com At hilmor, we're revolutionizing the HVAC/R world by creating tools that are a step ahead. Every tool we make is designed to give you all the features you need and none of the ones you don't. We're determined to deliver smart, innovative solutions when and where you need them most. So, you'll be fully equipped to retool and conquer.

#### **TABLE OF CONTENTS**

ELECTRONIC TOOLS	
Electronic Tools Family	1-2
Electronic Gauge with Vacuum Sensor	3-8
Dual Readout Thermometer	9-11
Thermocouple Clamps	12
MANIFOLDS	
Manifold Family	13-16
4-Valve Aluminum Manifold	17-20
2-Valve Aluminum Manifold	21-22
2-Valve Basic Manifold	23-24
GAUGES	
Gauge Family	25
Analog Gauges	26
HOSES	
Hoses Family	27
Hoses	28
60" Refrigeration Hoses	29
Low-Loss Ball Valve Adapters	30
BENDING TOOLS	
Bender Family	31-32
Compact Bender Kit	33-36
Lever Benders	37-38
Tri-Tube Benders	39
Spring Benders	40
FLARING TOOLS	
Flare Family	41-42
Quick-Engage Flare and Swage Kit	43-46
Orbital Flare	47
Basic Flare	48
Large Basic Flare	49
Large Flare/Swage	50
SWAGING TOOLS	
Swage Family	51-52
Compact Swage Tool	53-56
Punch Swage Set	57
Multi-Swage Punch	58
SERVICE TOOLS	
Magnetic Nut Drivers Family	59
Magnetic Nut Drivers	60-62
Quick-Change Magnetic Nut Driver	63-64
9-in-1 Multi-Tool	65
Service Wrenches	66
Inspection Mirror	67
Deburrer	67
Hex Key Sets	68
WORKSITE STORAGE	
Worksite Storage Family	69
HVAC/R Tote	70
Backpack Bag	71-72
Tool Center Bag	73
Zipper Pouch	74
Manifold Cover	74
WARRANTY/PRESSURE TEMPERATURE	
Warranty	75
Pressure Temperature Chart	76

## ALL THE BELLS AND WHISTLES WITHOUT THE UNNECESSARY CRAP.

From gauges to thermometers to thermocouple clamps, hilmor has retooled some of your most important on-the-job necessities. We've added the features you need. We've lost the ones you don't. Our products are innovative, simplified and built to help you conquer any job. Make sure to explore our Electronic Gauge with Vacuum Sensor – it's one of hilmor's most advanced and streamlined products available.





## WHY BUY A HYBRID GAUGE? LET'S START WITH THAT FLASHLIGHT IN

Get out of the dark ages with the industry's first hybrid gauge featuring backlit displays. hilmor's Electronic Gauge with Vacuum Sensor offers true analog capabilities with unmatched digital precision. All within 1% accuracy.



**Lighten The Load** More built-in features including P/T data for 39 refrigerants, dual temperature readings and a micron-gauge save you

#### Treadings and a micron-gauge save yo time, money and trips to the truck. Twice The Confidence Outer gauges have a real needle to

show system pressure and LSAT/ VSAT temperatures, while an inner LCD displays pressures, temperatures and calculated superheat and subcooling.

#### Improved Accuracy

Self-calibrating gauges provide 1% accuracy every time the gauges are turned on.

#### See all the innovations you can put to work at hilmor.com.





## **ELECTRONIC GAUGE WITH VACUUM SENSOR**



#### Lighten The Load

More built-in features including P/T data for 39 refrigerants, dual temperature readings and a micron-gauge save you time, money and trips to the truck.



#### **Twice The Confidence**

Outer gauges have a real needle to show system pressure and LSAT/VSAT temperatures, while an inner LCD displays pressures, temperatures and calculated superheat and subcooling.



#### Improved Accuracy

Self-calibrating gauges provide 1% accuracy every time the gauges are turned on.



#### Easy To Use

Just turn it on, and select your refrigerant. It automatically detects vacuum and displays numerically and graphically.



#### **Quick Identification**

Outer gauge faces change color to coordinate with the selected refrigerant.



#### Rugged & Durable

A high-impact boot means dropping it won't ruin your day.



#### Easy To Maintain

A cleanable vacuum sensor is integrated right into the tool.



Easy-to-read LCD displays temperature, pressure, plus superheat and subcool calculations.



It's as simple as turn it on, select a refrigerant and get on with the job. No confusing menus to scroll through.



### **ELECTRONIC GAUGE WITH VACUUM SENSOR**



#### Quick Identification

Outer gauge faces change color to coordinate with the selected refrigerant.



#### Rugged & Durable

A high-impact protective boot means dropping it won't ruin your day.



#### Easy To Use

Just turn it on, and select your refrigerant. It automatically detects vacuum and displays numerically and graphically.



#### Easy To Maintain

A cleanable vacuum sensor is integrated right into the tool.

#### **Refrigerant List**

Includes the following 39 refrigerants and more available by download. Top 10 refrigerants display first.

R 11	R 402B	R 422A
R 12	R 404A	R 422B
R 13	R 406A	(NU22B)
R 22	R 407A	R 422C
R 23	R 407C	(Oneshot)
R 113	R 408A	R 422D
R 114	R 409A	R 424A
R 123	R 410A	R 434A
R 124	R 414B	(RS-45)
R 125	(Hotshot)	R 438A (M099)
R 134A	R 416A	(M833) R 500
R 401A	R 417A	R 502A
(MP39)	R 420A	R 503
R 401B	R 421A	R 507A
R 402A	R 421B	n 30/A

Press and hold center knob for two seconds to change refrigerant. Turn knob. Press to select.

Item Number	1839104	1839105	
Product Description	EG1 Without Hoses	EG1H With Hos	es
Refrigerants	List of 39 refrige	erants (see lefi	t)
Display Size	3-1/4" Diagonal		
Batteries	AA x 4 (included	)	
Battery Life	24 hours of cont	inuous use	
Low Battery Indicator	LO BATT display enough power to		
Volume	Mute by pressin mute icon displa		כו;
Updates	In field with USB located in batter		ent
Auto Shutoff	After 20 minutes (no button push		2
Thermocouple Connector Type	К		
Hoses Included	N/A		H60BVS4 ' Ball Valve -
Measurement	Range	Resolution	Accuracy
Vacuum	0 to 800 psi 50 to 9999 microns	0.1 psi 1 micron	1% accuracy +-10dgt/1
	-76°F to 999.9°F	0.1°F/C	+-2°C
Maximum Overload Pressure	1000 psi		
Operating Temperature	-10°C to +50°C (	LCD)	
Product Dimens	sions		
Length Width Height Weight	8-7/8" 4" 8-1/4" 4.25 lbs		

## ONE TOOL. ZERO TRIPS BACK TO THE TRUCK. GET USED TO SIDE AND LEADED TO

Keep your cool in any climate with quick and easy calculations. hilmor's Dual Readout Thermometer is the industry's first to offer two digital readouts to help simplify the calculation of superheat and subcool. And it attaches to any manifold.



Makes Calculations Easier The industry's only manifoldcompatible compact thermometer with two readings to help simplify the calculation of superheat and subcool.

Superior Versatility Use it on any gauge set, or remove it and use it independently.



#### **Reads Temperatures Quickly** Two easy-to-use, K-style pipe clamp thermocouples get you to the temperature reading quickly.

#### See all the innovations you can put to work at hilmor.com.





## **DUAL READOUT THERMOMETER**



#### **Makes Calculations Easier**

The industry's only manifoldcompatible compact thermometer with two readings to help simplify the calculation of superheat and subcool.

**Superior Versatility** Use it on any gauge set, or remove it and use it

independently.

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**Reads Temperatures Quickly** Two easy-to-use, K-style tube clamp thermocouples get you to the temperature reading quickly.



This thermometer is the first in the industry to attach to any manifold.

Item Number	1839106		
Product Description	DROT2TCC		
Thermocouples Included	1839108 TCC	C Thermocoup	le Clamps
Batteries	AA x 1 (incluc	led)	
Battery Life	151 hours		
Connection Type	К		
Measurement F	lange	Resolution	Accuracy
Temperature -76°F	<sup>-</sup> to 999.9°F	0.1° F/C	+-2.0°C
Operating Temperatu	re Range -	10°C to +50°C	(LCD)

<b>Product Dimensions</b>	
Length	1-3/4"
Width	1-5/8"
Height	3-7/8"
Weight	.7 lbs



## THERMOCOUPLE CLAMPS

Get right to it on up to 1-1/8" tubing with hilmor's Thermocouple Clamps. K-style connections offer a secure fit and are easy to use with other devices. This set is a perfect pairing for the hilmor Dual Readout Thermometer. When the job is done, it's easy to stow them away. Simply wrap the thermocouple wire around the handles, and secure the plug into the clamp.



Fast, Precise, Readings Gets right to the temperature reading up to 1-1/8" tubing.



#### Secure Connections

K-style connections provide a tight fit and easy use with other devices.



#### Secure Storage

Stow it away simply by wrapping the thermocouple wire around the clamp and securing the plug.



Height

Weight

Item Number	1839108
Product Description	TCC
Connection Type	К
Accuracy	+-2.0°C
Operating Temperature	(plastic) -40°F to 250°F
<b>Product Dimensions</b>	
Lead wire length	36"
Length	5-1/4"
Width	7/8"

5-1/4
7/8"
3-1/4"
.175 lbs





Protect the thermocouple plug when not in use by wrapping the cord around the handle and plugging into the side socket.

#### Attach K-style clamps to an easily accessible spot on the hilmor manifold.



K-style clamps securely attach to tubing up to 1-1/8" for measurements on the double.

Thermocouple Clamp 1839108

## BUILT TO HANDLE ANY CLIMATE THROWN THEIR WAY.



Manifolds operate as your sidekick on every job. They need to be durable. They need to not leak. They need to excel in even the most extreme conditions. The hilmor line of Manifolds is ready to be put to work with replaceable stainless steel valve seats and SAE-style O-rings. The list of features goes on and on, but the one that matters most is their ability to withstand all the pressures you encounter — day in and day out.



### RUGGED, DURABLE AND BUILT FOR PRESSURE. IT'S TIME YOU MET

Introducing hilmor's ruggedly durable Aluminum Manifolds, featuring a forged aluminum body, easy-toread gauges and high-impact boots. Finally, a manifold built to handle anything thrown its way. We're sure you can relate.



#### **Easy To Read** Improved graphics and high-contrast colors for precise readings.

**Quick On The Job** Get faster vacuum pulls with a true 3/8" bore.

#### **Comfort Grip** Rubberized handles are optimally sized for easy turns.

#### See all the innovations you can put to work at hilmor.com.



## 4-VALVE ALUMINUM MANIFOLD with 60" Hoses

	Item Number/Product Description					
Refrigerants	With 60 Hoses an Loss Bal Adapters	nd Low- II Valve	Without Hoses	Temp.	Pressure Range Low	Pressure Range High
R410A	1839109 4V410H		1839111 4V410	F/C	-30" HG/300/ 500 psi	0/800 psi
R12-22-502A	1839115 4V12225		1839117 4V1222502	F	-30" HG/120/ 350 psi	0/500 psi
R12-22-134A	1839120 4V12221		1839121 4V1222134	F	-30" HG/120/ 350 psi	0/500 psi
R22-134A- <mark>404A</mark>	1839122 4V22134		1839124 4V22134404	F	-30" HG/120/ 350 psi	0/500 psi
HP22-407C-410A	1839128 4V2240		1839129 4V22407410	F	0/800 psi	0/800 psi
R22-404A-410A	1839130 4V2240		1839132 4V22404410	F	-30" HG/300/ 500 psi	0/800 psi
R134A- <mark>404A-</mark> 407C	1839135 4V1344(		1839137 4V134404407	F	-30" HG/120/ 350 psi	0/500 psi
Accuracy	C	Class 1 - 19	% Accuracy (full sca	ile)		
Gauge Connection Ty	ype 1 <u>,</u>	/8" NPT I	Male Fitting			
Valve Type	C	) Double O-	ring Piston Style			
Valve Seat (Orifice)	F	Replaceat	ole Stainless Steel (	SAE-style s	traight thread with C	-ring)
Sight Glass	E	Bonded st	eel with SAE-style :	straight thr	ead with O-ring	
Vacuum Port	3	3/8" full bore (quantity 1)				
Charge Ports	1	1/4" (quantity 3)				
Hoses Included	1	1839143 H60BVS4 60" Hoses with Low-Loss Ball Valve Adapters - Set			ters - Set of 4	
Product Dimension	S					
Length Width Height Weight	4	3-7/8" 1" 7-1/8" wit 7.05 lbs	hout hook	8-7/8" 4" 7-1/8" wit 3.40 lbs	thout hook	

## **4-VALVE ALUMINUM MANIFOLD**

We know that manifolds are your lifeline. So, when we decided to retool the features and design, we were meticulous down to the last detail.



#### Extra Confidence

Built to last with a forged aluminum body. Designed to be leak-resistant with replaceable stainless steel valve seats, SAE-style O-rings and a securely seated, large sight glass.



#### Quick On The Job

Get faster vacuum pulls with a true 3/8" bore throughout the valve.



Rubberized handles are optimally sized for quick and painless turns.



Front-mounted hose positions give you easier access.





4-Valve Aluminum Manifold with Hoses & Dual Readout Thermometer 1839116

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## 4-VALVE ALUMINUM MANIFOLD WITH HOSES & DUAL READOUT THERMOMETER

	Item Numl	per/Product Descript	tion		
Refrigerants	With 60" H Low-Loss I	loses and Ball Valve Adapters	Temp.	Pressure Range Low	Pressure Range High
R410A	1839110	4V410HD	F/C	-30" HG/300/500 psi	0/800 psi
R12-22-502A	1839116	4V1222502HD	F	-30" HG/120/350 psi	0/500 psi
R22-134A-404A	1839123	4V22134404HD	F	-30" HG/120/350 psi	0/500 psi
R22-404A-410A	1839131	4V22404410HD	F	-30" HG/300/500 psi	0/800 psi
R134A-404A-407C	1839136	4V134404407HD	F	-30" HG/120/350 psi	0/500 psi
Accuracy		Class 1 - 1% Accurac	cy (full sca	ale)	
Gauge Connection Ty	/pe	1/8" NPT Male Fittir	ıg		
Valve Type	ype Double O-ring Piston Style				
Valve Seat (Orifice)		Replaceable Stainless Steel (SAE-style straight thread with O-ring)			
Sight Glass	ght Glass Bonded steel with SAE-style straight thread with O-ring				
Vacuum Port		3/8" full bore (quantity 1)			
Charge Ports		1/4" (quantity 3)			
Hoses Included		1839143 H60BVS4 6 Ball Valve Adapters -		s with Low-Loss	
Thermometer Include	ermometer Included		1839106 DROT2TCC Dual Readout Thermometer with 2 Thermocouple Clamps		
Thermocouples Inclu	Ided	1839108 2 TCC Ther	mocouple	Clamps	
Product Dimensions	5				
Length Width Height		8-7/8" 4" 7-1/8" without hook			
Weight		7.30 lbs			

## **2-VALVE ALUMINUM MANIFOLD**

The rough and tumble durability of our 4-Valve with the simplicity of a 2-Valve design.



#### Extra Confidence

Built to last with a forged aluminum body. Designed to be leak-resistant with replaceable stainless steel valve seats, SAE-style O-rings and a securely seated, large sight glass.



#### **Comfort Grip**

Offers easy access with front-mounted hose positions and a permanent location for temperature clamps.



A permanent location for the temperature clamps offers quick and convenient storage.



With a forged aluminum body, it can stand up to the roughest, toughest conditions.

Rubberized handles are optimally sized for easy turns.

> 2-Valve Aluminum Manifold 1839118

Item Number/Product Description					
Refrigerants		" Hoses and all Valve Adapters	Temp.	Pressure Range Low	Pressure Range High
R410A	1839113	2V410	F/C	-30" HG/300/500 psi	0/800 psi
R12-22-502A	1839118	2V1222502	F	-30" HG/120/350 psi	0/500 psi
R22-134A- <mark>404A</mark>	1839126	2V22134404	F	-30" HG/120/350 psi	0/500 psi
R22-404A-410A	1839134	2V22404410	F	-30" HG/300/500 psi	0/800 psi
R134A-404A-407C	1839139	2V134404407	F	-30" HG/120/350 psi	0/500 psi
Accuracy		Class 1 - 1% Accura	cy (full sca	le)	
Gauge Connection Ty	pe	1/8" NPT Male Fitting			
Valve Type		Double O-ring Piston Style			
Valve Seat (Orifice)		Replaceable Stainl	ess Steel (S	SAE-style straight thread w	/ith O-ring)
Sight Glass		Bonded Steel with	SAE-style s	straight thread with O-ring	
Charge Ports		1/4" (quantity 3)			
<b>Product Dimensions</b>					
Length Width Height Weight		8-7/8" 1-3/4" 7-1/8" without hoo 2.45 lbs	k		

## **2-VALVE BASIC MANIFOLD**

The hilmor 2-Valve Basic Manifold with 60" Hoses provides all the features you've come to expect from a standard manifold, and then some. It has a durable design, improved accessibility and smart functionality.

The gauges have been optimized for greater 3-1/8" readability with improved graphics, high-contrast color and glow-in-the-dark functionality. Sold with hilmor 60" hoses.



Front-mounted hose positions give you easier access.



#### Easy To Read

Improved graphics and high-contrast colors deliver precise readings at a glance.



#### **Glows In The Dark**

Light-activated paint illuminates, so you won't be left in the dark.



**Comfort Grip** Rubberized handles are optimally sized for easy turns.



#### Superior Protection Hoses have an extra abrasionresistant layer for the tough environments of HVAC/R.



#### **Handles High Pressure** Rated for 800 PSI working pressure to work with highpressure refrigerants.



Item Number/Prod	luct Descrip	otion			
Refrigerants	With 60" H	loses	Temp.	Pressure Range Low	Pressure Range High
R410A	1839114	2VB410H	F/C	-30" HG/300/500 psi	0/800 psi
R12-22-502A	1839119	2VB1222502H	F	-30" HG/120/350 psi	0/500 psi
R22-134A-404A	1839127	2VB22134404H	F	-30" HG/120/350 psi	0/500 psi
Accuracy		Class 1 - 1% Accur	acy (full so	cale)	
Gauge Connection	Туре	1/8" NPT Male Fit	ting		
Valve Type		Double O-ring Pis	Double O-ring Piston Style		
Charge Ports		1/4" (quantity 3)	1/4" (quantity 3)		
Hoses Included		1839153 H60S3 I	Hose 60" -	Set of 3	
<b>Product Dimension</b>	15				
Length		7-9/32"			
Width		3"			
Height		6"			
Weight		3.9 lbs			

## FINALLY, THE BRAINS OF YOUR OPERATION CAN TAKE A BUMP TO THE HEAD.



### **ANALOG GAUGES**

You need accurate readings, and you need them at a glance. hilmor gauges were made for just that. Simply choose the gauge you need, and put it to work.



#### Easy To Read

Improved graphics and highcontrast colors deliver precise readings at a glance.



Rugged & Durable

High-impact protective boots mean dropping it won't ruin your day.



Forget the flashlight. These gauges are equipped with glow-in-the-dark capabilities.



A pressure reminder allows you to set the pressure ring and reference it later.

Item Number/Product Description					
Refrigerants	Low-side (Blue)	Pressure Range	High-side (Red)	Temp.	Pressure Range
R410A	1839082 AG410L	-30" HG/300/500 psi	1839083 AG410H	F/C	0/800 psi
R12-22-502A	1839084 AG1222502L	-30" HG/120/350 psi	1839085 AG1222502H	F	0/500 psi
R12-22-134A	1839086 AG1222134L	-30" HG/120/350 psi	1839087 AG1222134H	F	0/500 psi
R22-134A-404A	1839088 AG22134404L	-30" HG/120/350 psi	1839089 AG22134404H	F	0/500 psi
HP22-407C-410A	1839090 AG22407410L	0/800 psi	1839091 AG22407410H	F	0/800 psi
R22-404A-410A	1839092 AG22404410L	-30" HG/300/500 psi	1839093 AG22404410H	F	0/800 psi
R134A-404A-407C	1839094 AG134404407L	-30" HG/120/350 psi	1839095 AG134404407H	F	0/500 psi
Accuracy	Class 1 - 1%	6 Accuracy (full scale)			
Size 3-1/8" (80r		mm) Gauge			
Fitting	1/8" NPT N	1/8" NPT Male connection			
Included Parts	Protective	boot and dial indicator rin	g		
Product Dimensions					
Depth Diameter Weight	1.71875" 3.625" 0.4 lbs				

## THIS JOB TAKES Some thick skin. Luckily, our Hoses have it.



If you can stand the pressure, your hoses should, too. We've rethought and retooled the hoses you use every day with smart features like an extra abrasionresistant layer for superior protection in tough conditions. All of our Hoses are rated for 800 PSI working pressure to work with the newest high-pressure refrigerants. Simply select the Hose and Ball Valves you need. You can choose from Hoses and Ball Valve Adapters individually, or buy them as a set.

### HOSES

hilmor 36" and 60" Hoses are designed with smart features including an extra abrasion-resistant layer for tough environments.



Superior Protection An extra abrasion-resistant layer

for the tough environments of HVAC/R.



Handles High Pressure Rated for 800 PSI working

pressure to work with highpressure refrigerants.



#### **Item Specifications**

#### 60" Hoses

ltem Number	Description	n	Diameter	
1839150 1839151 1839152 1839153 1839154	H60S3 Hos		1/4" 1/4" 1/4" 1/4" 3/8"	
Maximum Allov Working Press		800 PSI		
Burst Pressure	9	4000 PSI		
Operating Tem	perature	-20°F to +180°F		
End Connectio	n	Straight by 45 degree		
Product Dimensions				
Length Weight		60" .625 lbs		

#### 36" Hoses

Item Number	Descrip	tion	Diameter
1839155 1839156 1839157 1839158 1839159	H36R Hose 36" - Red H36B Hose 36" - Blue H36Y Hose 36" - Yellow H36S3 Hose 36" - Set of 3 H3638 Hose 36" - Vacuum		1/4" 1/4" 1/4" 1/4" 3/8"
Maximum Allowat Working Pressure		800 PSI	
Burst Pressure		4000 PSI	
Operating Temperature		-20°F to +180°F	
End Connection		Straight by 45 degree	
Product Dimensions			
Length Weight		36" .38 lbs	

### **60" REFRIGERATION HOSES** with low-loss ball valve adapters

Rated for 800 PSI working pressure to work with high-pressure refrigerants.



Superior Protection

An extra abrasion-resistant layer for the tough environments of HVAC/R.

ltem Number	Description		Diameter
1839140	H60BVR Hose 60" - Ball Valve - Red		1/4"
1839141	H60BVB Hose 60" - Ball Valve - Blue		1/4"
1839142	H60BVY Hose 6	1/4"	
1839143	H60BVS4 Hose - Set of 4	1/4" & 3/8"	
1839144	H60BV38 Hose 60" - Ball Valve 3/8" - 3/8" VAC Black - Vacuum		
Maximum	Allowable		
Working P	ressure	800 PSI	
Burst Pres	sure	4000 PSI	
Operating	Temperature	-20°F to +180°F	
Hoses End	Connection	Straight by Straight	ļ
Ball Valve	End Connection	Straight by 45 degree	
Product Dimensions			
Length Weight		70-1/2" 1.1 lbs	



## LOW-LOSS BALL VALVE ADAPTERS

We all know that controlling refrigerant loss on the jobsite is a big deal. And the hilmor Low-Loss Ball Valve Adapter is here to help. It is designed with an extra 6" of hose for additional length.



#### Superior Protection An extra abrasion-resistant layer for the tough environments of HVAC/R.



Handles High Pressure Rated for 800 PSI working pressure to work with highpressure refrigerants.



Knob turns quickly and easily to restrict flow from hoses.

ltem Number	Description		Diameter
1839145 1839146 1839147 1839148 1839149	BVR Ball Valv BVB Ball Valv BVY Ball Valv BVS Ball Valv BV38 Ball Val - Black - Vac	1/4" 1/4" 1/4" 1/4" 3/8"	
Maximum A Working Pre		800 PSI	
Burst Press	ure	4000 PSI	
Operating T	emperature	-20°F to +180°F	
End Connection		Straight by 45 degree	
Product Dimensions			
Length Weight		8" .255 lbs	



## IT TAKES BRAINS AND BRAWN TO BEND TUBES.

Quality bends on the job are a necessity. Unfortunately, so are the headaches that come with them. Not anymore. All of our bending tools are intelligently designed to give you more power and more control, resulting in a precision bend you're proud to show off. Choose the bending tool that fits your needs, and get ready to conquer your job – one precisely bent tube at a time.



# **VOUR NEW BAR BET: BENDING PIPES WITH**

The hilmor Compact Bender uses smart and simple features like a spring-loaded ratcheting lever to knock out a 90-degree bend without breaking a sweat. And a quick-release button allows you to free the tube with ease - and without damage - so you can keep your cool no matter what the climate.



#### Simple Setup Universal crossbar and color-coded mandrels make identifying and

changing sizes quick and easy.

One-handed Operation A ratcheting mechanism and innovative release lever allow for bending with one hand.

Small Space Capable A compact design allows it to fit ∟ 🗖 」 where others can't.

#### See all the innovations you can put to work at hilmor.com.





Color-coded shoes make identifying the correct tube size quick and easy.

### **COMPACT BENDER KIT**

#### **Kit Contents**

Body and crossbar for 1/4" to 7/8", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8" mandrels



#### **Item Specifications**

Item Number	1839032		
Product Description	СВК		
Tube Sizes (O.D.)	1/4", 5/16", 3	3/8", 1/2", 5/8	3", 3/4", 7/8"
<b>Product Dimensions</b>	;		
Length Width Height Weight	13.40" 9.71" 3.15" 7.25 lbs		
Replacement Parts			
Description	Size	Bend Radius	ltem Number
CBB Body CBR Bar for 1/4" - 7/8 CBM14 Mandrel CBM516 Mandrel CBM38 Mandrel CBM12 Mandrel CBM58 Mandrel CBM34 Mandrel CBM78 Mandrel	N/A 3" N/A 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8"	N/A N/A 1.25" 12.2" 1.15" 1.1" 1.55" 2.3" 2.75"	1839033 1839034 1839035 1839036 1839037 1839038 1839039 1839040 1839041
Tube Materials	Soft Tubing	g Only	<b>D</b> #====

Copper, Steel, Aluminum, Brass



A ratcheting lever gives you the brawn to bend tubes with one hand.



A quick-release button allows you to free the tube with ease and without damage.



A locking slider keeps the bender compact for storage and transport.

### **LEVER BENDERS**

You need a tool that can give you a precise bend every time. The hilmor Lever Bender can do just that. It's designed with markings to help you center the tube correctly.



Simple Setup

A spring-loaded tube holding mechanism securely holds the tube in place.



Precise Angles Markings on the side help create up to 180° bends.

More Leverage, More Bends Can be placed into a vise for multiple bends or for extra leverage.

#### **Item Specifications**

5/8'ob 16

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Item Numbers	1839028	1839029	1839030
Product Descriptions	LB58	LB34	LB78
Tube Sizes (O.D.)	5/8"	3/4"	7/8"
Tube Sizes (O.D.)	16 mm	19 mm	22 mm
<b>Product Dimensions</b>			
Length Width Height Weight	29" 4.3125" 3.75" 5.6 lbs	32.35" 5.5" 4" 6.6 lbs	34.5" 5.75" 4.25" 7.7 lbs
Tube Materials	Soft Tubing ( Copper, Stee	Only I, Aluminum, E	Irass
Bend Radius	2.25"	3"	3.25"

11

Lever Bender 1839028



Stainless steel rollers reduce friction against the tube.



A spring-loaded mechanism helps to securely hold the tube in place.



The bender can be placed in a vise for even more leverage.



A comfort-grip handle can lessen the strain, allowing easier 180° bends.

### **TRI-TUBE BENDERS**

From start to final bend, the hilmor Tri-Tube Bender has you covered. It just takes simple sizing.

**Simple Sizing** 

Indicators in the handles can help you find the correct tube size.



**Quick Identification** Color-coded to help you spot the right tube size and align in the groove.



**Precise Angles** Markings on the side help create up to 180° bends.

#### **Item Specifications**

Item Numbers	1839026	1839027
Product Descriptions	TC1438	TC1412
Tube Sizes (O.D.)	1/4", 5/16", 3/8"	1/4", 3/8", 1/2"
<b>Product Dimensions</b>		
Length Width Height Weight	14" 2.25" 3.25" 1.1 lbs	19" 3.5" 4.25" 2.40 lbs



Color-coded tube size holes allow you to identify the correct tube size.



Correctly align the tube size with color-coded indicators.



### **SPRING BENDERS**

Getting an accurate bend by hand isn't always easy. But, our Spring Benders can help simplify things. Four different benders are included to fit 1/4", 3/8", 1/2" and 5/8" tubing. Simply slip the Spring Bender over soft-copper or aluminum tubing, and count on the spring to keep the tube from kinking.

Item Number	1839031			
Product Description	SB			
Tube Sizes (O.D.)	1/4"	3/8"	1/2"	5/8"
Product Dimensi	ons			
Size Length	1/4" 11.3"	3/8" 11.3"	1/2" 11.3"	5/8" 11.3"
Weight	.3125 105	.3125 lbs	.3125 lbs	.3125 105



# GET IN. GET OUT. GET ON TO THE NEXT JOB.



Simple setup, precise positioning and a secure hold. It's a common theme you'll find throughout hilmor's line of flaring tools, and it's the reason our flaring tools deliver a precise, quality flare every time. Simply choose the flaring tool that fits your needs, and get ready to conquer your next job.



### **MOST FLARING TOOLS REQUIRE A THIRD ARM.** PROBLEM IS. YOU DON'T HAVE A

Extra appendages are hard to come by these days. Instead, opt for the all-new hilmor Quick-Engage Flare and Swage. Simple setup, precise positioning and a secure hold allow you to quickly conquer and move on to the next job.



#### Less Work Allows for faster flares and swages

because it requires fewer rotations.

Simple Setup A clothespin-inspired, spring-loaded block grips the tube securely.

#### Easy To Position

A tube-stop arrow slides to set correct height and positioning, while ball detents allow easy flaring cone alignment.

#### See all the innovations you can put to work at hilmor.com.







11-20

Ball detents ensure proper and precise alignment to guarantee a perfect flare or swage every time.



Push down the yoke and with fewer rotations, you get a precise flare or swage.



An innovative spring-loaded block holds the tube firmly in place.

### **QUICK-ENGAGE FLARE AND SWAGE KIT**

#### **Kit Contents**

1 Bar, 1 Quick-Engage Yoke, 1 Flare Cone 3/16" to 3/4", 5 Swage Heads



Tube-stop arrow easily identifies correct height and position of the tube.

Item Number	1838947
Product Description	1 FS
Tube Sizes (O.D.)	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Product Dimensior	IS
Length Width Height Weight	8.5" 4.6" 7.5" 3.50 lbs
Tube Materials	Soft Tubing Only Copper, Steel, Aluminum, Brass
Flare Type	45 degree

### **ORBITAL FLARE**

The hilmor Orbital Flare was designed to produce quality flares – again and again. A tube-stop arrow allows precise positioning and placement so you can keep that nickel in your pocket. Plus, a clutch mechanism stops the flare to eliminate cracking the tube.



Precise Flares, Every Time An off-center mounted cone spins on an axis to effectively produce quality flares.

A clutch mechanism stops the flaring when the job is done.

M

#### Simple Setup

**No Cracked Tubes** 

A clothespin-inspired, spring-loaded block grips the tube securely.

#### **Easy To Position**

A tube-stop arrow slides to set correct height and positioning while ball detents allow for easy flaring cone alignment.

A clutch mechanism stops the flare when the job is done to eliminate cracking the tube.



An off-center mounted cone helps to uniformly shape the tube.

#### **Item Specifications**

Item Number	1838952
Product Description	FTO
Tube Sizes (O.D.)	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
<b>Product Dimension</b>	S
Length Width Height Weight	8.5" 4.6" 5.3" 3.75 lbs
Tube Materials	Soft Tubing Only Copper, Steel, Aluminum, Brass
Flare Type	45 degree

Hillmetr &

Orbital Flare 1838952

### **BASIC FLARE**

hilmor flaring tools are the no-muss, no-fuss way to flare. Our Basic Flare handles 1/8" to 3/4" tubes.



#### Durable

The cast steel yoke and hardened flaring bar are made to be knocked around.



#### Control

Steel wing nuts make it easy to hold pipe secure.



#### Small Space Capable

A compact design allows it to be L 🗆 J used even in cramped spaces.



#### **Quality Flares**

An extra-long handle provides more leverage and self-centers for a consistent quality flare.

Item Number	1838956
Product Description	FT1834
Tube sizes (O.D.)	1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
<b>Product Dimensions</b>	
Length Width Height Weight	8.8" 5.2" 4.3" 2.35 lbs
Tube Materials	Soft Tubing Only Copper, Steel, Aluminum, Brass
Flare Type	45 degree
<b>Replacement Parts</b>	
Item Number	1839004 FSC1434 Replacement Cone



### LARGE BASIC FLARE

The hilmor Large Basic Flare has all the advantages of hilmor flaring tools with the bulked-up size to handle 3/4" to 1-1/8" tubes. And it can fit into spaces other flaring and swaging tools can't.



#### Durable

The cast steel yoke and hardened flaring bar are made to be knocked around.



#### Control Steel wing nut

Steel wing nuts make it easy to hold pipe secure.

A compact design allows it to be

used even in cramped spaces.



#### Quality Flares

Small Space Capable

An extra-long handle provides more leverage and self-centers for a consistent quality flare.

#### **Item Specifications**

tem Number	1838955
Product Description	FTL
Tube Sizes (O.D.)	3/4", 7/8", 1-1/8"
Product Dimensions	
Length Width Height Weight	7.1" 6.0" 5.3" 3.7 lbs
Tube Materials	Soft Tubing Only Copper, Steel, Aluminum, Brass
Flare Type	45 degree
Replacement Parts	
tem Number Flare Cone	1839007 3/4" to 1-1/8"



Extra-long handle gives you additional leverage for easier flaring.



## **LARGE FLARE/SWAGE**

When you need a precise, quality flare or swage, the hilmor Large Flare/ Swage delivers. Its compact design allows it to fit where others can't. And, with a long handle for additional leverage, it can help give you a leg up on any job.



#### Durable

The cast steel yoke and hardened flaring bar are made to be knocked around.

Control Steel wing nuts make it easy to hold pipe secure.



#### Small Space Capable

A compact design allows it to be used even in cramped spaces.



#### **Quality Flares**

An extra-long handle provides more leverage and self-centers for a consistent quality flare.

#### **Item Specifications**

1839007

Item Number	1838948	
Product Descript	tion FSL	
Tube Sizes (O.D.)	) 3/4", 7/8", 1-1/8"	
<b>Product Dimens</b>	ions	
Length Width Height Weight	7.1" 6.0" 6.0" 6.4 lbs	
Tube Materials	Soft Tubing Only Copper, Steel, Alur	ninum, Brass
Flare Type	45 degree	
Replacement Pa	arts	
Item Number	Description	Size
1839002 1839003 1839005 1839006	FSA58 Swage Adapter FSA34 Swage Adapter FSA78 Swage Adapter FSA118 Swage Adapter	5/8" 3/4" 7/8" 1-1/8"

FSC58118 Flare Cone

5/8" to 1-1/8"



Easily changeable swage heads are made for 3/4", 7/8" and 1-1/8" tubing.







# NO SWEAT. NO STRAIN. JUST PICTURE-PERFECT SWAGES.



At hilmor, we've built our swaging tools around the way you work. We've retooled the design to make swaging tools much more convenient and comfortable to use. And our tools deliver. Each one is made to be precise.

### THOUGHTFULLY DESIGNED TO FLIMINATE SWINGING A HAMMER AT

In tight spaces, you need a tool that can pack a punch. Just not below the belt. The all-new hilmor Compact Swage can knock out a picture-perfect swage in one shot. These lightweights have the power to swage 1-5/8" tubing and the control to swage 5/16" tubing without a crack. It's time you put a heavy hitter in your corner.



**Picture-perfect Swaging** Simply select the correct head, place it on the tool and make a quality swage.

Less Effort, More Control The power to swage 1-5/8" tubing and the control to swage 5/16" without splitting the tube.

#### Small Space Capable

 A compact, pistol shape allows it to fit into the smallest of spots, even on a ladder.

#### **One-handed Operation**

The lever mechanism and release button allow for one-handed swaging without the fatigue.

#### See all the innovations you can put to work at hilmor.com.

Compact Swage Tool 1839015



hilmar



### **COMPACT SWAGE TOOL**

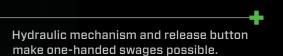
#### **Kit Contents**

3/8", 1/2", 5/8", 3/4", and 7/8" Expander Heads, Deburrer and Compact Swage Tool





**Picture-perfect Swaging** Simply select the correct head, place it on the tool and make a quality swage.



#### **Item Specifications**

1839020 1839021

1839022

1839023

1839024

1839025

1839052

**Tube Materials** 

Item Number	1839015	
Product Description	n CS	
Kit Contents	3/8", 1/2", 5/8", 3/4", 7 Expander Heads, Debur Swage Tool	
Tube Sizes (O.D.)	3/8", 1/2", 5/8", 3/4", 7	/8"
Product Dimensio	ons	
Length Width Height Weight	9" 1.75" 5" 8.5 lbs	
Replacement Par	ts	
Item Number 🛛 🛛	Description	Size
	CSEH516 Expander Head CSEH38 Expander Head	5/16" 3/8"
1839018 (	CSEH12 Expander Head CSEH58 Expander Head	1/2" 5/8"

Recommended Replacement Hydraulic Liquid HV-15

Soft Tubing Only

**DBUR** Deburrer

Recommended Expander Head Lubricant NLGI1 or NLGI2

**CSEH34** Expander Head

**CSEH78** Expander Head

CSEH118 Expander Head

**CSEH138 Expander Head** 

**CSEH158** Expander Head

CSB Compact Swage Body Kit

Copper, Steel, Aluminum, Brass



Multiple expander heads quickly switch out to accommodate 5/16" to 1-5/8" tubing.

3/4"

7/8"

1-1/8"

1-3/8"

1-5/8"

N/A

N/A

### **PUNCH SWAGE SET**

Get the sizes you need, right when you need them with the hilmor 5-piece Punch Swage Set. Punches are available in a set with 1/4", 5/16", 3/8", 1/2" and 5/8".

Item Number	183900	8			
Product Description	S1458				
Tube Sizes (O.D.)	1/4"	5/16"	3/8"	1/2"	5/8"
<b>Product Dimension</b>	S				
Size Diameter Height Weight	1/4" .50" 3" .2 lbs	5/16" .70" 3" .2 lbs	3/8" .70" 3" .2 lbs	1/2" .90" 3.75" .2 lbs	5/8" .90" 3.75" .2 lbs
Tube Materials		bing Only Steel, A	/ luminum	ı, Brass	



### **MULTI-SWAGE PUNCH**

One punch. Multiple tube sizes. The hilmor Multi-Swage Punch is designed to fit 1/4" to 5/8" tubes. Made of steel and chrome-coated for a durable design with less friction against the tube.



The Multi-Swage Punch tool is intelligently designed with a broader base to reduce missed hits.

#### **Item Specifications**

Item Number	1839009
Product Description	MS
Tube Sizes (O.D.)	1/4" to 5/8" (1/4", 5/16", 3/8", 1/2", 5/8")
<b>Product Dimensions</b>	
Diameter Height Weight	.90" 5.25" .35 lbs
Tube Materials	Soft Tubing Only Copper, Steel, Aluminum, Brass



Multi-Swage Punch 1839009

## SOMETIMES A COMPLEX JOB CALLS FOR A SIMPLE SOLUTION.



Retooling with hilmor means getting a little more out of the tools you use every day on the job – even the basic ones. From Service Wrenches, Hex Key Sets and Magnetic Nut Drivers to a 9-in-1 Multi-Tool and Quick-Change Magnetic Nut Driver, we've got you covered. Choose the tool you need, and let hilmor help you get to work.

### **MAGNETIC NUT DRIVERS**

At hilmor, we've taken the nut driver up a notch. Simply put, it's ready to conquer when you are.



**Secure Hold** A magnetic tip keeps fasteners firmly in place.



Quick Identification A color-coded insert makes size identification simple.



#### More Torque

A slip-resistant grip and wrench flats allow for maximum leverage.



Big Bolt Capable A hollowed shaft allows for use on long bolts.



#### Rugged & Durable

Designed to last with a durable chrome-vanadium steel construction.

#### SIZES

#### 1-1/2" Shaft Magnetic Nut Drivers:

Available in 1/4" and 5/16" sizes or as a 2-piece set.

#### 3" and 6" Shaft Magnetic Nut Drivers: Sold individually, or choose our full 7-piece set or our handy 2-piece set.

#### 18" Shaft Magnetic Nut Drivers:

Available in 1/4" and 5/16" sizes.

#### **Item Specifications**

1-1/2" Magnetic Nut Drivers				
Item Number	1839055	1839056	1839057	
Size	1/4"	5/16"	Set of 2 - 1/4" & 5/16"	
Color	Red	Yellow	Red & Yellow	
Product Dimensions				
Length Width Weight	3.5" 1.32" 0.1 lbs	3.5" 1.32" 0.1 lbs	3.5" 1.32" 0.2 lbs	

#### 18" Magnetic Nut Drivers

hilman

Item Number	1839076	1839077
Size	1/4"	5/16"
Color	Red	Yellow
Product Dimensions		

#### Additional sizes on next two pages.

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### **MAGNETIC NUT DRIVERS**

### Item Specifications

#### 3" Magnetic Nut Drivers

ltem Numl 1839058	ber 1839059	1839060	1839061	1839062	1839063	1839064	1839066	1839065
Size 3/16"	1/4"	5/16"	11/32"	3/8"	7/16"	1/2"	Set of 2 - 1/4" & 5/16'	Set of 7
Color Black	Red	Yellow	Green	Blue	Brown	Red	Red & Yellow	Multi
Product D	imensions							
Length 6.88" Width	6.88"	6.88"	6.88"	6.88"	7.25"	7.25"	6.88"	6.88"/7.25"
1.2"	1.2"	1.2"	1.2"	1.2"	1.37"	1.37"	1.2"	1.2"/1.37"
Weight 0.2 lbs	0.2 lbs	0.2 lbs	0.2 lbs	0.25 lbs	0.35 lbs	0.35 lbs	0.4 lbs	1.65 lbs



A color-coded insert makes size identification quick and easy.



### **MAGNETIC NUT DRIVERS**

### **Item Specifications**

#### 6" Magnetic Nut Drivers

ltem Num 1839067	ber 1839068	1839069	1839070	1839071	1839072	2 1839073	8 183907	4 1839075
Size 3/16"	1/4"	5/16"	11/32"	3/8"	7/16"	1/2"	Set of 2 1/4" & 5	
Color Black	Red	Yellow	Green	Blue	Brown	Red	Red & Yellov	Multi v
Product C	Dimensions							
Length 9.88" Width	9.88"	9.88"	9.88"	9.88"	10.25"	10.25"	9.88"	9.88"/10.25"
1.2"	1.2"	1.2"	1.2"	1.2"	1.37"	1.37"	1.2"	1.2"/1.37"
Weight 0.2 lbs	0.2 lbs	0.2 lbs	0.25 lbs	0.25 lbs	0.4 lbs	0.4 lbs	0.4 lbs	1.9 lbs



A wrench flat lets you tighten with a wrench for ease and extra confidence.





### **QUICK-CHANGE MAGNETIC NUT DRIVER**

Quickly switch between 1/4" and 5/16", the two most common sizes.

#### **Item Specifications**

Item Number	1839054
Product Description	QCND
Size	1/4" & 5/16"
<b>Product Dimensions</b>	
Length	1.32"



#### Added Versatility

Quickly switch between 1/4" and 5/16", the two most common sizes.



#### **Secure Hold** A magnetic tip on both ends

A magnetic tip on both ends keeps fasteners firmly in place.

**Quick Identification** A color-coded insert on the bands and bottom makes size identification simple.



#### **Big Bolt Capable** A hollowed shaft allows for use

on long bolts.



#### **Rugged & Durable**

Designed to last with a durable chrome-vanadium steel construction.



A color-coded insert allows for quick tool identification.



A slip-resistant, comfort grip gives you more torque.

### 9-IN-1 MULTI-TOOL

When you need more out of one tool, hilmor is here to help. In fact, our 9-in-1 Multi-Tool even gives you a little more. Tackle any on-the-job challenge with bits, including a valve core remover, square #2, 1/2" hex, 5/16" hex, 3/8" hex, Phillips #1, Phillips #2, 3/16" slotted and 1/4" slotted.



#### More Torque

A slip-resistant grip allows for maximum leverage.



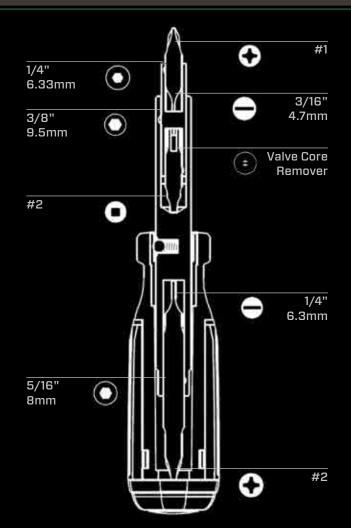
#### Extra Durable

Designed with thick shaft walls for long life and less stripping.



Includes a valve core remover.

Item Number	1839053
Product Description	9IN1SV
<b>Product Dimensions</b>	
Length Width Height	1.32" 1.32" 7.2"





### **SERVICE WRENCHES**

Smart features that save your knuckles and your time. Our Straight Service Wrench makes changing sizes quick and easy. Our Offset Service Wrench makes maneuvering around cramped spaces second nature. The reversible Ratchet Wrench has square openings of 1/4" and 3/16" on one end and 3/8" and 5/16" on the other end. And, when it comes to accessing liquidand suction-based valves, reach for our Hex Key Adapter. It works on 3/16" and 5/16" hex valves.



#### **Item Specifications**

#### Hex Key Adapter

ltem Number	1839046
Hex Valve Sizes	3/16" and 5/16"
Product Dimens	sions
Length 0.37	

7"
7"
3''
4 lbs

ltem Num	ber				
	1839042	1839043	1839045		
Product D	escription				
	SWS Service 1/4 X 3/16 SQ 3/8 X 5/16 SQ		SWLR Service LR 1/2 X 9/16 Hex 3/16 X 1/4 SQ		
Square Si	<b>zes</b> 1/4", 3/16" 3/8", 5/16"	1/4", 3/16" 3/8", 5/16"	1/4", 3/16"		
Hex Sizes	N/A	N/A	1/2", 9/16"		
Accessories 1839046 SWHKA Service Hex Key Adapter works on 3/16" and 5/16" Hex Valves					
Product D	Product Dimensions				
Lenath	.9"	.9"	1 07"		



### **INSPECTION MIRROR**

Leaks can't hide anymore. With a handle that extends from 7-3/4" to 21-1/2", this telescoping mirror truly does go above and beyond.

#### **Item Specifications**

Item Number	1839051
Product Description	IMIR
Product Dimensions	

Inspection Mirror 1839051

### DEBURRER

Whether it's inside or outside, copper or plastic, the hilmor Deburrer can smooth things over. In fact, with its steel blades, it can deburr OD tubing from 1/4" to 1-5/8".



Deburrer 1839052

Item Number	1839052
Product Description	DBUR
Sizes	1/4" to 1-5/8"
<b>Product Dimensions</b>	
Length Width Height Weight (Ibs)	2.1" 2.1" 2.3" 0.11 lbs

### **HEX KEY SETS**

Get the full socket contact you need. Our slip-resistant Folding Hex Key Set includes hex keys from 5/64" to 1/4". And the ball ends of our Ball End Hex Key Set let you access and turn hard-to-get-at fasteners at up to 30° angles. Get equipped with all the hex keys you need in sizes 0.05" to 3/8".



ltem Number	1839048	1839049				
Product Description	Folding Hex Key Set	Ball End Hex Key Set				
	HKFS	HKS				
	5/64", 3/32", 7/64" 1/8", 9/64", 5/32" 3/16", 7/32", 1/4"	0.05", 1/16", 5/64" 3/32", 7/64", 1/8" 9/64", 5/32", 3/16" 7/32", 1/4", 5/16" 3/8"				
Product Dimensions						
Length Width Height Weight (Ibs)	1.7" 0.9" 4.3" 0.32 lbs	0.8" 2.8" 7.25" 0.82 lbs				



Ball ends let you access and turn hard-to-get-at fasteners up to 30° angles.



Folding Hex Key Set

## IN THE DARK, DIRTY AND DOWNRIGHT CRAMPED, YOU GOTTA KEEP IT TOGETHER.

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We're not just revolutionizing your HVAC/R equipment, we're also retooling the way you store it. We offer a wide array of smart storage and transport solutions for all your valuable tools. It's another way we help you conquer from one job to the next. And keep your cool no matter the climate.

hilmar

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hilman

### HVAC/R TOTE

The hilmor HVAC/R Tote is your go-to tool storage and transport solution. It includes 27 exterior and interior pockets, 18 elastic bands and clips for your keys so you can store your tools safely and find them quickly.



#### Keep Organized

27 pockets and 18 elastic bands.



#### Rugged & Durable

Designed to last with waterresistant bottom and reinforced rivets.



#### Secure Storage

Stow your meter away safely in the padded pocket in the interior of the tote. Use the tape measure clip, key clip and tape holder loop to secure the rest of the items you need.



#### Helps With The Heavy Lifting

This tote has room for multiple tools and is tested up to 50 lbs. The padded shoulder strap makes carrying more comfortable.

Item Number	1839078
Product Description	HT
Number of Pockets Interior Exterior	13 14
Extra Features	Key Clip; Tape Loop; Shoulder Strap
Product Dimensions	



Backpack Tool Bag 1839080

GRIP

Tools sold separately.

「西北の波

### **BACKPACK TOOL BAG**

The hilmor Backpack Tool Bag is your jobsite sidekick with 19 exterior and interior pockets. Its sturdy rubber, water-resistant bottom means rain or shine, the contents inside won't be damaged. And while it's spacious enough to hold up to 50 lbs, padded shoulder straps and a back air vent make hauling it a little more comfortable and leaves your hands free to safely climb a ladder.



#### Secure Storage

Stow your meter away safely in either of the two padded zipper pockets on the exterior sides of the tote.



#### Superior Versatility

Hang your manifold from the bag's metal loop for easy transport to the jobsite.



#### Helps With The Heavy Lifting

This bag has room for multiple tools and is tested up to 50 lbs. The padded shoulder straps and air vent back make carrying more comfortable.

19 exterior and interior pockets allow you to store tools safely and find them quickly.



A metal loop gives you an easy way to transport your manifold.

Two padded, zippered side pockets provide safe storage for your meter.

#### **Item Specifications**

Item Number	1839080
Product Description	ВКВ
Number of Pockets Interior Exterior	11 8

#### Extra Features

Clear Vinyl ID Window Pocket; Shoulder Strap; Double-grip Handles; Steel "U" Ring; Airflow Ventilator Pads

Product Dimensions				
Length	6"			
Width	14"			
Height	16"			
Weight	4.5 lbs			

### **TOOL CENTER BAG**

The hilmor Tool Center Bag is your total tool storage solution. It includes 24 exterior and interior pockets and three zippered pouches so you can store your tools safely and find them quickly.



Keep Organized 24 pockets and three zippered

pouches.



#### Secure Storage

Stow your meter away safely in either of the two padded pockets on the exterior sides of the tote.

#### Helps With The Heavy Lifting



This bag has room for multiple tools and is tested up to 50 lbs. The padded shoulder strap makes carrying more comfortable.

#### Rugged & Durable



Designed to last with a hard plastic, water-resistant bottom and a padded aluminum carrying handle.

#### **Item Specifications**

Item Number1839079Product DescriptionTCBNumber of Pockets13; 18 Tool LoopsInterior11

#### Extra Features

Clear Vinyl ID Window Pocket; Shoulder Strap; Cover Flap

Product Dimensions				
Length	13.5"			
Width	8.5"			
Height	9"			
Weight	4.5 lbs			



Three zippered pouches and two padded side pockets provide safe storage for your meter.

Tool Center Bag 1839079

### **ZIPPER POUCH**

The hilmor Zipper Pouch is your best bet for keeping track of all the small stuff on the jobsite – from small tools and accessories to receipts and other paperwork.



#### Keep Organized

The hilmor Zipper Pouch can conveniently fit many hilmor tools, including the Punch Swage Set or Dual Readout Thermometer with two Thermocouple Clamps.



#### Rugged & Durable

Designed with an inner liner to protect from water damage and a rivet on the outside so it can be clipped where it's needed.

### Item Specifications

Height

Weight

Item Number	1839081
Product Description	ZP
Number of Pockets Interior	1
<b>Product Dimensions</b>	
Length	10.5"

7"

3 oz



Zipper Pouch 1839081

### MANIFOLD COVER

The hilmor Manifold Cover is the ultimate shield to keep your manifold out of harm's way. The padded cover protects the manifold from any falls and scrapes while still allowing it to be hung for daily use.



#### Secure Storage

Keep your manifold out of harm's way with a padded protective cover that still allows you to hang it up for daily use.



#### Keep Organized

Use the two mesh pockets on the sides for spare parts and accessories.

#### **Item Specifications**

Weight

Item Number	1839050			
Product Description	MC			
Number of Pockets Exterior	2			
Product Dimensions				
Length	9.5"			
Width	4"			
Height	9"			



6 oz

Manifold Cover 1839050

## WARRANTY

At hilmor, we have put the highest priority on thoughtful product design and manufacturing quality. That is why we guarantee our products to be free of material and workmanship defects for a period of time from purchase (see chart below). We get the tough conditions in which you work and have designed products to stand up to those challenges. Unfortunately, this warranty does not apply to product that has been damaged as a result of improper maintenance, accident or other misuse, or which fails to operate due to normal wear and tear.

Product Line	Time Period from Purchase
Tube Working Tools - benders, flaring & swaging	Lifetime
Service Tools & Drivers	Lifetime
Manifold bar	Lifetime
Tool Storage Bags	Lifetime
Electronics – gauges and thermometers	Three years
Analog Gauges	One year
Hoses	One year

All products subject to warranty claims should be returned to the place of purchase along with proof of purchase showing the date of purchase. The distributor from whom the product was purchased will contact hilmor for next steps, which could include field scrap or return to the factory for analysis, and work with you on a repair, replacement or credit.

Please contact hilmor Technical Services for general technical questions related to products or this warranty policy: 1-800-642-0010.

HILMOR MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE. IN NO EVENT SHALL HILMOR (WHICH INCLUDES NEWELL RUBBERMAID, INC. AND ITS AFFILIATES, SUCCESSORS AND ASSIGNS) BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES (OR LOST PROFITS), REGARDLESS OF THE NATURE OF THE CLAIM.

### **PRESSURE – TEMPERATURE CHART**

ALL PRESSURES SHOWN ARE IN PSIG; RED PRINT = VACUUM (INCHES OF MERCURY)

F	R-12	R-22	R-134A	R-4	D4A	R-4	07C	R-410A	R-502A	С
				Vapor	Liquid	Vapor	Liquid			
-40	11	1	15	5	4	3	4	12	4	-40
-35	8	3	13	8	7	5	1	15	7	-37
-30	6	5	10	11	10	8	2	19	9	-34
-25	2	7	7	14	13	11	4	23	12	-32
-20	1	10	4	17	16	14	7	27	15	-29
-15	2	13	1	21	19	18	9	32	19	-26
-10	5	17	2	25	23	21	13	37	23	-23
-5	7	20	4	29	28	25	16	43	27	-21
0	9	24	7	34	32	30	20	49	31	-18
5	12	28	9	39	37	35	24	55	36	-15
10	15	33	12	45	42	40	28	62	41	-12
15	18	38	15	51	48	46	33	70	47	-9
20	21	43	18	57	55	52	38	78	52	-7
25	25	49	22	64	61	58	44	87	59	-4
30	29	55	26	71	68	65	50	97	66	-1
35	33	62	30	79	76	73	56	107	73	2
40	37	69	35	97	84	81	63	118	81	4
45	42	76	40	106	93	89	71	130	89	7
50	47	84	46	116	103	98	79	142	97	10
55	52	93	51	127	113	108	87	155	107	13
60	58	102	58	138	123	118	97	170	116	16
65	64	111	64	150	135	129	106	185	127	18
70	70	121	71	163	147	141	117	201	138	21
75	77	132	79	176	159	153	128	217	149	24
80	84	144	87	190	173	166	140	235	161	27
85	92	156	95	205	187	180	153	254	174	29
90	100	168	104	221	202	195	166	274	187	32
95	108	182	114	237	218	210	180	295	201	35
100	117	196	124	255	234	226	195	317	216	38
105	127	211	135	273	252	243	210	340	232	41
110	136	226	147	292	270	261	226	365	248	43
115	147	243	159	313	289	280	243	391	265	46
120	158	260	171	318	310	300	261	418	283	49
125	169	278	185	339	331	321	280	446	301	52
130	181	297	199	362	353	342	300	476	321	54
135	194	317	214	385	377	365	321	507	341	57
140	207	337	229	410	401	389	342	539	363	60
145	220	359	246	436	426	412	365	573	391	63
150	234	382	263	463	453	438	389	608	415	66



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