

# Comfort-Cure®

COMFORT, ROOM BY ROOM



## Room Air Product Catalog

[www.marsdelivers.com](http://www.marsdelivers.com)

**MARS**<sup>®</sup>  
— Delivering Confidence

# Table of Contents

The full range of Comfort-Aire products for the Room Air market is presented in this catalog. Products are grouped into categories for your convenience and each section is color-coded, as shown below.

This catalog represents the latest information available at time of publication; however, because of on-going product improvements, we reserve the right to change design, specifications, performance data and materials without notice.

<b>Room Air Cooling.....</b>	<b>1-4</b>
<b>Cooling with Electric Heat.....</b>	<b>5-6</b>
<b>Guide to Window Installation.....</b>	<b>6</b>
<b>Thru-the-Wall Cooling/Heating .....</b>	<b>7-9</b>
<b>Accessories .....</b>	<b>10</b>
<b>Heat Pumps .....</b>	<b>10</b>
<b>Portables .....</b>	<b>11-12</b>
<b>Casement Cooling .....</b>	<b>13</b>
<b>Guide to Sizing .....</b>	<b>13</b>
<b>Dehumidifiers .....</b>	<b>14</b>
<b>Mini-Splits and PTACs .....</b>	<b>14-16</b>
<b>Specification Chart.....</b>	<b>17-18</b>



Comfort-Aire room air products come charged with the environmentally friendly R-410A refrigerant.

All Comfort-Aire room air products are listed with UL for application in the United States and Canada. See the model rating plate for specific certifications.



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## Cooling

## 5,000 BTUH



**RG-51M**

**5,000 BTUH**

### FEATURES

- Electro-mechanical seven-position control for easy temperature selection
- Adjustable thermostat from minimal cooling to maximum cooling
- Easy to access, slide-out filter is washable
- Adjustable air direction
- Compact, lightweight cabinet with attractive decorator front grille

### SPECIFICATIONS

Cooling Capacity BTUH	5,000
Approx. Sq. Ft. Cooling	100-150
EER/CEER	11.1/11.0
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	1.27
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	2/2
Air Delivery Max. CFM	148
dB Level (hi/low)	56.2/52.3
Amps Cooling	4.0
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	No
In-Home Service	No
Shipping Weight (lbs.)	42
Dimensions (in.) Height	12.0
Width	16.0
Depth	15.4



**RADS-51P**

**5,000 BTUH**

### FEATURES

- Electronic controls with remote
- Two-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- 24-hour on/off timer and auto restart, energy saver function; auto, dehumidification and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	5,000
Approx. Sq. Ft. Cooling	100-150
EER/CEER	12.2/12.1
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	1.27
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	140
dB Level (hi/med/low)	56.2/50.5
Amps Cooling	3.8
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	47
Dimensions (in.) Height	12.0
Width	16.0
Depth	15.4


**RADS-61P**      **6,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote
- Adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- 24-hour on/off timer and auto restart, energy saver function; auto, dehumidification and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	6,000
Approx. Sq. Ft. Cooling	150-250
EER/CEER	12.2/12.1
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	1.48
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	147
dB Level (hi/med/low)	56/54/52
Amps Cooling	4.5
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	52
Dimensions (in.) Height	13.4
Width	18.5
Depth	15.7


**RADS-81P**      **8,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- 24-hour on/off timer and auto restart, energy saver function; auto, dehumidification and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	8,000
Approx. Sq. Ft. Cooling	300-350
EER/CEER	12.0/12.0
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.11
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	224
dB Level (hi/med/low)	58/56/54
Amps Cooling	5.9
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	56
Dimensions (in.) Height	13.4
Width	18.5
Depth	17.5


**RADS-101P**      **10,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- 24-hour on/off timer and auto restart, energy saver function; auto, dehumidification and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	10,000
Approx. Sq. Ft. Cooling	400-450
EER/CEER	12.0/12.0
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.32
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	285
dB Level (hi/med/low)	60/59/57
Amps Cooling	7.5
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	69
Dimensions (in.) Height	14.6
Width	19.0
Depth	21.5

## Cooling

## 12,000 to 15,000 BTUH



**RADS-121P 12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- Energy saver mode, 24-hour on/off timer, dehumidification and auto modes



### SPECIFICATIONS

Cooling Capacity BTUH	12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	12.0/12.0
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	300
dB Level (hi/med/low)	61/59/58
Amps Cooling	8.7
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	78.5
Dimensions (in.) Height	14.6
Width	19.0
Depth	21.5



**RADS-123M 12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- Energy saver mode, 24-hour on/off timer, dehumidification and auto modes

### SPECIFICATIONS

Cooling Capacity BTUH	11,700/12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	11.3/11.2
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	288
dB Level (hi/med/low)	60/58/55
Amps Cooling	5.1/4.7
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Tandem NEMA 6-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	77
Dimensions (in.) Height	14.5
Width	19.0
Depth	21.5



**RADS-151P 15,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- Energy saver mode, 24-hour on/off timer, dehumidification and auto modes



### SPECIFICATIONS

Cooling Capacity BTUH	15,100
Approx. Sq. Ft. Cooling	550-700
EER/CEER	11.8/11.8
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	3.17
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	353
dB Level (hi/med/low)	56/54/53
Amps Cooling	11.5
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	118
Dimensions (in.) Height	17.9
Width	23.6
Depth	25.4


**RADS-183P 18,000 BTUH**  
Nominal

**FEATURES**

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- Energy saver function, 24-hour on/off timer, dehumidification and auto modes


**SPECIFICATIONS**

Cooling Capacity BTUH	17,700/18,000
Approx. Sq. Ft. Cooling	700-1000
EER/CEER	11.8/11.8
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	3.80
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	360
dB Level (hi/med/low)	60/57/54
Amps Cooling	7.5/7.0
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Tandem NEMA 6-15P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	129
Dimensions (in.) Height	17.9
Width	23.6
Depth	25.4


**RADS-253P 25,000 BTUH**  
Nominal

**FEATURES**

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- One degree temperature adjustment
- Energy saver function, 24-hour on/off timer, dehumidification and auto modes


**SPECIFICATIONS**

Cooling Capacity BTUH	24,700/25,000
Approx. Sq. Ft. Cooling	1400-1500
EER/CEER	10.3/10.3
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	5.71
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	523
dB Level (hi/med/low)	63/62/62
Amps Cooling	11.8/10.8
Amps Heating	N/A
Maximum Fuse Size	20A
Power Cord	20A Tee NEMA 6-20P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	151
Dimensions (in.) Height	18.6
Width	26.5
Depth	26.5


**RAD-283M 28,000 BTUH**  
Nominal

**FEATURES**

- Large capacity cooling for residential or commercial applications
- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Easy-access, slide-out, washable filter
- Energy saver function, 24-hour on/off timer, dehumidification and auto modes

**SPECIFICATIONS**

Cooling Capacity BTUH	28,000/28,000
Approx. Sq. Ft. Cooling	1500-2000
EER	9.0/9.0
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	6.34
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	523
dB Level (hi/med/low)	63/58/56
Amps Cooling	15.0/13.8
Amps Heating	N/A
Maximum Fuse Size	30A
Power Cord	30A Tandem NEMA 6-30P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	156
Dimensions (in.) Height	18.6
Width	26.5
Depth	26.5

## Cooling/Electric Heat

## 8,000 to 18,000 BTUH



**REG-81M** **8,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote, 24-hour on/off timer
- Energy saver mode, auto restart
- Four way adjustable air direction
- One degree temperature adjustment
- Designed for supplemental electric heat only, thermostat cycles heating element on and off

### SPECIFICATIONS

Cooling Capacity BTUH	8,000
Approx. Sq. Ft. Cooling	300-350
EER/CEER	10.9/10.9
Heating Capacity BTUH (electric)	3,500
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	1.90
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	277
dB Level (hi/med/low)	58/55/52
Amps Cooling	6.3
Amps Heating	11.6
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	82
Dimensions (in.) Height	16.1
Width	22.6
Depth	23.0



**REG-123M** **12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote, 24-hour on/off timer
- Energy saver mode, auto restart
- Four way adjustable air direction
- One degree temperature adjustment
- Designed for supplemental electric heat only, thermostat cycles heating element on and off

### SPECIFICATIONS

Cooling Capacity BTUH	11,600/12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	10.9/10.9
Heating Capacity BTUH (electric)	8,500/11,000
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	279
dB Level (hi/med/low)	61/58/55
Amps Cooling	5.2/5.0
Amps Heating	16.0/14.5
Maximum Fuse Size	20A
Power Cord	20A Tee NEMA 6-20P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	95
Dimensions (in.) Height	16.1
Width	22.6
Depth	23.0



**REG-183M** **18,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote, 24-hour on/off timer
- Energy saver mode, auto restart
- Four-way adjustable air direction
- One degree temperature adjustment
- Designed for supplemental electric heat only, thermostat cycles heating element on and off

### SPECIFICATIONS

Cooling Capacity BTUH	18,200/18,500
Approx. Sq. Ft. Cooling	700-1000
EER/CEER	10.7/10.7
Heating Capacity BTUH (electric)	13,000/16,000
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	3.80
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	446
dB Level (hi/med/low)	60/57/54
Amps Cooling	8.3/7.7
Amps Heating	22.0/20.0
Maximum Fuse Size	30A
Power Cord	30A Tandem NEMA 6-30P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	133
Dimensions (in.) Height	17.9
Width	23.6
Depth	25.4

## 25,000 BTUH



**REG-253M 25,000 BTUH**  
Nominal

### FEATURES

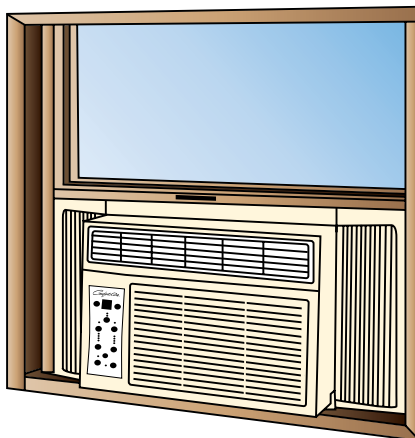
- Electronic controls with full feature remote, 24-hour on/off timer
- Energy saver mode, auto restart
- Four-way adjustable air direction
- One degree temperature adjustment
- Designed for supplemental electric heat only, thermostat cycles heating element on and off

### SPECIFICATIONS

Cooling Capacity BTUH	24,700/25,000
Approx. Sq. Ft. Cooling	1400-1500
EER/CEER	9.4/9.4
Heating Capacity BTUH (electric)	13,000/16,000
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	5.71
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	523
dB Level (hi/med/low)	63/61/58
Amps Cooling	12.4/11.3
Amps Heating	22.5/20.0
Maximum Fuse Size	30A
Power Cord	30A Tandem NEMA 6-30P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	156
Dimensions (in.)	
Height	18.6
Width	26.5
Depth	26.5

When you look at your window-mount air conditioner, you will see louvers on the sides and/or top. These are designed to bring in fresh air that is then directed across the coils inside the unit. It is important that the air conditioner be correctly installed, especially leaving the side louvers and back grille unobstructed.

The chart on the last pages of this catalog shows the maximum thickness of the wall through which the air conditioner should be installed. These widths assure that the side or top louvers will be unobstructed so that adequate fresh air is available for heat transfer to occur.



### Double Hung Window

Each carton shows the minimum and maximum size of the window in which that specific unit will fit.

Measure the width of the window opening and the maximum height when the window is open to determine if the unit you've chosen will fit the available window, in addition to checking the wall thickness.

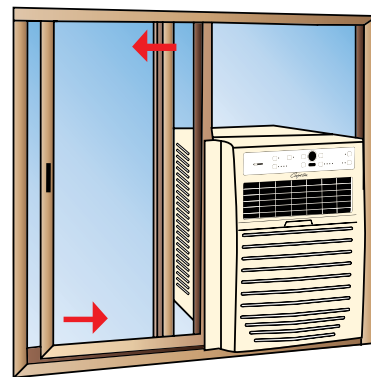
Window-mount air conditioners come with adjustable side panels that slide open to completely fill the window opening; allow 3 to 4 inches of width for the accordion-type side panels to open. The window sash closes onto the bracket located on the top of the air conditioner.

**IMPORTANT:** Because so much of the weight of the air conditioner is on the outside, it is necessary to have a support bracket installed for safety. See page 6 for details on our two sizes of support brackets.

## Installation Tips

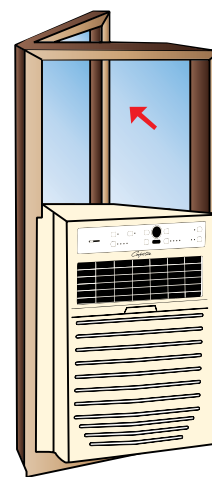
### Casement/Slider Windows

These windows which slide open to the side or open outward require a different type of window air conditioner. Our CD models are ideal for casement or slider windows. The window can close onto the sides of the unit, and a support platform is included. A plastic window filler panel is included with the unit—it can be cut to size and fits into an adjustable window panel frame. For a casement window, the window crank must be removed.



### Slider Window

Filler panel fits into frame that is installed above the unit.



### Casement Window

Window opens outward or the exterior pane may be removed. Crank mechanism is removed.

**Always follow the installation instructions included with the unit.**



**BG-81P**      **8,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Energy saver function and 24-hour on/off timer
- Auto and sleep modes
- Interior trim kit included
- Fits standard wall sleeves



### SPECIFICATIONS

Cooling Capacity BTUH	8,000
Approx. Sq. Ft. Cooling	300-350
EER/CEER	10.6/10.6
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.11
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	270
dB Level (hi/med/low)	57/54/52
Amps Cooling	7.0
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	76
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BG-101P**      **10,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Energy saver function and 24-hour on/off timer
- Interior trim kit included
- Fits standard wall sleeves
- Auto and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	10,000
Approx. Sq. Ft. Cooling	400-450
EER	10.6/10.6
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.32
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	269
dB Level (hi/med/low)	57/55/53
Amps Cooling	8.3
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	80
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BG-103P**      **10,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Energy saver function and 24-hour on/off timer
- Interior trim kit included
- Fits standard wall sleeves
- Auto and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	9,800/10,000
Approx. Sq. Ft. Cooling	400-450
EER	10.6/10.6
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.32
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	275
dB Level (hi/med/low)	58/56/54
Amps Cooling	4.8/4.5
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Tandem NEMA 6-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	80
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3

## 12,000 to 14,000 BTUH

## Thru-the-Wall



**BG-121P 12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Energy saver function and 24-hour on/off timer
- Interior trim kit included
- Fits standard wall sleeves
- Auto and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	10.5/10.5
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	286
dB Level (hi/med/low)	61/59/57
Amps Cooling	10.0
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	87
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BG-123P 12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote and auto restart
- Four-way adjustable air direction
- Energy saver function and 24-hour on/off timer
- Interior trim kit included
- Fits standard wall sleeves
- Auto and sleep modes



### SPECIFICATIONS

Cooling Capacity BTUH	11,700/12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	10.5/10.5
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	286
dB Level (hi/med/low)	61/59/57
Amps Cooling	5.6/5.2
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Tandem NEMA 6-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	89
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BG-143M 14,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote, auto restart
- Four-way adjustable air direction
- 24-hour on/off timer, auto cool and sleep mode
- Interior trim kit included
- Fits standard wall sleeves
- Auto cool, auto mode, dehum only

### SPECIFICATIONS

Cooling Capacity BTUH	13,600/14,000
Approx. Sq. Ft. Cooling	550-700
EER/CEER	9.3/9.5
Heating Capacity BTUH (electric)	N/A
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.96
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	296
dB Level (hi/med/low)	61/60/59
Amps Cooling	7.5/6.9
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Tandem NEMA 6-15P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	89
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3

## Thru-the-Wall with Electric Heat

10,000 to 14,000 BTUH



**BGE-103M 10,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote
- Four-way adjustable air direction
- Energy saver function, 24-hour on/off timer, auto cool and auto restart
- Interior trim kit included
- Fits standard wall sleeves
- Includes electric heat

### SPECIFICATIONS

Cooling Capacity BTUH	9,800/10,000
Approx. Sq. Ft. Cooling	400-450
EER/CEER	9.6/9.6
Heating Capacity BTUH (electric)	8,600/10,600
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.32
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	269
dB Level (hi/med/low)	57/55/53
Amps Cooling	5.0/4.6
Amps Heating	15.0/13.5
Maximum Fuse Size	20A
Power Cord	20A Tandem NEMA 6-20P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	85
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BGE-123M 12,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote
- Four-way adjustable air direction
- Energy saver function, 24-hour on/off timer, auto cool and auto restart
- Interior trim kit included
- Fits standard wall sleeves
- Includes electric heat

### SPECIFICATIONS

Cooling Capacity BTUH	11,700/12,000
Approx. Sq. Ft. Cooling	450-550
EER/CEER	9.5/9.5
Heating Capacity BTUH (electric)	8,600/10,600
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.54
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	286
dB Level (hi/med/low)	61/59/57
Amps Cooling	5.9/5.5
Amps Heating	15.0/13.5
Maximum Fuse Size	20A
Power Cord	20A Tandem NEMA 6-20P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	89
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3



**BGE-143M 14,000 BTUH**  
Nominal

### FEATURES

- Electronic controls with full feature remote
- Four-way adjustable air direction
- Energy saver function, 24-hour on/off timer, auto cool and auto restart
- Interior trim kit included
- Fits standard wall sleeves
- Includes electric heat

### SPECIFICATIONS

Cooling Capacity BTUH	13,600/14,000
Approx. Sq. Ft. Cooling	550-700
EER	9.3/9.5
Heating Capacity BTUH (electric)	8,600/10,600
Power Supply	208/230V 60Hz
Humidity Removal Pts/Hr	2.96
Ventilation Control	No
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3/3
Air Delivery Max. CFM	296
dB Level (hi/med/low)	61/60/59
Amps Cooling	7.5/6.9
Amps Heating	15.0/13.5
Maximum Fuse Size	20A
Power Cord	20A Tandem NEMA 6-20P
Slide-Out Chassis	No
Interior Trim Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	89
Dimensions (in.) Height	14.5
Width	24.2
Depth	20.3

## Room Air Accessories



### AS080 & AS160

#### Window Support Brackets

Easy-to-install brackets add a full measure of safety to window-mounted air conditioners. Manufactured from heavy gauge steel with a durable baked-on epoxy finish, the brackets have stainless steel hardware to resist weather damage. Unique bubble level helps ensure proper installation angle.

**AS080**—For room air conditioners up to 80 pounds

**AS160**—For room air conditioners up to 160 pounds

### EA448F Wall Sleeve

#### For BG and BGE Series

Sleeve is manufactured of G-90 steel and powder coated for durability and corrosion resistance; color matches unit color. The sleeve utilizes the aluminum back grille of the BG/BGE units, and front gaskets eliminate air.

**EA448F**—Wall Sleeve (inches)  
15<sup>1</sup>/<sub>4</sub>" H x 25<sup>1</sup>/<sub>2</sub>" W x 17<sup>1</sup>/<sub>2</sub>" D

### IMPORTANT!

Always wait to cut a hole in structure until unit arrives and dimensions can be verified.

## 12,000-18,000 BTUH



### RAH-123M 12,000 BTUH Nominal

#### FEATURES

- Electronic controls, wireless remote
- Sleep mode and 24-hour timer
- Thru-the-wall or window mount with support bracket included
- Cooling, heating, fan only and auto operation, energy saver mode
- Switches to supplemental electric heat at 40°F outside temperature (Not primary source of heat)

#### SPECIFICATIONS

Cooling Capacity BTUH	11,200/11,600
Approx. Sq. Ft. Cooling	450-550
EER	9.9
Power Supply	208/230V 60Hz
Amps Cooling	5.3/5.1
Electric Heat Cap. BTUH	9,452/12,215
Electric Heat Amps	15.6/13.3
HP Heat Cap. BTUH	9,900/10,200
Heat Pump Amps	5.3/5.1
Heat Pump COP	2.6
Humidity Removal Pts/Hr	3.17
Fan Speeds Cool/Heat/Fan	3/3/3
dB Level (hi/med/low)	72/70/68
Ventilation Control	No
Fan Only	Yes
Air Delivery Max. CFM	265
Maximum Fuse Size	20A
Power Cord	20A Tee NEMA 6-20P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	110
Dimensions (in.) Height	15.3
Width	22.6
Depth	23.6

## Heat Pumps



### RAH-183M 18,000 BTUH Nominal

#### FEATURES

- Electronic controls, wireless remote
- Automatic louver swing
- Thru-the-wall or window mount with support bracket included
- Cooling, heating, fan only, energy saver mode. and 24-hour timer
- Switches to supplemental electric heat at 40°F outside temperature (Not primary source of heat)

#### SPECIFICATIONS

Cooling Capacity BTUH	17,000/17,300
Approx. Sq. Ft. Cooling	700-1000
EER	9.9
Power Supply	208/230V 60Hz
Amps Cooling	7.8/7.3
Electric Heat Cap. BTUH	10,339/12,557
Electric Heat Amps	16.0/14.6
HP Heat Cap. BTUH	14,000/14,300
Heat Pump Amps	7.0/6.5
Heat Pump COP	2.8
Humidity Removal Pts/Hr	4.65
Fan Speeds Cool/Heat/Fan	3/3/3
dB Level (hi/med/low)	72/70/68
Ventilation Control	Yes
Fan Only	Yes
Air Delivery Max. CFM	541
Maximum Fuse Size	20A
Power Cord	20A Tee NEMA 6-20P
Slide-Out Chassis	Yes
Window Mounting Kit	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	159
Dimensions (in.) Height	16.9
Width	26.0
Depth	27.8

## Portable Cooling

## 8,000 to 12,000 BTUH



**PS-81B** **8,000 BTUH**  
Nominal

### FEATURES

- Cool a room without any ductwork or any special wiring, and move the unit from room to room as needed
- Ideal wherever temporary cooling is needed or where a window A/C isn't an option
- Built-in condensate disposal
- 48" single hose for fast installation
- Automatic louver swing
- Washable filter is easily accessed
- 24-hour on/off timer, auto restart
- ASHRAE Standard 128-2001

### SPECIFICATIONS

Cooling Capacity BTUH	8,000
Approx. Sq. Ft. Cooling	300-350
EER	8.9
Refrigerant	R-410A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr.	2.32
Fan Only	Yes
Fan Speeds Cool/Fan	1/1
Air Delivery Max. CFM	209
Amps Cooling	8.0
dB Level (hi/low)	56/52
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	N/A
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	No
Shipping Weight (lbs.)	60
Dimensions (in.) Height	27.7
Width	13.6
Depth	14.0

Hose Diameter 6", Length 48"



**PS-101B** **10,000 BTUH**  
Nominal

### FEATURES

- Cool a room without any ductwork or any special wiring, and move the unit from room to room as needed
- Ideal wherever temporary cooling is needed or where a window A/C isn't an option
- Built-in condensate disposal
- 48" single hose for fast installation
- Automatic louver swing
- Washable filter is easily accessed
- 24-hour on/off timer, auto restart
- ASHRAE Standard 128-2001

### SPECIFICATIONS

Cooling Capacity BTUH	10,000
Approx. Sq. Ft. Cooling	400-450
EER	9.0
Refrigerant	R-410A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr.	2.74
Fan Only	Yes
Fan Speeds Cool/Fan	1/1
Air Delivery Max. CFM	206
Amps Cooling	9.8
dB Level (hi/low)	55/51
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	N/A
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	No
Shipping Weight (lbs.)	62
Dimensions (in.) Height	27.7
Width	13.6
Depth	14.0

Hose Diameter 6", Length 48"



**PS-121B** **12,000 BTUH**  
Nominal

### FEATURES

- Cool a room without any ductwork or any special wiring, and move the unit from room to room as needed
- Ideal wherever temporary cooling is needed or where a window A/C isn't an option
- Built-in condensate disposal
- 48" single hose for fast installation
- Automatic louver swing
- Washable filter is easily accessed
- 24-hour on/off timer, auto restart
- ASHRAE Standard 128-2001

### SPECIFICATIONS

Cooling Capacity BTUH	12,000
Approx. Sq. Ft. Cooling	450-550
EER	8.9
Refrigerant	R-410A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr.	3.38
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	292
Amps Cooling	11.8
dB Level (hi/low)	51/50/49
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	N/A
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	No
Shipping Weight (lbs.)	78
Dimensions (in.) Height	30.1
Width	18.3
Depth	15.6

Hose Diameter 6", Length 48"

## Advantages of Portables

Portable air conditioners and heat/cool models are ideal for any area where temporary cooling (or heating) is needed, or in situations where a window air conditioner isn't an option.

Historical properties are ideal candidates for portables since the aesthetics of the building's exterior are maintained.

Also, additions to existing homes can be conditioned without upgrading the entire HVAC unit to accommodate the added square footage.

Some other applications that can benefit from the efficiency and portability of these units:

- Apartments
- College dormitory rooms
- Bedrooms and sunrooms
- Cottages/vacation homes
- Home workshops
- School and church classrooms
- Warehouse offices

### Installation

Installing a portable unit takes only a few minutes. Hot air from the unit should be exhausted from the room, and a window adapter for the exhaust hose comes with the unit. It has sliding sides to fit a variety of windows, but with its low profile, light from the window isn't blocked. The adapter fits many sizes of double hung windows, and can also be used on certain casement windows and even patio doors—some on-site adjustments may be needed.

Since no ductwork or special wiring is required, the unit can be easily moved from one room to another. Heavy duty casters and handholds built into the sides of the cabinet facilitate location changes.

Ease of installing the window adapter is a primary reason the portable unit can be used throughout the house. However, if the portable is being used only for air circulation (fan), it's not necessary to use the hose hook-up.



*A large diameter, 48" flexible hose effectively exhausts hot air to the outside.*

### Operation

Portable models feature cooling, dehumidification and air circulation (fan only) modes; the PSH-141A adds supplemental heating capability. The 24-hour on/off timer can be used to save energy by operating only at set times when residents are at home. The sleep mode also saves energy by increasing the temperature periodically through the night (so there is less cooling), which also increases the comfort level for many people.



*A handy wireless remote controls all functions of the Comfort-Aire portable units.*



**PSH-141A 14,000 BTUH**  
Nominal

### FEATURES

- Cool or heat a room without ductwork or special wiring, and move from room to room as needed
- Ideal wherever temporary cooling or heating is needed
- Built-in condensate disposal
- Automatic louver swing
- 48" single hose for fast installation
- Washable filter is easily accessed
- 24-hour on/off timer, auto restart
- ASHRAE Standard 128-2001

### SPECIFICATIONS

Cooling Capacity BTUH	14,000
Approx. Sq. Ft. Cooling	550-700
EER	8.9
Heating Capacity BTUH	11,000
COP	2.61
Power Supply	115V 60Hz
Humidity Removal Pts/Hr.	2.96
Fan Only	Yes
Fan Speeds Cool/Heat/Fan	3/3
Air Delivery Max. CFM	292
Amps Cooling	11.9
Amps Heating	10.8
dB Level (hi/low)	55/53/52
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	No
Shipping Weight (lbs.)	83
Dimensions (in.) Height	30.1
Width	18.3
Depth	15.6

*Hose Diameter 6", Length 48"*

## Casement/Slider



**CD-81M** **8,000 BTUH**  
Nominal

### FEATURES

- For horizontal sliding or casement windows, fits opening 20<sup>5</sup>/<sub>16</sub>" to 39<sup>7</sup>/<sub>16</sub>" high, starting at 15<sup>1</sup>/<sub>2</sub>" wide
- Electronic controls and remote
- Four-way adjustable air direction
- Energy saver mode and 24-hour on/off timer, auto restart

### SPECIFICATIONS

Cooling Capacity BTUH	8,000
Approx. Sq. Ft. Cooling	300-350
EER/CEER	10.9/10.8
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	1.90
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	264
dB Level (hi/med/low)	54/51/48
Amps Cooling	6.6
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	80
Dimensions (in.) Height	23.5
Width	14.6
Depth	20.9



**CD-101M** **10,000 BTUH**  
Nominal

### FEATURES

- For horizontal sliding or casement windows, fits opening 20<sup>5</sup>/<sub>16</sub>" to 39<sup>7</sup>/<sub>16</sub>" high, starting at 15<sup>1</sup>/<sub>2</sub>" wide
- Electronic controls and remote
- Four-way adjustable air direction
- Energy saver mode and 24-hour on/off timer, auto restart

### SPECIFICATIONS

Cooling Capacity BTUH	10,000
Approx. Sq. Ft. Cooling	400-450
EER/CEER	10.4/10.4
Heating Capacity BTUH (electric)	N/A
Power Supply	115V 60Hz
Humidity Removal Pts/Hr	2.32
Ventilation Control	Yes
Fan Only	Yes
Fan Speeds Cool/Fan	3/3
Air Delivery Max. CFM	323
dB Level (hi/med/low)	61/58/56
Amps Cooling	8.5
Amps Heating	N/A
Maximum Fuse Size	15A
Power Cord	15A Parallel NEMA 5-15P
Slide-Out Chassis	No
Window Mounting Kit	Yes
Remote Control	Yes
In-Home Service	Yes
Shipping Weight (lbs.)	84
Dimensions (in.) Height	23.5
Width	14.6
Depth	20.9

## Tips for SIZING

Room air units are an economical and practical means of adding comfort to a home, commercial space, warehouse office, or other area. For best results, the air conditioner or room heat pump should be correctly sized for the space. The specifications in this catalog show the approximate square footage which each unit effectively cools. However, other factors should be considered in selecting model size—it would be a good idea to choose the next size up if there are multiple doors and windows in the space, if ceilings are exceptionally high, if heat-generating equipment is used, or if several people occupy the space.

Use the chart below as a quick reference in determining which unit(s) will fit your needs.

Square Feet to be conditioned	Square Meters to be conditioned	Capacity Needed (BTUH)
100 - 150	9.3 - 13.9	5,000
150 - 250	13.9 - 23.2	6,000
250 - 300	23.2 - 27.9	7,000
300 - 350	27.9 - 32.5	8,000
350 - 400	32.5 - 37.2	9,000
400 - 450	37.2 - 41.8	10,000
450 - 550	41.8 - 51.1	12,000
550 - 700	51.1 - 65.1	14,000
700 - 1,000	65.1 - 92.9	18,000
1,000 - 1,200	92.9 - 111.5	21,000
1,200 - 1,400	111.5 - 130.1	23,000
1,400 - 1,500	130.1 - 139.4	25,000
1,500 - 2,000	139.4 - 185.8	30,000

Guidelines from [www.energystar.gov](http://www.energystar.gov)

*Energy Star recommends increasing capacity by 10% for a sunny room, decreasing by 10% for shaded room.*

*If used in a kitchen, add 4,000 BTUHs to the total.*

*If more than two people regularly use the room, add 600 BTUH for each additional person.*

## Portable Dehumidifiers

- **Automatic Water Level Shut-Off**—When the drain bucket is full, unit automatically shuts off, then displays a “Full” light
- **Drain Options**—Condensed water can be collected in the removable bucket that has a convenient handle, or continuously drained using the adapter kit that’s included
- **BHDP Models**—Built-in pump quickly and effectively removes condensate
- **Easy to Use Controls**—All controls are located on the top of the unit so they’re easy to see and adjust; actual room humidity/relative humidity set point is displayed
- **Auto Restart**—Automatically resumes operation after a power outage, ideal for second homes or offices, as well as primary residences
- **Slide-Out Filter**—Filter is easily removed from unit so it can be cleaned and reused; check filter light is a reminder to clean the filter

**30, 50, 70  
pint sizes**



**95 pint  
size**

Optional Direct  
Drain Connection



Convenient  
Drain Bucket



	BHD- 301-H	BHD- 501-H	BHD- 701-H	BHDP-501-H	BHDP-701-H	BHDP-951-H
Pts/Day	30	50	70	50	70	95
Input Amps	2.9	4.7	6.5	4.7	6.5	6.8
Bucket Cap.	6.3 pts	12.7 pts	12.7 pts	12.7 pts	12.7 pts	21.1 pts
Built-in Pump	—	—	—	Yes	Yes	Yes
Energy Star®	Yes	Yes	Yes	Yes	Yes	No
Sound (dBA)	55.1/52.3	55.5	56.0	55.5	56.0	56.0/58.0
Height (in.)	20.1	23.2	23.2	23.2	23.2	24.6
Width (in.)	14.2	15.4	15.4	15.4	15.4	18.8
Depth (in.)	9.9	10.8	10.8	10.8	10.8	14.2
Ship Wt lbs.	31	40	41	41	41	64

## Ductless Mini-Splits

Our “SVH” Series, rated up to 16 SEER, offers economical zone control because only the room or area being used is conditioned. Also inverter technology matches the compressor speed to the room’s changing temperature requirements.

*Optional 115 or 230 volt available on 9k and 12k.*

### S Series 15 SEER

*Single Zone Heat Pumps*

*9,000 - 24,000 BTUH*

*Inverter technology*

*Up to 16 SEER!*



Heat Pump	SVH09SA-0	SVH09SA-1	SVH12SA-0	SVH12SA-1	SVH18SA-1	SVH24SA-1
BTUH	9,000/	9,000/	12,000/	12,000/	18,000/	24,000/
clg/htg	9,800	9,800	12,000	12,000	18,000	24,000

Cooling down to 32°, heating down to 5°F.



Available in cooling only and heat pump models, all with inverter technology for efficiency. Modes include cooling, heating (heat pumps), fan only, dehumidification and sleep mode.

### D Series 17 SEER

*Single Zone Cooling only & HPs*

*9,000 - 24,000 BTUH*

*Inverter technology*

Cooling only	DVC09SF-0	DVC12SF-0	DVC18SF-1	DVC24SF-1
BTUH	9,000	12,000	18,000	23,000
Heat Pump	DVH09SF-0	DVH12SF-0	DVH18SF-1	DVH24SF-1
BTUH clg/htg	9,000/9,000	12,000/12,000	18,000/18,000	24,000/25,000

## Ductless Mini-Split Systems

Super efficient heat pumps are rated up to 25 SEER! 9 thru 24K operate down to -22°F. 100% capacity at 0°F.



Inverter technology saves up to 40% in energy consumption.

+ Models are Energy Star® compliant

VMH09SU-1*	VMH12SU-1*	VMH18SU-1*	VMH24SU-1*	VMH30SD-1	VMH36SD-1
9,000/ 10,900*	12,000/ 11,800*	17,000/ 18,000*	24,000/ 24,000*	30,000/ 30,000*	36,000/ 36,000*

9 thru 24K operate down to -22°F. 100% capacity at 0°F.

### VMH Series

Single Zone Heat Pumps

9,000 - 36,000 BTUH

Inverter technology

Up to 25 SEER!



Optional wired thermostat  
Part No. 7800-206

## Multi-Zone Mini-Split Heat Pumps—Inverter Technology

Cool and heat one to five separate rooms or areas, depending on the capacity of the outdoor unit. Each zone has an independently controlled air handler with remote; ceiling cassettes and ducted units also have a wired wall thermostat. Built with enhanced filtration, quiet operation, multiple modes, low ambient cooling and "Follow" function.

### Mix 'n' match indoor units

May be sized up to 150% of outdoor unit capacity, but may not provide full capacity for all indoor units. Total capacity of all indoor units should not be less than 50% of the outdoor unit's capacity.



Outdoor Unit



Floor & Ceiling Console



Ducted Unit



Floor & Wall Console



High Wall Mount



Ceiling Cassette

208/230-1-60  
SEER 20.5+

**Mix & match indoor units up to maximum capacity of outdoor condenser!**

Outdoor Unit	System Capacity BTUH	Cooling/Heating
A-VFH18DB-1	18,000 cool, 19,000 heat, HSPF 11.0	
A-VFH24TB-1	24,000 cool, 26,000 heat, HSPF 11.0	
A-VFH30QB-1	28,400 cool, 30,000 heat, HSPF 11.5	
A-VFH36QB-1	34,000 cool, 42,500 heat, HSPF 11.5	
A-VFH42PB-1	39,000 cool, 45,000 heat, HSPF 10.2	
High Wall Mount Indoor	Capacity BTUH per unit	
B-VFH09MB-1	9,000 cool, 9,800 heat, 430 max. CFM	
B-VFH12MB-1	12,000 cool, 13,000 heat, 453 max. CFM	
B-VFH18MB-1	18,000 cool, 19,000 heat, 588 max. CFM	
B-VFH24MB-1	20,800 cool, 21,500 heat, 736 max. CFM	
Indoor Ceiling Cassette	Capacity BTUH per unit	
B-VFH12CA-1	12,000 cool, 13,000 heat, 353 max. CFM	
B-VFH18CA-1	14,400 cool, 16,000 heat, 353 max. CFM	
B-VFH24CA-1	22,800 cool, 27,400 heat, 694 max. CFM	
Front Panels	C-VFH1218CA—12K & 18K; C-VFH24CA—24K	

Ducted Unit	Capacity BTUH per unit
B-VFH09DA-1	8,500 cool, 9,500 heat, 265 max. CFM
B-VFH12DA-1	11,900 cool, 13,100 heat, 324 max. CFM
B-VFH18DA-1	15,300 cool, 18,700 heat, 412 max. CFM
B-VFH21DA-1	20,400 cool, 22,600 heat, 588 max. CFM
B-VFH24DA-1	22,800 cool, 27,400 heat, 588 max. CFM
Floor/Wall Console Indoor	Capacity BTUH per unit
B-VFH09FA-1	9,000 cool, 9,500 heat, 383 max. CFM
B-VFH12FA-1	12,000 cool, 13,000 heat, 441 max. CFM
B-VFH18FA-1	18,000 cool, 19,000 heat, 494 max. CFM
Floor/Ceiling Indoor Unit	Capacity BTUH per unit
B-VFH09UA-1	8,500 cool, 9,500 heat, 383 max. CFM
B-VFH12UA-1	11,900 cool, 13,100 heat, 383 max. CFM
B-VFH18UA-1	17,000 cool, 18,700 heat, 559 max. CFM
B-VFH24UA-1	22,800 cool, 27,400 heat, 736 max. CFM

- **Condensate Dispersal System**—"Slinger" system throws condensation onto the condenser coil for evaporation
- **Electronic Thermostat Control**—LED display makes it easy to select set point
- **Modes**—Cool, fan only and auto; heat pump models alternate between reverse cycle heat mode and electric heat mode
- **Compressor Restart Time Delay**—Prevents short cycling of the compressor
- **Freeze Protection**—Automatically activated when needed to keep the evaporator from freezing
- **Memory**—Restarts operation in the mode that was operating when power was lost
- **Fits Most Wall Sleeves**—Matching wall sleeve and grille available as optional accessories
- **Electric Heat**—Designed for supplemental heating only, automatically switches to electric heat when the temperature reaches 44° F or below



**7,000 to  
15,000 BTUH**

**Dimensions:  
42"W x 16<sup>1</sup>/<sub>16</sub>" H x 21<sup>1</sup>/<sub>16</sub>" D**

**Electric Heat Standard—3 kW on  
7K & 9K, 3 or 5 kW on 12K & 15K**

Also available in 265V models, see brochure CA-PT.  
Some series available in Sea Coast coating.

**7602-500B**—Wall Sleeve, insulated, assembled  
**7602-500F**—Wall Sleeve, insulated, knock-down:  
saves room, easily assembled

## 208/230V COOLING ONLY WITH ELECTRIC HEAT

FEATURE	PTAC07A130B	PTAC09A130B	PTAC12A130B	PTAC12A150B	PTAC15A130B	PTAC15A150B
Cooling BTUH	6,800/7,200	9,300/9,500	11,800/12,000	11,800/12,000	14,300/14,500	14,300/14,500
EER	11.9/11.9	11.7/11.4	10.7/10.5	10.7/10.5	10.2/10.2	10.2/10.2
Cooling Amps	2.8/2.7	3.9/3.7	5.4/5.1	5.4/5.1	7.0/6.4	7.0/6.4
Max. Current Amps	3.6	5.1	7.3	7.3	8.9	8.9
Cooling Watts	570/605	795/835	1100/1140	1100/1140	1450/1470	1450/1470
Electric Heater kW	3.0	3.0	3.0	5.0	3.0	5.0
Elec. Heat BTUH @ 230V	10236	10236	10236	17060	10236	17060
Dehum. Pts/Hr	.63	1.27	2.32	2.32	3.59	3.59
Airflow CFM	352/250	352/250	405/333	405/333	405/370	405/370
Indoor Sound Max dB	45/35	45/35	48/42	48/42	48/45	48/45
Out. Sound Max dB	66	66	66	66	66	66
Net Wt./Shipping Wt.	97/110	102/115	108/121	108/121	112/126	112/126

## 208/230V HEAT PUMP WITH ELECTRIC HEAT

FEATURE	PTHP07A130B	PTHP09A130B	PTHP12A130B	PTHP12A150B	PTHP15A130B	PTHP15A150B
Cooling BTUH	6,800/7,200	9,300/9,500	11,800/12,000	11,800/12,000	14,300/14,500	14,300/14,500
EER	11.9/11.9	11.7/11.4	10.7/10.5	10.7/10.5	10.2/10.2	10.2/10.2
Cooling Amps	2.8/2.7	3.9/3.7	5.4/5.1	5.4/5.1	6.8/6.3	6.8/6.3
Max. Current Amps	3.6	5.1	7.3	7.3	8.9	8.9
Cooling Watts	570/605	795/835	1100/1140	1100/1140	1400/1420	1400/1420
Heat Pump BTUH	6,100/6,400	8,300/8,500	10,800/11,000	10,800/11,000	13,200/13,600	13,200/13,600
C.O.P. @ 47°F	3.30/3.30	3.50/3.50	3.50/3.30	3.50/3.30	3.30/3.30	3.30/3.30
Heating Amps	2.6/2.5	3.3/3.1	4.5/4.2	4.5/4.2	5.6/5.2	5.6/5.2
Heating Watts	535/560	685/710	900/950	900/950	1155/1180	1155/1180
Electric Heater kW	3.0	3.0	3.0	5.0	3.0	5.0
Elec. Heat BTUH @ 230V	10236	10236	10236	17060	10236	17060
Dehum. Pts/Hr	.63	1.27	2.32	2.32	3.59	3.59
Airflow CFM	352/250	352/250	405/333	405/333	405/370	405/370
Indoor Sound Max dB	45/35	45/35	48/42	48/42	48/45	48/45
Out. Sound Max dB	66	66	66	66	66	66
Net Wt./Shipping Wt.	99/112	104/117	110/123	110/123	112/126	112/126

# Specifications

## POWER CORD Configurations



15 AMP 115V  
PARALLEL  
**A**  
5-15P



15 AMP 230V  
TANDEM  
**B**  
6-15P



20 AMP 230V  
TEE  
**C**  
6-20P



30 AMP 230V  
TANDEM  
**D**  
6-30P

## Sizing Guidelines

Use the chart below as a quick reference in determining which unit(s) will fit your needs

Square Feet to be conditioned	Square Meters to be conditioned	Capacity Needed (BTUH)
100 - 150	9.3 - 13.9	5,000
150 - 250	13.9 - 23.2	6,000
250 - 300	23.2 - 27.9	7,000
300 - 350	27.9 - 32.5	8,000
350 - 400	32.5 - 37.2	9,000
400 - 450	37.2 - 41.8	10,000
450 - 550	41.8 - 51.1	12,000
550 - 700	51.1 - 65.1	14,000
700 - 1,000	65.1 - 92.9	18,000
1,000 - 1,200	92.9 - 111.5	21,000
1,200 - 1,400	111.5 - 130.1	23,000
1,400 - 1,500	130.1 - 139.4	25,000
1,500 - 2,000	139.4 - 185.8	30,000

Guidelines from [www.energystar.gov](http://www.energystar.gov)

Energy Star recommends increasing capacity by 10% for a sunny room, decreasing by 10% for shaded room.

If used in a kitchen, add 4,000 BTUHs to the total.

If more than two people regularly use the room, add 600 BTUH for each additional person.

## IMPORTANT!

Always wait to cut an opening until the unit arrives and dimensions can be verified.



Model	Cooling Capacity BTU/Hr	Approx. Sq. Ft. Cooling	EER/CEER	Heating Capacity BTUH (electric)	Electric (Volts)	Humidity Removal Pints/Hr	Remote Control
<b>COOLING 5,000 to 10,000 BTUH</b>							
RG-51M	5,000	100-150	11.1/11.0	N/A	115	1.27	No
RADS-51P*	5,000	100-150	12.2/12.1	N/A	115	1.27	Yes
RADS-61P*	6,000	150-250	12.2/12.1	N/A	115	1.48	Yes
RADS-81P*	8,000	300-350	12.0/12.0	N/A	115	2.11	Yes
RADS-101P*	10,000	400-450	12.0/12.0	N/A	115	2.32	Yes
<b>COOLING 12,000 to 36,600 BTUH</b>							
RADS-121P*	12,000	450-550	12.0/12.0	N/A	115	2.54	Yes
RADS-123M	11,700/12,000	450-550	11.3/11.2	N/A	208/230	2.54	Yes
RADS-151P*	15,100	550-700	11.8/11.8	N/A	115	3.17	Yes
RADS-183P*	17,700/18,000	700-1000	11.8/11.8	N/A	208/230	3.80	Yes
RADS-253P*	24,700/25,000	1400-1500	10.3/10.3	N/A	208/230	5.71	Yes
RAD-283M	28,000/28,000	1500-2000	9.0/9.0	N/A	208/230	6.34	Yes
<b>COOLING WITH ELECTRIC HEAT</b>							
REG-81M	8,000	300-350	10.9/10.9	3,500	115	1.90	Yes
REG-123M	11,600/12,000	450-550	10.9/10.9	8,500/11,000	208/230	2.54	Yes
REG-183M	18,200/18,500	700-1000	10.7/10.7	13,000/16,000	208/230	3.80	Yes
REG-253M	24,700/25,000	1400-1500	9.4/9.4	13,000/16,000	208/230	5.71	Yes
<b>THRU-THE-WALL SERIES</b>							
BG-81P*	8,000	300-350	10.6/10.6	N/A	115	2.11	Yes
BG-101P*	10,000	400-450	10.6/10.6	N/A	115	2.32	Yes
BG-103P*	9,800/10,000	400-450	10.6/10.6	N/A	208/230	2.32	Yes
BG-121P*	12,000	450-550	10.5/10.5	N/A	115	2.54	Yes
BG-123P*	11,700/12,000	450-550	10.5/10.5	N/A	208/230	2.54	Yes
BG-143M	13,600/14,000	550-700	9.3/9.5	N/A	208/230	2.96	Yes
BGE-103M	9,800/10,000	400-450	9.6/9.6	8,600/10,600	208/230	2.32	Yes
BGE-123M	11,700/12,000	450-550	9.5/9.5	8,600/10,600	208/230	2.54	Yes
BGE-143M	13,600/14,000	550-700	9.3/9.5	8,600/10,600	208/230	2.96	Yes
<b>HEAT PUMPS</b>							
RAH-123M	11,200/11,600	450-550	9.9	9,900/10,200**	208/230	3.17	Yes
RAH-183M	17,000/17,300	700-1000	9.9	14,000/14,300**	208/230	4.65	Yes
<b>CASEMENT SERIES</b>							
CD-81M	8,000	300-350	10.9/10.8	N/A	115	1.90	Yes
CD-101M	10,000	400-450	10.4/10.4	N/A	115	2.32	Yes
<b>PORTABLE A/C</b>							
PS-81B	8,000	300-350	8.9	N/A	115	2.32	Yes
PS-101B	10,000	400-450	9.0	N/A	115	2.74	Yes
PS-121B	12,000	450-550	8.9	N/A	115	3.38	Yes
PSH-141A	14,000	550-700	8.9	11,000	115	2.96	Yes

\* Energy Star® rated

\*\* Heat pump capacity

Model Number	Ventilation Control	Fan Only Speeds	Air Delivery Max. CFM	Fan Motor Speeds	Amps Cooling	Amps Heating	dB Level (hi/med/low)	Maximum Fuse Size Amps	Slide-Out Chassis	Window Mounting Kit (Standard)	Power Cord Plug	Approx. Max-Wall Thickness (in.)	Ship Weight (lbs.)	Dimensions H x W x D (with base and front in inches)
<b>COOLING 5,000 to 10,000 BTUH</b>														
RG-51M	No	2	148	2	4.0	N/A	56/52	15	No	Yes	A	3.3	42	12.0 x 16.0 x 15.4
RADS-51P*	No	3	140	3	3.8	N/A	56/53/51	15	No	Yes	A	3.3	47	12.0 x 16.0 x 15.4
RADS-61P*	No	3	147	3	4.5	N/A	56/54/52	15	No	Yes	A	5.0	52	13.4 x 18.5 x 15.7
RADS-81P*	No	3	224	3	5.9	N/A	58/56/54	15	No	Yes	A	5.7	56	13.4 x 18.5 x 17.5
RADS-101P*	Yes	3	285	3	7.5	N/A	60/59/57	15	No	Yes	A	7.3	69	14.6 x 19.0 x 21.5
<b>COOLING 12,000 to 36,600 BTUH</b>														
RADS-121P*	Yes	3	300	3	8.7	N/A	61/59/58	15	No	Yes	A	7.3	79	14.6 x 19.0 x 21.5
RADS-123M	Yes	3	288	3	5.1/4.7	N/A	60/58/55	15	No	Yes	B	7.3	77	14.6 x 19.0 x 21.4
RADS-151P*	Yes	3	353	3	11.5	N/A	56/54/53	15	Yes	Yes	A	8.0	118	17.9 x 23.6 x 25.4
RADS-183P*	Yes	3	360	3	7.5/7.0	N/A	60/57/54	15	Yes	Yes	B	8.0	129	17.9 x 23.6 x 25.4
RADS-253P*	Yes	3	523	3	11.8/10.8	N/A	63/62/62	20	Yes	Yes	C	10.0	151	18.6 x 26.5 x 26.5
RAD-283M	Yes	3	523	3	15.0/13.8	N/A	63/58/56	30	Yes	Yes	D	10.0	156	18.6 x 26.5 x 26.5
<b>COOLING WITH ELECTRIC HEAT</b>														
REG-81M	No	3	277	3	6.3	11.6	58/55/52	15	No	Yes	A	6.1	82	16.1 x 22.6 x 23.0
REG-123M	No	3	279	3	5.2/5.0	16.0/14.5	61/58/55	20	No	Yes	C	6.1	95	16.1 x 22.6 x 23.0
REG-183M	Yes	3	446	3	8.3/7.7	22.0/20.0	60/57/54	30	Yes	Yes	D	8.0	133	17.9 x 23.6 x 25.4
REG-253M	Yes	3	523	3	12.4/11.3	22.5/20.0	63/61/58	30	Yes	Yes	D	10.0	156	18.6 x 26.5 x 26.5
<b>THRU-THE-WALL SERIES</b>														
BG-81P*	No	3	270	3	7.0	N/A	57/54/52	15	No	Yes <sup>▲</sup>	A	18.0	76	14.5 x 24.2 x 20.3
BG-101P*	No	3	269	3	8.3	N/A	57/55/53	15	No	Yes <sup>▲</sup>	A	18.0	80	14.5 x 24.2 x 20.3
BG-103P*	No	3	275	3	4.8/4.5	N/A	58/56/54	15	No	Yes <sup>▲</sup>	B	18.0	80	14.5 x 24.2 x 20.3
BG-121P*	No	3	286	3	10.0	N/A	61/59/57	15	No	Yes <sup>▲</sup>	A	18.0	87	14.5 x 24.2 x 20.3
BG-123P*	No	3	286	3	5.6/5.2	N/A	61/59/57	15	No	Yes <sup>▲</sup>	B	18.0	89	14.5 x 24.2 x 20.3
BG-143M	No	3	296	3	7.5/6.9	N/A	61/60/59	15	No	Yes <sup>▲</sup>	B	18.0	89	14.5 x 24.2 x 20.3
BGE-103M	No	3	269	3	5.0/4.6	15.0/13.5	57/55/53	20	No	Yes <sup>▲</sup>	C	18.0	85	14.5 x 24.2 x 20.3
BGE-123M	No	3	286	3	5.9/5.5	15.0/13.5	61/59/57	20	No	Yes <sup>▲</sup>	C	18.0	89	14.5 x 24.2 x 20.3
BGE-143M	No	3	296	3	7.5/6.9	15.0/13.5	61/60/59	20	No	Yes <sup>▲</sup>	C	18.0	89	14.5 x 24.2 x 20.3
<b>HEAT PUMPS</b>														
RAH-123M	No	3	265	3	5.3/5.1	5.3/5.1	72/70/68	20	Yes	Yes	C	6.6	110	15.3 x 22.6 x 23.6
RAH-183M	Yes	3	541	3	7.8/7.3	7.0/6.5	72/70/68	20	Yes	Yes	C	7.6	159	16.9 x 26.0 x 27.8
<b>CASEMENT SERIES</b>														
CD-81M	Yes	3	264	3	6.6	N/A	54/51/48	15	No	Yes	A	8.5	80	23.5 x 14.6 x 20.9
CD-101M	Yes	3	323	3	8.5	N/A	61/58/56	15	No	Yes	A	8.5	84	23.5 x 14.6 x 20.9
<b>PORTABLE A/C</b>														
PS-81B	No	1	209	1	8.0	N/A	56/52	15	N/A	Yes	A	N/A	60	27.7 x 13.6 x 14.0
PS-101B	No	1	206	1	9.8	N/A	55/51	15	N/A	Yes	A	N/A	62	27.7 x 13.6 x 14.0
PS-121B	No	3	292	3	11.8	N/A	51/50/49	15	N/A	Yes	A	N/A	78	30.1 x 18.3 x 15.6
PSH-141A	No	3	292	3	11.9	10.8	55/53/52	15	N/A	Yes	A	N/A	83	30.1 x 18.3 x 15.6

▲ Interior trim kit for BG, BGE Series: Models use wall sleeve

## The Quality Leader in Conditioning Air

There's the confidence that comes from dealing with a company that's been around for generations. Founded in 1933, we can actually trace our beginnings to the Wingert Furnace Company which began building coal, gas and oil furnaces in 1907. Headquartered in Jackson, Michigan, since 1955, our facility, our staff and our product offerings have grown over the years to meet changes in the HVAC industry, including emerging technologies and regulatory requirements.

MARS is known throughout the industry for efficient, reliable products and in-season availability. Whether for heating or cooling, these products meet or exceed industry standards for energy efficiency. Added to that, the line is constantly being updated to add the features and new technology customers demand.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

### REST ASSURED: VALUE-ADDED PROGRAMS

When you buy Comfort-Aire products, you're purchasing the peace of mind that comes from dealing with a company that's been in business for over 75 years. We have a well-deserved reputation not only for quality products, but also for standing behind those products with excellent warranty and support programs.

Comfort-Aire backs all its products with some of the strongest warranties in the industry. For details see the warranty card packed with the unit, or refer to our web site for copies of warranty details.

Our products are built to exacting standards, but should you experience a problem, you can rely on our nationwide network of service providers.

Our room air products are accompanied by detailed, comprehensive installation and operating manuals and these, along with other technical data, are also available on our website.