

## 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>17/32</sup>" H x 25<sup>7/8</sup>" W x 16<sup>23/32</sup>" 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	9,400/12,200
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	16 <sup>1/8</sup>
Width	22 <sup>5/8</sup>
Depth	23

## 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	10,300/12,500
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	2.64
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	18 <sup>5/8</sup>
Width	26 <sup>1/2</sup>
Depth	26 <sup>1/2</sup>

# 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	11.11.2	N/A	208/230	2.54	Yes
RADS-151P*	15,100	550-700	12.0/12.0	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	28,000/28,500	1500-2000	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	1.48	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	9.3/9.3	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	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	1.9	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	N/A	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	136	2	4.0	N/A	55/51	15	No	Yes	A	3 <sup>9</sup> / <sub>16</sub>	45	12 x 16 x 15 <sup>7</sup> / <sub>16</sub>
RADS-51P*	No	3	140	3	3.8	N/A	56/53/51	15	No	Yes	A	3 <sup>9</sup> / <sub>16</sub>	47	12 x 16 x 15 <sup>7</sup> / <sub>16</sub>
RADS-61P*	No	3	147	3	4.5	N/A	56/54/52	15	No	Yes	A	5	52	13 <sup>7</sup> / <sub>16</sub> x 18 <sup>1</sup> / <sub>2</sub> x 15 <sup>3</sup> / <sub>4</sub>
RADS-81P*	No	3	224	3	5.9	N/A	60/59/56	15	No	Yes	A	5	58	13 <sup>7</sup> / <sub>16</sub> x 18 <sup>1</sup> / <sub>2</sub> x 15 <sup>3</sup> / <sub>4</sub>
RADS-101P*	Yes	3	285	3	7.5	N/A	60/58/51	15	No	Yes	A	7 <sup>5</sup> / <sub>16</sub>	70.6	14 <sup>5</sup> / <sub>8</sub> x 19 x 21 <sup>1</sup> / <sub>2</sub>
<b>COOLING 12,000 to 36,600 BTUH</b>														
RADS-121P*	Yes	3	300	3	8.7	N/A	61/57/54	15	No	Yes	A	7 <sup>5</sup> / <sub>16</sub>	78.5	14 <sup>5</sup> / <sub>8</sub> x 19 x 21 <sup>1</sup> / <sub>2</sub>
RADS-123M	Yes	3	288	3	5.1/4.7	N/A	60/58/55	15	No	Yes	B	7 <sup>5</sup> / <sub>16</sub>	77	14 <sup>5</sup> / <sub>8</sub> x 19 x 21 <sup>1</sup> / <sub>2</sub>
RADS-151P*	Yes	3	353	3	11.5	N/A	56/54/53	15	Yes	Yes	A	8	118	17 <sup>15</sup> / <sub>16</sub> x 23 <sup>5</sup> / <sub>8</sub> x 25 <sup>7</sup> / <sub>16</sub>
RADS-183P*	Yes	3	360	3	7.5/7.0	N/A	60/57/54	15	Yes	Yes	B	8	129	17 <sup>15</sup> / <sub>16</sub> x 23 <sup>5</sup> / <sub>8</sub> x 25 <sup>7</sup> / <sub>16</sub>
RADS-253P*	Yes	3	523	3	11.8/10.8	N/A	63/62/62	20	Yes	Yes	C	10	151	18 <sup>5</sup> / <sub>8</sub> x 26 <sup>1</sup> / <sub>2</sub> x 26 <sup>1</sup> / <sub>2</sub>
RAD-283M	Yes	3	523	3	15.0/13.8	N/A	63/61/58	30	Yes	Yes	D	10	156	18 <sup>5</sup> / <sub>8</sub> x 26 <sup>1</sup> / <sub>2</sub> x 26 <sup>1</sup> / <sub>2</sub>
<b>COOLING WITH ELECTRIC HEAT</b>														
REG-81M	No	3	277	3	6.3	11.6	58/55/52	15	Yes	Yes	A	6 <sup>1</sup> / <sub>8</sub>	82	16 <sup>1</sup> / <sub>8</sub> x 22 <sup>5</sup> / <sub>8</sub> x 23
REG-123M	No	3	279	3	5.2/5.0	16.0/14.5	61/58/55	20	Yes	Yes	C	6 <sup>1</sup> / <sub>8</sub>	93	16 <sup>1</sup> / <sub>8</sub> x 22 <sup>5</sup> / <sub>8</sub> x 23
REG-183M	Yes	3	446	3	8.3/7.7	22.0/20.0	60/57/54	30	Yes	Yes	D	8	131	17 <sup>15</sup> / <sub>16</sub> x 23 <sup>5</sup> / <sub>8</sub> x 25 <sup>7</sup> / <sub>16</sub>
REG-253M	Yes	3	523	3	12.4/11.3	22.5/20.0	63/61/58	30	Yes	Yes	D	10	147	18 <sup>5</sup> / <sub>8</sub> x 26 <sup>1</sup> / <sub>2</sub> x 26 <sup>1</sup> / <sub>2</sub>
<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	76	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BG-101P*	No	3	269	3	8.3	N/A	57/55/53	15	No	Yes <sup>▲</sup>	A	18	80	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BG-103P*	No	3	275	3	4.8/4.5	N/A	58/56/54	15	No	Yes <sup>▲</sup>	B	18	80	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BG-121P*	No	3	286	3	10.0	N/A	61/59/57	15	No	Yes <sup>▲</sup>	A	18	87	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BG-123P*	No	3	286	3	5.6/5.2	N/A	61/59/57	15	No	Yes <sup>▲</sup>	B	18	89	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BG-143M	No	3	296	3	7.5/6.9	N/A	61/60/59	15	No	Yes <sup>▲</sup>	B	18	89	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BGE-103M	No	3	269	3	5.4/5.0	15.0/13.5	57/55/53	20	No	Yes <sup>▲</sup>	C	18	85	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BGE-123M	No	3	286	3	5.9/5.5	15.0/13.5	61/59/57	20	No	Yes <sup>▲</sup>	C	18	89	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
BGE-143M	No	3	296	3	7.5/6.9	15.0/13.5	61/60/59	20	No	Yes <sup>▲</sup>	C	18	89	14 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>4</sub> x 20 <sup>5</sup> / <sub>16</sub>
<b>HEAT PUMPS</b>														
RAH-123M	No	3	265	3	5.3/5.1	5.6/5.1	72/70/68	20	Yes	Yes	C	6 <sup>1</sup> / <sub>8</sub>	110	16 <sup>1</sup> / <sub>8</sub> x 23 x 22 <sup>5</sup> / <sub>8</sub>
RAH-183M	Yes	3	541	3	7.8/7.3	8.8/8.3	72/70/68	20	Yes	Yes	C	10	159	18 <sup>5</sup> / <sub>8</sub> x 26 <sup>1</sup> / <sub>2</sub> x 26 <sup>1</sup> / <sub>2</sub>
<b>CASEMENT SERIES</b>														
CD-81M	Yes	3	264	3	6.6	N/A	54/51/48	15	No	Yes	A	8 <sup>1</sup> / <sub>2</sub>	82	20 <sup>15</sup> / <sub>16</sub> x 14 <sup>5</sup> / <sub>8</sub> x 23 <sup>1</sup> / <sub>2</sub>
CD-101M	Yes	3	323	3	8.5	N/A	61/58/56	15	No	Yes	A	8 <sup>1</sup> / <sub>2</sub>	85	20 <sup>15</sup> / <sub>16</sub> x 14 <sup>5</sup> / <sub>8</sub> x 23 <sup>1</sup> / <sub>2</sub>
<b>PORTABLE A/C</b>														
PS-81B	Yes	2	209	2	8.0	N/A	56/52	15	N/A	Yes	A	N/A	59.5	27 <sup>11</sup> / <sub>16</sub> x 13 <sup>5</sup> / <sub>8</sub> x 14
PS-101B	Yes	2	206	2	9.8	N/A	55/51	15	N/A	Yes	A	N/A	62	27 <sup>11</sup> / <sub>16</sub> x 13 <sup>5</sup> / <sub>8</sub> x 14
PS-121B	Yes	3	292	3	11.8	N/A	51/49/47	15	N/A	Yes	A	N/A	78	30 <sup>1</sup> / <sub>8</sub> x 18 <sup>5</sup> / <sub>16</sub> x 15 <sup>5</sup> / <sub>8</sub>
PSH-141A	Yes	3	297	3	13.8	10.8	55/54/53	15	N/A	Yes	A	N/A	83	34 <sup>5</sup> / <sub>8</sub> x 14 <sup>5</sup> / <sub>16</sub> x 17 <sup>7</sup> / <sub>16</sub>

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