



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 ¹⁵ / ₁₆
Width	23 ⁵ / ₈
Depth	25 ⁷ / ₁₆



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 ⁵ / ₈
Width	26 ¹ / ₂
Depth	26 ¹ / ₂



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	27,500/28,000
Approx. Sq. Ft. Cooling	1500-2000
EER	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)	63/61/58
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 ⁵ / ₈
Width	26 ¹ / ₂
Depth	26 ¹ / ₂

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

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
COOLING 5,000 to 10,000 BTUH							
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
COOLING 12,000 to 36,600 BTUH							
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
COOLING WITH ELECTRIC HEAT							
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
THRU-THE-WALL SERIES							
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
HEAT PUMPS							
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
CASEMENT SERIES							
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
PORTABLE A/C							
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)
COOLING 5,000 to 10,000 BTUH														
RG-51M	No	2	136	2	4.0	N/A	55/51	15	No	Yes	A	3 ⁹ / ₁₆	45	12 x 16 x 15 ⁷ / ₁₆
RADS-51P*	No	3	140	3	3.8	N/A	56/53/51	15	No	Yes	A	3 ⁹ / ₁₆	47	12 x 16 x 15 ⁷ / ₁₆
RADS-61P*	No	3	147	3	4.5	N/A	56/54/52	15	No	Yes	A	5	52	13 ⁷ / ₁₆ x 18 ¹ / ₂ x 15 ³ / ₄
RADS-81P*	No	3	224	3	5.9	N/A	60/59/56	15	No	Yes	A	5	58	13 ⁷ / ₁₆ x 18 ¹ / ₂ x 15 ³ / ₄
RADS-101P*	Yes	3	285	3	7.5	N/A	60/58/51	15	No	Yes	A	7 ⁵ / ₁₆	70.6	14 ⁵ / ₈ x 19 x 21 ¹ / ₂
COOLING 12,000 to 36,600 BTUH														
RADS-121P*	Yes	3	300	3	8.7	N/A	61/57/54	15	No	Yes	A	7 ⁵ / ₁₆	78.5	14 ⁵ / ₈ x 19 x 21 ¹ / ₂
RADS-123M	Yes	3	288	3	5.1/4.7	N/A	60/58/55	15	No	Yes	B	7 ⁵ / ₁₆	77	14 ⁵ / ₈ x 19 x 21 ¹ / ₂
RADS-151P*	Yes	3	353	3	11.5	N/A	56/54/53	15	Yes	Yes	A	8	118	17 ¹⁵ / ₁₆ x 23 ⁵ / ₈ x 25 ⁷ / ₁₆
RADS-183P*	Yes	3	360	3	7.5/7.0	N/A	60/57/54	15	Yes	Yes	B	8	129	17 ¹⁵ / ₁₆ x 23 ⁵ / ₈ x 25 ⁷ / ₁₆
RADS-253P*	Yes	3	523	3	11.8/10.8	N/A	63/62/62	20	Yes	Yes	C	10	151	18 ⁵ / ₈ x 26 ¹ / ₂ x 26 ¹ / ₂
RAD-283M	Yes	3	523	3	15.0/13.8	N/A	63/61/58	30	Yes	Yes	D	10	156	18 ⁵ / ₈ x 26 ¹ / ₂ x 26 ¹ / ₂
COOLING WITH ELECTRIC HEAT														
REG-81M	No	3	277	3	6.3	11.6	58/55/52	15	Yes	Yes	A	6 ¹ / ₈	82	16 ¹ / ₈ x 22 ⁵ / ₈ x 23
REG-123M	No	3	279	3	5.2/5.0	16.0/14.5	61/58/55	20	Yes	Yes	C	6 ¹ / ₈	93	16 ¹ / ₈ x 22 ⁵ / ₈ 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 ¹⁵ / ₁₆ x 23 ⁵ / ₈ x 25 ⁷ / ₁₆
REG-253M	Yes	3	523	3	12.4/11.3	22.5/20.0	63/61/58	30	Yes	Yes	D	10	147	18 ⁵ / ₈ x 26 ¹ / ₂ x 26 ¹ / ₂
THRU-THE-WALL SERIES														
BG-81P*	No	3	270	3	7.0	N/A	57/54/52	15	No	Yes [▲]	A	18	76	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BG-101P*	No	3	269	3	8.3	N/A	57/55/53	15	No	Yes [▲]	A	18	80	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BG-103P*	No	3	275	3	4.8/4.5	N/A	58/56/54	15	No	Yes [▲]	B	18	80	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BG-121P*	No	3	286	3	10.0	N/A	61/59/57	15	No	Yes [▲]	A	18	87	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BG-123P*	No	3	286	3	5.6/5.2	N/A	61/59/57	15	No	Yes [▲]	B	18	89	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BG-143M	No	3	296	3	7.5/6.9	N/A	61/60/59	15	No	Yes [▲]	B	18	89	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BGE-103M	No	3	269	3	5.4/5.0	15.0/13.5	57/55/53	20	No	Yes [▲]	C	18	85	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BGE-123M	No	3	286	3	5.9/5.5	15.0/13.5	61/59/57	20	No	Yes [▲]	C	18	89	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
BGE-143M	No	3	296	3	7.5/6.9	15.0/13.5	61/60/59	20	No	Yes [▲]	C	18	89	14 ¹ / ₂ x 24 ¹ / ₄ x 20 ⁵ / ₁₆
HEAT PUMPS														
RAH-123M	No	3	265	3	5.3/5.1	5.6/5.1	72/70/68	20	Yes	Yes	C	6 ¹ / ₈	110	16 ¹ / ₈ x 23 x 22 ⁵ / ₈
RAH-183M	Yes	3	541	3	7.8/7.3	8.8/8.3	72/70/68	20	Yes	Yes	C	10	159	18 ⁵ / ₈ x 26 ¹ / ₂ x 26 ¹ / ₂
CASEMENT SERIES														
CD-81M	Yes	3	264	3	6.6	N/A	54/51/48	15	No	Yes	A	8 ¹ / ₂	82	20 ¹⁵ / ₁₆ x 14 ⁵ / ₈ x 23 ¹ / ₂
CD-101M	Yes	3	323	3	8.5	N/A	61/58/56	15	No	Yes	A	8 ¹ / ₂	85	20 ¹⁵ / ₁₆ x 14 ⁵ / ₈ x 23 ¹ / ₂
PORTABLE A/C														
PS-81B	Yes	2	209	2	8.0	N/A	56/52	15	N/A	Yes	A	N/A	59.5	27 ¹¹ / ₁₆ x 13 ⁵ / ₈ x 14
PS-101B	Yes	2	206	2	9.8	N/A	55/51	15	N/A	Yes	A	N/A	62	27 ¹¹ / ₁₆ x 13 ⁵ / ₈ x 14
PS-121B	Yes	3	292	3	11.8	N/A	51/49/47	15	N/A	Yes	A	N/A	78	30 ¹ / ₈ x 18 ⁵ / ₁₆ x 15 ⁵ / ₈
PSH-141A	Yes	3	297	3	13.8	10.8	55/54/53	15	N/A	Yes	A	N/A	83	34 ⁵ / ₈ x 14 ⁵ / ₁₆ x 17 ⁷ / ₁₆

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