

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—if 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

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.

Heat Pumps

12,000 to 18,000 BTUH



RAH-123G 12,000 BTUH
Nominal

FEATURES

- Electronic controls, wireless remote
- Automatic louver swing
- Thru-the-wall or window mount with support bracket included
- Cooling, heating, fan only and auto operation, energy saver mode
- Switches to supplemental electric heat at 40°F outside temperature

SPECIFICATIONS

| | |
|--------------------------|---------------------------------|
| Cooling Capacity BTUH | 11,200/11,600 |
| Approx. Sq. Ft. Cooling | 450-550 |
| EER | 9.5 |
| Power Supply | 208/230V 60Hz |
| Amps Cooling | 5.9/5.5 |
| Electric Heat Cap. BTUH | 8,500/10,700 |
| Electric Heat Amps | 16.0/14.6 |
| HP Heat Cap. BTUH | 10,000/10,300 |
| Heat Pump Amps | 5.6/5.1 |
| Heat Pump COP | 2.7 |
| Humidity Removal Pts/Hr | 5.3 |
| 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 | 253 |
| 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.) | 115 |
| Dimensions (in.) Height | 15 ⁵ / ₁₆ |
| Width | 22 ⁵ / ₈ |
| Depth | 23 ⁵ / ₈ |



RAH-183G 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 and auto operation, energy saver mode
- Switches to supplemental electric heat at 40°F outside temperature

SPECIFICATIONS

| | |
|--------------------------|--------------------------------|
| Cooling Capacity BTUH | 17,400/17,800 |
| Approx. Sq. Ft. Cooling | 700-1000 |
| EER | 9.0 |
| Power Supply | 208/230V 60Hz |
| Amps Cooling | 9.0/8.5 |
| Electric Heat Cap. BTUH | 9,000/11,000 |
| Electric Heat Amps | 16.0/15.6 |
| HP Heat Cap. BTUH | 15,700/16,000 |
| Heat Pump Amps | 8.8/8.3 |
| Heat Pump COP | 2.64 |
| Humidity Removal Pts/Hr | 4.1 |
| 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 | 570 |
| 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.) | 161 |
| Dimensions (in.) Height | 16 ⁷ / ₈ |
| Width | 26 |
| Depth | 27 ³ / ₄ |