# **Fantasy Series** Air Cooled R410A MT
## DC Inverter Condensing Units

**1.5~4HP**
Rotary Compressor
Single Compressor
Single Fan

**5~12HP**
Rotary Compressor
Single Compressor
Dual Fans

| HP | Model | Power Supply |
|---|---|---|
| 1.5HP | GVRM015NSA2B | 220V-1PH-50~60Hz |
| 2HP | GVRM020NSA2B | 220V-1PH-50~60Hz |
| 2.5HP | GVRM025NSA2B | 220V-1PH-50~60Hz |
| 3.5HP | GVRM035NSA2B | 220V-1PH-50~60Hz |
| 4HP | GVRM040NSA1B | 380V-3PH-50~60Hz |
| 5HP | GVRM050NSA1B | 380V-3PH-50~60Hz |
| 6HP | GVRM060NSA1B | 380V-3PH-50~60Hz |
| 8HP | GVRM080NSA1B | 380V-3PH-50~60Hz |
| 10HP | GVRM100NSA1B | 380V-3PH-50~60Hz |
| 12HP | GVSM120NSA1B | 380V-3PH-50~60Hz |
| 10HP | GVRM100NSA3A | 220V-3PH-60Hz |

## Optional

**Magnetic Air Filter**
One-click cleaning,
Reduce Labor Cost

**Triangular Bracket**
Reduced vibration and leakage

**Hinged Door**
Convenient for maintenance

## Customer Values

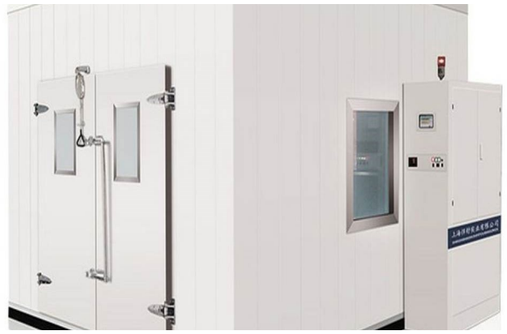
- Wide adjustable range for cooling capacity and small fluctuation in food storage temperature
- Low operation cost and over 30% of annual energy saving compared with Fixed Speed unit
- Low noise unit with 4BA lower sound level compared with Fix speed unit
- Working temperatures range from -30°C to 48°C, available in harsh environments
- No need for a separate machine room; easier to installation
- Optional Remote monitoring, optimize the operation mode

## Product Features

- DC inverter compressor adopted with step-less adjustment of output cooling capacity from 30Hz to 100Hz, supply on demand
- DC inverter fan adopted, adjust the speed according to the end requirements
- Large condensing coils adopted for ensuring operation under high ambient temperature
- Thickened sound insulation cotton with an effective noise insulation
- R410A refrigerant adopted with high volumetric efficiency
- Integrated shell design, compact structure
- With 485 communication interfaces for remote linking, convenient for operation



## Application Scenarios



**MT Electrical/Medical/Food cold room**
Area: 100m²~200m²
Cold room Temp.: -7°C ~ 20°C
OAT: -30°C ~ 48°C

**S-store /C-store /supermarket**
Area: 300m²~2000m²
Cabinet Temp.: -1°C ~ +10°C
OAT: -30°C ~ +48°C

## Technical Parameters

| Model | GVRM 015NSA2B | GVRM 020NSA2B | GVRM 025NSA2B | GVRM 035NSA2B | GVRM 040NSA1B | GVRM 050NSA1B | GVRM 060NSA1B | GVRM 080NSA1B | GVRM 100NSA1B | GVRM 120NSA1B |
|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerant | R410A | | | | | | | | | R410A |
| Supply Voltage of Unit | 220V/1PH/50–60Hz | | | | 380V/3Ph/50–60Hz | | | | | 380V/3Ph/50–60Hz |
| Type of Refrigerant Oil | FV50S | | | | | | | | | MEL32R |
| Number of Fan | 1 | | | | | 2 | | | | 2 |
| Diameter of Fan (mm) | 500 | | | | | | | | | 500 |
| Fan Speed Range (rpm) | 300–850 | | | | | | | | | 300-850 |
| Maximum Air Volume (m³/h) | 4030 | | | | | 7060 | | | | 7060 |
| Reservoir Volume (L) | 4.5 | | | | | 8.8 | | | | 8.8 |
| Evaporating Temperature Range | -15~10 | | | | | | | | | -45~-5 |
| Unit rated cooling Capacity (kW) | 3.1 | 3.7 | 4.9 | 6.6 | 7.8 | 9.6 | 11.4 | 13.8 | 15.2 | 17.9 |
| Unit rated power (kW) | 1.0 | 1.2 | 1.6 | 2.4 | 2.8 | 3.2 | 4.0 | 4.8 | 5.8 | 7.24 |
| Maximum Cooling Capacity of Unit (kW) | 5.3 | 6.4 | 8.1 | 10.1 | 11.9 | 14.0 | 16.3 | 19.1 | 20.6 | 2.5 |
| Maximum Power of Unit (kW) | 1.8 | 2.3 | 3.3 | 5.0 | 6.4 | 5.2 | 6.5 | 8.1 | 9.8 | 20.6 |
| Noise of Unit dBA@1m | 52 | 52 | 53 | 53 | 56 | 56 | 59 | 60 | 60 | 62 |
| Nominal Running Current of Unit (A) | 4.8 | 5.7 | 7.8 | 11.0 | 5.0 | 5.5 | 6.3 | 8.9 | 9.6 | 10 |
| Maximum Running Current (A) | 14 | 20 | 23 | 33 | 17 | 20 | 22 | 27 | 28 | 25 |
| Diameter of Suction Pipe (Inch) | 1/2 | | | 5/8 | | 3/4 | | 7/8 | | 7/8 |
| Diameter of Liquid Pipe (Inch) | 3/8 | | | | | 1/2 | | | | 1/2 |
| Dimensions (L x W x H) (mm) | 1064 X 424 X 802 | | | | | 1064 X 448 X 1358 | | | | 1164 X 470 X 1373 |
| Weight (kg) | 93 | 93 | 95 | 97 | | 142 | 142 | 146 | 150 | 172 |

Notes:
Capacity and power test condition: MT condition per China National Standard GB/T21363-2018;
Evaporating temperature: -7°C, Outdoor Ambient temperature: 32°C, Return gas temperature: 18°C.

## Performance Parameters (1.5~10 HP)

| Model | OAT °C | CAP-Q POW-P P (kW) | -15 | | -12 | | -10 | | -7 | | -5 | | 0 | | 5 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 1.5HP | 27 | Q | 1.1 | 3.9 | 1.3 | 4.4 | 1.4 | 4.8 | 1.6 | 5.4 | 1.8 | 5.9 | 2.2 | 7.0 | 2.7 | 8.4 | 3.3 | 9.9 |
| | | P | 0.4 | 1.6 | 0.4 | 1.7 | 0.4 | 1.7 | 0.4 | 1.8 | 0.5 | 1.8 | 0.5 | 1.9 | 0.5 | 2.1 | 0.5 | 2.2 |
| | 32 | Q | 1.0 | 3.7 | 1.2 | 4.2 | 1.3 | 4.5 | 1.5 | 5.3 | 1.6 | 5.5 | 2.1 | 6.6 | 2.5 | 7.9 | 3.1 | 9.2 |
| | | P | 0.4 | 1.7 | 0.5 | 1.8 | 0.5 | 1.9 | 0.5 | 1.9 | 0.5 | 2.0 | 0.5 | 2.1 | 0.5 | 2.3 | 0.5 | 2.4 |
| | 38 | Q | 0.9 | 3.3 | 1.1 | 3.8 | 1.2 | 4.2 | 1.3 | 4.7 | 1.5 | 5.1 | 1.9 | 6.1 | 2.3 | 7.2 | 2.8 | 8.5 |
| | | P | 0.5 | 1.9 | 0.5 | 2.0 | 0.5 | 2.0 | 0.5 | 2.1 | 0.5 | 2.2 | 0.6 | 2.3 | 0.6 | 2.5 | 0.6 | 2.6 |
| | 43 | Q | 0.8 | 3.1 | 1.0 | 3.5 | 1.1 | 3.8 | 1.2 | 4.3 | 1.3 | 4.7 | 1.7 | 5.7 | 2.1 | 6.7 | 2.6 | 7.9 |
| | | P | 0.5 | 2.1 | 0.5 | 2.2 | 0.5 | 2.2 | 0.6 | 2.3 | 0.6 | 2.3 | 0.6 | 2.5 | 0.6 | 2.6 | 0.6 | 2.8 |
| | 48 | Q | 0.7 | 2.8 | 0.9 | 3.2 | 0.9 | 3.5 | 1.1 | 3.9 | 1.2 | 4.3 | 1.5 | 5.2 | 1.9 | 6.2 | 2.3 | 7.3 |
| | | P | 0.5 | 2.2 | 0.5 | 2.3 | 0.6 | 2.4 | 0.6 | 2.5 | 0.6 | 2.5 | 0.6 | 2.7 | 0.7 | 2.8 | 0.7 | 3.0 |
| 2HP | 27 | Q | 1.4 | 4.9 | 1.6 | 5.6 | 1.7 | 6.1 | 2.0 | 6.8 | 2.1 | 7.4 | 2.6 | 8.8 | 3.2 | 10.4 | 3.9 | 12.1 |
| | | P | 0.6 | 1.9 | 0.6 | 2.0 | 0.6 | 2.1 | 0.6 | 2.2 | 0.6 | 2.2 | 0.6 | 2.4 | 0.6 | 2.6 | 0.6 | 2.8 |
| | 32 | Q | 1.3 | 4.6 | 1.4 | 5.2 | 1.6 | 5.7 | 1.8 | 6.4 | 2.0 | 6.9 | 2.4 | 8.3 | 3.0 | 9.8 | 3.6 | 11.3 |
| | | P | 0.6 | 2.1 | 0.6 | 2.2 | 0.6 | 2.3 | 0.6 | 2.4 | 0.6 | 2.4 | 0.6 | 2.6 | 0.6 | 2.8 | 0.6 | 3.0 |
| | 38 | Q | 1.1 | 4.2 | 1.3 | 4.8 | 1.4 | 5.2 | 1.7 | 5.8 | 1.8 | 6.3 | 2.2 | 7.6 | 2.7 | 9.0 | 3.3 | 10.4 |
| | | P | 0.7 | 2.3 | 0.7 | 2.4 | 0.7 | 2.5 | 0.7 | 2.6 | 0.7 | 2.7 | 0.7 | 2.9 | 0.7 | 3.1 | 0.7 | 3.3 |
| | 43 | Q | 1.0 | 3.8 | 1.2 | 4.4 | 1.3 | 4.7 | 1.5 | 5.3 | 1.7 | 5.8 | 2.1 | 6.9 | 2.5 | 8.3 | 3.0 | 9.7 |
| | | P | 0.7 | 2.5 | 0.7 | 2.6 | 0.7 | 2.7 | 0.8 | 2.8 | 0.8 | 2.9 | 0.8 | 3.1 | 0.8 | 3.3 | 0.8 | 3.6 |
| | 48 | Q | 0.9 | 3.4 | 1.1 | 3.9 | 1.2 | 4.2 | 1.4 | 4.8 | 1.5 | 5.2 | 1.9 | 6.3 | 2.3 | 7.4 | 2.8 | 8.9 |
| | | P | 0.7 | 2.6 | 0.8 | 2.8 | 0.8 | 2.9 | 0.8 | 3.0 | 0.8 | 3.1 | 0.9 | 3.4 | 0.9 | 3.6 | 0.9 | 3.8 |
| 2.5HP | 27 | Q | 1.8 | 6.5 | 2.1 | 7.4 | 2.2 | 8.0 | 2.5 | 8.9 | 2.7 | 9.6 | 3.3 | 11.4 | 4.0 | 13.3 | 4.8 | 15.4 |
| | | P | 0.7 | 2.8 | 0.7 | 2.9 | 0.7 | 2.9 | 0.7 | 3.0 | 0.7 | 3.1 | 0.7 | 3.3 | 0.7 | 3.5 | 0.7 | 3.8 |
| | 32 | Q | 1.7 | 6.1 | 1.9 | 6.9 | 2.1 | 7.5 | 2.4 | 8.1 | 2.6 | 9.0 | 3.1 | 10.7 | 3.8 | 12.5 | 4.5 | 14.5 |
| | | P | 0.7 | 3.1 | 0.7 | 3.2 | 0.7 | 3.2 | 0.8 | 3.3 | 0.8 | 3.4 | 0.8 | 3.6 | 0.8 | 3.8 | 0.8 | 4.1 |
| | 38 | Q | 1.5 | 5.5 | 1.8 | 6.3 | 1.9 | 6.8 | 2.2 | 7.6 | 2.4 | 8.2 | 2.9 | 9.9 | 3.5 | 11.6 | 4.2 | 13.3 |
| | | P | 0.8 | 3.3 | 0.8 | 3.5 | 0.8 | 3.6 | 0.9 | 3.7 | 0.9 | 3.8 | 0.9 | 4.0 | 0.9 | 4.2 | 0.9 | 4.5 |
| | 43 | Q | 1.4 | 4.9 | 1.6 | 5.6 | 1.8 | 6.1 | 2.0 | 6.9 | 2.2 | 7.5 | 2.7 | 9.0 | 3.2 | 10.6 | 3.9 | 12.4 |
| | | P | 0.9 | 3.5 | 0.9 | 3.7 | 0.9 | 3.8 | 0.9 | 4.0 | 0.9 | 4.1 | 1.0 | 4.3 | 1.0 | 4.6 | 1.0 | 4.8 |
| | 48 | Q | 1.2 | 4.3 | 1.4 | 4.9 | 1.6 | 5.4 | 1.8 | 6.1 | 2.0 | 6.7 | 2.5 | 8.1 | 3.0 | 9.6 | 3.6 | 11.4 |
| | | P | 0.9 | 3.7 | 1.0 | 3.9 | 1.0 | 4.0 | 1.0 | 4.2 | 1.0 | 4.3 | 1.1 | 4.6 | 1.1 | 4.9 | 1.1 | 5.1 |
| 3.5HP | 27 | Q | 2.6 | 8.6 | 2.9 | 9.7 | 3.1 | 10.4 | 3.5 | 11.7 | 3.7 | 12.5 | 4.4 | 14.6 | 5.2 | 16.9 | 6.2 | 19.1 |
| | | P | 1.0 | 4.1 | 1.0 | 4.4 | 1.0 | 4.5 | 1.0 | 4.7 | 1.0 | 4.9 | 1.1 | 5.4 | 1.1 | 6.0 | 1.1 | 6.6 |
| | 32 | Q | 2.4 | 8.0 | 2.7 | 9.0 | 2.9 | 9.6 | 3.3 | 10.1 | 3.5 | 11.5 | 4.2 | 13.7 | 5.0 | 15.8 | 5.9 | 17.9 |
| | | P | 1.1 | 4.5 | 1.1 | 4.7 | 1.1 | 4.9 | 1.1 | 5.1 | 1.1 | 5.4 | 1.2 | 5.8 | 1.2 | 6.4 | 1.2 | 7.0 |
| | 38 | Q | 2.3 | 7.1 | 2.6 | 8.0 | 2.8 | 8.6 | 3.1 | 9.6 | 3.3 | 10.3 | 4.0 | 12.1 | 4.7 | 14.1 | 5.5 | 16.0 |
| | | P | 1.2 | 4.8 | 1.2 | 5.1 | 1.2 | 5.4 | 1.2 | 5.7 | 1.3 | 5.9 | 1.3 | 6.4 | 1.3 | 7.0 | 1.4 | 7.6 |
| | 43 | Q | 2.1 | 6.2 | 2.4 | 7.1 | 2.6 | 7.7 | 2.9 | 8.6 | 3.1 | 9.2 | 3.7 | 10.8 | 4.4 | 12.6 | 5.2 | 14.1 |
| | | P | 1.3 | 5.0 | 1.3 | 5.4 | 1.3 | 5.6 | 1.3 | 6.0 | 1.4 | 6.2 | 1.4 | 6.8 | 1.5 | 7.4 | 1.5 | 8.0 |
| | 48 | Q | 2.0 | 5.2 | 2.2 | 6.0 | 2.4 | 6.5 | 2.7 | 7.3 | 2.9 | 7.8 | 3.5 | 9.5 | 4.1 | 11.0 | 4.8 | 12.6 |
| | | P | 1.4 | 5.2 | 1.4 | 5.6 | 1.4 | 5.8 | 1.5 | 6.2 | 1.5 | 6.4 | 1.5 | 7.1 | 1.6 | 7.7 | 1.6 | 8.4 |
| 4HP | 27 | Q | 2.9 | 9.8 | 3.3 | 10.9 | 3.6 | 11.8 | 4.1 | 13.1 | 4.4 | 14.0 | 5.3 | 16.5 | 6.4 | 19.0 | 7.6 | 21.4 |
| | | P | 1.1 | 4.9 | 1.2 | 5.3 | 1.2 | 5.5 | 1.2 | 5.8 | 1.3 | 6.1 | 1.3 | 6.7 | 1.3 | 7.4 | 1.4 | 8.2 |
| | 32 | Q | 2.7 | 8.8 | 3.1 | 9.9 | 3.4 | 10.7 | 3.8 | 11.9 | 4.1 | 12.8 | 5.0 | 14.9 | 6.0 | 17.7 | 7.1 | 19.9 |
| | | P | 1.2 | 5.4 | 1.2 | 5.8 | 1.3 | 6.0 | 1.3 | 6.4 | 1.3 | 6.7 | 1.4 | 7.3 | 1.5 | 8.1 | 1.5 | 8.9 |
| | 38 | Q | 2.5 | 7.6 | 2.8 | 8.6 | 3.1 | 9.3 | 3.5 | 10.4 | 3.8 | 11.2 | 4.6 | 13.1 | 5.5 | 15.1 | 6.6 | 16.9 |
| | | P | 1.3 | 5.8 | 1.3 | 6.2 | 1.4 | 6.5 | 1.4 | 6.9 | 1.5 | 7.2 | 1.5 | 7.9 | 1.6 | 8.6 | 1.7 | 9.4 |
| | 43 | Q | 2.3 | 6.6 | 2.6 | 7.5 | 2.9 | 8.1 | 3.2 | 9.1 | 3.5 | 9.8 | 4.3 | 11.5 | 5.1 | 13.2 | 6.1 | 14.7 |
| | | P | 1.4 | 6.2 | 1.4 | 6.6 | 1.5 | 6.9 | 1.5 | 7.3 | 1.5 | 7.6 | 1.6 | 8.3 | 1.7 | 9.0 | 1.8 | 9.8 |
| | 48 | Q | 2.0 | 5.5 | 2.3 | 6.3 | 2.6 | 6.9 | 2.9 | 7.7 | 3.2 | 8.3 | 3.9 | 9.8 | 4.7 | 11.2 | 5.6 | 12.7 |
| | | P | 1.4 | 6.5 | 1.5 | 6.9 | 1.5 | 7.2 | 1.6 | 7.6 | 1.7 | 7.9 | 1.8 | 8.7 | 1.9 | 9.4 | 1.9 | 10.2 |





## Performance Parameters (1.5~10 HP)

| Model | OAT °C | CAP-Q POW-P P (kW) | -15 | | -12 | | -10 | | -7 | | -5 | | 0 | | 5 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 5HP | 27 | Q | 3.0 | 10.8 | 3.4 | 12.3 | 3.7 | 13.3 | 4.2 | 15.0 | 4.5 | 16.2 | 5.5 | 19.4 | 6.6 | 22.9 | 8.0 | 26.7 |
| | | P | 1.1 | 4.2 | 1.1 | 4.4 | 1.1 | 4.5 | 1.2 | 4.7 | 1.2 | 4.9 | 1.2 | 5.2 | 1.3 | 5.7 | 1.3 | 6.1 |
| | 32 | Q | 2.8 | 10.0 | 3.2 | 11.5 | 3.4 | 12.4 | 3.9 | 14.0 | 4.2 | 15.1 | 5.2 | 18.1 | 6.3 | 21.4 | 7.5 | 25.0 |
| | | P | 1.2 | 4.8 | 1.2 | 5.0 | 1.3 | 5.1 | 1.3 | 5.3 | 1.3 | 5.4 | 1.3 | 5.8 | 1.4 | 6.2 | 1.4 | 6.7 |
| | 38 | Q | 2.5 | 9.1 | 2.9 | 10.3 | 3.1 | 11.3 | 3.6 | 12.7 | 3.9 | 13.8 | 4.8 | 16.7 | 5.7 | 19.7 | 6.9 | 23.0 |
| | | P | 1.3 | 5.4 | 1.4 | 5.6 | 1.4 | 5.8 | 1.4 | 6.0 | 1.4 | 6.1 | 1.5 | 6.5 | 1.6 | 7.0 | 1.6 | 7.5 |
| | 43 | Q | 2.3 | 8.1 | 2.6 | 9.3 | 2.9 | 10.2 | 3.3 | 11.6 | 3.6 | 12.6 | 4.4 | 15.2 | 5.3 | 18.2 | 6.4 | 21.2 |
| | | P | 1.5 | 5.9 | 1.5 | 6.2 | 1.5 | 6.3 | 1.6 | 6.6 | 1.6 | 6.8 | 1.6 | 7.2 | 1.7 | 7.6 | 1.8 | 8.1 |
| | 48 | Q | 2.1 | 7.0 | 2.4 | 8.2 | 2.6 | 9.0 | 3.0 | 10.3 | 3.3 | 11.2 | 4.1 | 13.7 | 4.9 | 16.4 | 5.9 | 19.4 |
| | | P | 1.6 | 6.3 | 1.6 | 6.6 | 1.6 | 6.8 | 1.7 | 7.1 | 1.7 | 7.3 | 1.8 | 7.9 | 1.8 | 8.3 | 1.9 | 8.8 |
| 6HP | 27 | Q | 3.5 | 12.7 | 4.0 | 14.4 | 4.4 | 15.6 | 5.0 | 17.5 | 5.4 | 18.9 | 6.7 | 22.5 | 8.1 | 26.4 | 9.7 | 30.7 |
| | | P | 1.3 | 5.3 | 1.3 | 5.5 | 1.3 | 5.7 | 1.4 | 6.0 | 1.4 | 6.2 | 1.4 | 6.7 | 1.6 | 7.3 | 1.7 | 7.9 |
| | 32 | Q | 3.3 | 11.7 | 3.8 | 13.3 | 4.1 | 14.5 | 4.7 | 16.3 | 5.1 | 17.6 | 6.2 | 21.1 | 7.5 | 24.8 | 9.1 | 28.7 |
| | | P | 1.4 | 5.7 | 1.4 | 6.0 | 1.5 | 6.2 | 1.5 | 6.5 | 1.5 | 6.8 | 1.6 | 7.3 | 1.7 | 7.9 | 1.8 | 8.6 |
| | 38 | Q | 3.0 | 10.6 | 3.4 | 12.1 | 3.7 | 13.1 | 4.3 | 14.8 | 4.6 | 16.0 | 5.7 | 19.2 | 6.9 | 22.8 | 8.3 | 26.4 |
| | | P | 1.5 | 6.4 | 1.6 | 6.8 | 1.6 | 6.9 | 1.7 | 7.2 | 1.7 | 7.5 | 1.8 | 8.1 | 1.9 | 8.7 | 2.0 | 9.4 |
| | 43 | Q | 2.7 | 9.5 | 3.1 | 10.9 | 3.4 | 11.9 | 3.9 | 13.5 | 4.3 | 14.6 | 5.3 | 17.5 | 6.4 | 21.1 | 7.7 | 24.4 |
| | | P | 1.7 | 6.9 | 1.7 | 7.3 | 1.7 | 7.5 | 1.8 | 7.9 | 1.8 | 8.2 | 1.9 | 8.7 | 2.0 | 9.4 | 2.1 | 10.1 |
| | 48 | Q | 2.4 | 8.3 | 2.8 | 9.6 | 3.1 | 10.5 | 3.5 | 12.0 | 3.9 | 13.0 | 4.8 | 15.8 | 5.9 | 18.7 | 7.1 | |
| | | P | 1.8 | 7.2 | 1.8 | 7.6 | 1.9 | 8.0 | 1.9 | 8.4 | 2.0 | 8.7 | 2.0 | 9.5 | 2.2 | 10.0 | 2.2 | |
| 8HP | 27 | Q | 4.3 | 14.7 | 4.8 | 16.9 | 5.3 | 18.3 | 5.9 | 20.6 | 6.4 | 22.2 | 7.8 | 26.4 | 9.3 | 31.0 | 11.1 | 35.8 |
| | | P | 1.6 | 6.8 | 1.7 | 7.0 | 1.7 | 7.2 | 1.8 | 7.6 | 1.8 | 7.8 | 1.9 | 8.5 | 2.0 | 9.1 | 2.1 | 9.9 |
| | 32 | Q | 4.0 | 13.5 | 4.6 | 15.4 | 4.9 | 16.8 | 5.6 | 19.1 | 6.0 | 20.6 | 7.3 | 24.6 | 8.8 | 28.9 | 10.4 | 33.4 |
| | | P | 1.7 | 7.3 | 1.8 | 7.6 | 1.8 | 7.9 | 2.0 | 8.2 | 2.0 | 8.4 | 2.1 | 9.1 | 2.2 | 9.8 | 2.3 | 10.6 |
| | 38 | Q | 3.7 | 12.0 | 4.2 | 13.8 | 4.6 | 15.0 | 5.2 | 17.0 | 5.6 | 18.5 | 6.8 | 22.5 | 8.1 | 26.4 | 9.7 | 30.6 |
| | | P | 1.9 | 7.9 | 2.0 | 8.3 | 2.0 | 8.6 | 2.1 | 9.0 | 2.2 | 9.3 | 2.3 | 9.9 | 2.4 | 10.6 | 2.5 | 11.5 |
| | 43 | Q | 3.4 | 10.6 | 3.9 | 12.3 | 4.2 | 13.5 | 4.8 | 15.4 | 5.2 | 16.7 | 6.3 | 20.2 | 7.6 | 24.4 | 9.0 | 28.0 |
| | | P | 2.1 | 8.2 | 2.1 | 8.7 | 2.2 | 9.1 | 2.3 | 9.6 | 2.4 | 9.9 | 2.5 | 10.6 | 2.6 | 11.3 | 2.7 | 12.2 |
| | 48 | Q | 3.1 | 9.1 | 3.6 | 10.7 | 3.9 | 11.7 | 4.4 | 13.5 | 4.8 | 14.7 | 5.8 | 18.0 | 7.0 | | 8.3 | |
| | | P | 2.3 | 8.5 | 2.3 | 9.1 | 2.5 | 9.4 | 2.5 | 10.0 | 2.6 | 10.4 | 2.7 | 11.3 | 2.8 | | 2.9 | |
| 10HP | 27 | Q | 5.4 | 16.1 | 6.1 | 18.3 | 6.6 | 20.0 | 7.4 | 22.5 | 8.0 | 24.2 | 9.6 | 28.7 | 11.4 | 33.5 | 13.5 | 38.4 |
| | | P | 1.8 | 7.9 | 1.9 | 8.3 | 1.9 | 8.5 | 2.0 | 9.0 | 2.0 | 9.3 | 2.1 | 10.2 | 2.3 | 11.2 | 2.4 | 12.3 |
| | 32 | Q | 5.0 | 14.6 | 5.7 | 16.8 | 6.2 | 18.3 | 7.0 | 20.6 | 7.5 | 22.2 | 9.0 | 26.8 | 10.8 | 31.3 | 12.7 | 35.9 |
| | | P | 2.0 | 8.5 | 2.1 | 9.0 | 2.2 | 9.4 | 2.2 | 9.9 | 2.3 | 10.2 | 2.4 | 11.0 | 2.5 | 12.0 | 2.7 | 13.2 |
| | 38 | Q | 4.6 | 12.9 | 5.3 | 14.9 | 5.7 | 16.3 | 6.5 | 18.4 | 7.0 | 20.0 | 8.4 | 24.0 | 10.0 | 28.6 | 11.8 | 32.8 |
| | | P | 2.3 | 9.2 | 2.4 | 9.8 | 2.4 | 10.2 | 2.5 | 10.8 | 2.6 | 11.2 | 2.7 | 12.1 | 2.8 | 13.0 | 3.0 | 14.2 |
| | 43 | Q | 4.3 | 11.4 | 4.9 | 13.2 | 5.3 | 14.5 | 6.0 | 16.5 | 6.5 | 18.0 | 7.9 | 21.7 | 9.4 | 25.7 | 11.1 | |
| | | P | 2.6 | 9.7 | 2.7 | 10.5 | 2.7 | 10.9 | 2.8 | 11.5 | 2.8 | 12.0 | 3.0 | 13.0 | 3.1 | 14.1 | 3.3 | |
| | 48 | Q | 3.9 | 9.7 | 4.5 | 11.4 | 4.9 | 12.6 | 5.5 | 14.5 | 6.0 | 15.8 | 7.3 | | 8.7 | | 10.3 | |
| | | P | 2.9 | 10.0 | 2.9 | 10.8 | 3.0 | 11.4 | 3.1 | 12.1 | 3.1 | 12.7 | 3.3 | | 3.4 | | 3.6 | |

## Performance Parameters (12 HP)

| Model | OAT °C | CAP-Q POW-P P (kW) | -30 | | -25 | | -20 | | -15 | | -12 | | -10 | | -7 | | -5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 12HP | 27 | Q | 5.7 | 9.6 | 6.9 | 11.6 | 8.3 | 14.0 | 9.9 | 16.7 | 11.0 | 18.5 | 11.7 | 19.7 | 12.9 | 21.6 | 13.7 | 23.0 |
| | | P | 3.6 | 6.0 | 3.7 | 6.3 | 3.8 | 6.8 | 4.0 | 7.3 | 4.1 | 7.6 | 4.2 | 7.9 | 4.3 | 8.3 | 4.4 | 8.5 |
| | 32 | Q | 5.5 | 9.2 | 6.7 | 11.1 | 8.0 | 13.4 | 9.5 | 16.0 | 10.6 | 17.7 | 11.3 | 18.8 | 12.4 | 20.6 | 13.2 | 21.9 |
| | | P | 4.1 | 6.6 | 4.2 | 7.0 | 4.3 | 7.5 | 4.5 | 8.0 | 4.6 | 8.3 | 4.7 | 8.6 | 4.9 | 9.0 | 5.0 | 9.3 |
| | 38 | Q | 5.3 | 8.7 | 6.4 | 10.5 | 7.6 | 12.7 | 9.1 | 15.0 | 10.0 | 16.6 | 10.7 | 17.7 | 11.8 | 19.4 | 12.5 | 20.6 |
| | | P | 4.8 | 7.5 | 4.8 | 7.9 | 5.0 | 8.3 | 5.1 | 8.9 | 5.3 | 9.2 | 5.4 | 9.5 | 5.5 | 9.9 | 5.6 | 10.2 |
| | 43 | Q | 5.0 | 8.2 | 6.1 | 10.0 | 7.3 | 12.0 | 8.7 | 14.3 | 9.6 | 15.8 | 10.2 | 16.8 | 11.2 | 18.4 | 11.9 | 19.5 |
| | | P | 5.4 | 8.2 | 5.5 | 8.6 | 5.6 | 9.1 | 5.7 | 9.7 | 5.9 | 10.1 | 6.0 | 10.3 | 6.1 | 10.7 | 6.2 | 11.0 |