



Submittal Data: ROSHAXFWJ
Inverter Driven Heat Pump

18,000 BTU Wall Mount

Job Name: _____

Date: _____

Location: _____

Approval: _____

Engineer: _____

Construction: _____

Submitted to: _____

Unit #: _____

Submitted by: _____

Drawing #: _____

Reference: _____

General Features

- Wired or wireless remote
- Apple catechin filter
- Ion deodorizing filter
- Auto louver: up/down
- Auto louver: 4-way
- Low ambient cooling
- Cold prevention
- Sleep timer
- 24-hour timer
- Blue fin coating

Model Information

Condenser..... ROSHAXFWJ
Evaporator..... RIWH18AVFJ

Electrical..... 208/230 V AC 1ph-60HZ

Available Voltage Range..... 187 - 253 V +/- 10%
Max Fuse Size..... 20 A
Max Operating Current (Evaporator)..... 14.5 A
Starting Current (Condenser)..... 8.0 A

Input Power
Cooling..... 1.35 kW
Heating..... 1.75 kW

Running Current
Cooling..... 6.2 A
Heating..... 7.8 A

Capacity

Nominal Cooling..... 18,000 Btu/h
Min-Max Cooling..... 7,000 – 23,000 Btu/h
Nominal Heating..... 21,600 Btu/h
Min-Max Heating..... 7,000 – 29,000 Btu/h

Compressor..... Rotary x1

Motor Output..... 2,100 W
Refrigerant..... R410a
Charge..... 4 lbs. 10.1 oz.
Oil..... POE (RB68)

Fan Motor

Type: DC (condenser)..... Propeller x1
Type: DC (evaporator)..... Cross flow fan x1
Motor Output (condenser)..... 100 W
Motor Output (evaporator)..... 53 W

Heat Exchanger

Condenser
(H x W x D) in. (mm)..... 31-7/16 x 35-7/16 x 1-7/16 (798x900x36.4)
Fin Pitch..... 20 FPI
Rows x Stages..... 2 x 38
Pipe Type (Material)..... Grooved H-Pin (Copper)
Fin Type (Material)..... Aluminum (Blue Fin)



Operation Temperature Range

Cooling..... -5°F to 115°F (-20°C - 46°C)
Heating..... -5°F to 75°F (-20°C - 24°C)

Efficiency

SEER..... 20.0
EER (cooling)..... 3.90 kW/kW
COP (heating)..... 3.62 kW/kW
HSPF (heating)..... 10.5 Btu/hW

Enclosure

Material
Evaporator..... Polystyrene
Condenser..... Painted galvanized steel
Color
Condenser..... Beige (10 YR 7.5/1.0 NN)
Evaporator..... White

Sound Pressure Level

Condenser (max)..... 50 dB(A)
Evaporator (max)..... 44 dB(A)

Dimensions

H x W x D
Condenser in. (mm)..... 32-3/4 x 35-3/8 x 13 (830x900x330)
Evaporator in. (mm)..... 12-5/8 x 39-1/4 x 9 (320x998x228)

Connection Pipe

Liquid..... Ø3/8 in. (Ø9.52 mm)
Gas..... Ø5/8 in. (Ø15.88 mm)
Method (Liquid/Gas)..... Flare
Minimum Length..... 16 ft.
Max Length {(Pre-charge)}..... 164 ft. (50 m) {(66 ft.) (20 m)}
Max Height Difference..... 98 ft. (30 m)

Weight

Condenser..... 135 lbs. (61 kg)
Evaporator..... 31 lbs. (14 kg)

Accessories

RXRNNUM..... Wired remote control
RXRVNUM..... Wired remote control
RXRSNUM..... Wired remote control (simple)
RXXWZXZ5..... Dry contact wire kit



Dimensions: ROSH18AXFWJ

[Unit: in. (mm)]

