

**Submittal Data: 12RL2
Inverter Driven Heat Pump**

12,000 BTU Heat Pump System

Job Name: _____

Date: _____

Location: _____

Approval: _____

Engineer: _____

Construction: _____

Submitted to: _____

Unit #: _____

Submitted by: _____

Drawing #: _____

Reference: _____

General Features

- Refrigerant Type R410A.
- Wireless remote controller
- Automatic airflow adjustment
- Auto/Cool/Dry/Fan/Heat modes
- Program timer
- Powerful mode
- 5- Years Parts, 7-Years Compressor Warranty (See Warranty Statement for details)

Model Information

Outdoor..... AOU12RL2
Indoor..... ASU12RL2

Electrical..... 115 V AC 1ph-60Hz

Available Voltage Range..... 103.5 - 126.5 V +/- 10%

Max Fuse Size..... 20 A

Max Operating Current

Indoor..... 1.0 A

Outdoor..... 15.0 A

Input Power

Cooling..... 1.20 kW

Heating..... 1.21 kW

Running Current

Cooling..... 10.9 A

Heating..... 11.0 A

Capacity

Nominal Cooling..... 12,000 Btu/h

Min-Max Cooling..... 3,100 – 12,500 Btu/h

Nominal Heating..... 14,000 Btu/h

Min-Max Heating..... 3,100 – 16,000 Btu/h

Compressor..... Rotary x1

Motor Output..... 700 W

Refrigerant..... R410a

Charge..... 1 lbs. 12 oz.

Oil..... VG74

Fan Motor

Type: DC (condenser)..... Propeller x 1

Type: DC (evaporator)..... Cross flow x1

Motor Output (condenser)..... 23 W

Motor Output (evaporator)..... 28 W

Heat Exchanger

Condenser

(H x W x D) in. (mm)..... 19-27/32 x 24-3/32 x 23 / 32/19-27/32 x 25-9/32 x 23/32
(504x650x18.2/504x642x18.2)

Fin Pitch..... 18 FPI

Rows x Stages..... 2 x 24

Pipe Type (Material)..... Grooved H-Pin (Copper)

Type (Material)..... Corrugate (Aluminum)

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.44°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB.

Heating: Indoor temperature of 70°F (21.11°C) DB/59°F (15.°C) WB, and outdoor temperature of 47°F (8.33°C) DB/43°F (6.11°C) WB.

Pipe length: 24ft. 7in. (7.5m), Height difference: 0ft. (0m) (Outdoor unit – indoor unit)

Operation Temperature Range

Cooling..... 15°F to 115°F (-10°C - 46°C)

Heating..... 15°F to 75°F (-10°C - 24°C)

Efficiency

SEER..... 16.0

EER (cooling)..... 10.0

COP (heating)..... 11.55

HSPF (heating)..... 9.0

Enclosure

Material..... Painted galvanized steel

Color

Condenser..... Beige (10 YR 7.5/1.0 NN)

Evaporator..... White

Sound Pressure Level

Outdoor (max)..... 48 dB(A)

Indoor (max)..... 43 dB(A)

Dimensions

H x W x D

Outdoor in. (mm)..... 21-1/4 x 26 x 11-11/32 in. (540x660x290)

Indoor in. (mm)..... 10-3/32 x 24 x 13/16 x 25/32 (256x630x20)

Connection Pipe

Liquid..... Ø1/4 in. (Ø6.35 mm)

Gas..... Ø3/8 in. (Ø9.52 mm)

Method (Liquid/Gas)..... Flare

Max Length {(Pre-charge)}..... 66 ft. (20 m) {(49 ft.) (15 m)}

Max Height Difference..... 49 ft. (15 m)

Weight

Outdoor..... 69 lbs. (31 kg)

Indoor..... 16 lbs. (7 kg)

Safety Devices

Circuit Protection

Current fuse (main printed circuit board).... 25A/250V / 3.15A/250V / 3.15A/250V

Fan Motor Protection

Terminal protection program..... Off: 302°F (150°C) On: 248°F (120°C)

Compressor Protection

Terminal protection program (comp. temp.)..... Off: 230°F (110°C) On: After 7 minutes



Dimensions: 12RL2

[Unit: in. (mm)]

