

Submittal Data: 12RLS3H
Inverter Driven Heat Pump

12,000 BTU Heat Pump System

Job Name: Dan Branguyone

Date: 7-18-17

Location: 56 Ashley Lane, Portland 04103

Approval: _____

Engineer: n/a

Construction: _____

Submitted to: City of Portland

Unit #: _____

Submitted by: Doggin Energy

Drawing #: _____

Reference: n/a

General Features

- Refrigerant Type R410A.
- Human Sensor
- Wired and wireless remote controllers
- Double swing automatic
- Automatic airflow adjustment
- Low noise mode
- Powerful mode
- 5- Years Parts, 7-Years Compressor Warranty (See Warranty Statement for details)
- Program timer
- Weekly time

Model Information

Outdoor..... AOU12RLS3H

Indoor..... ASU12RLS3

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

Available Voltage Range..... 208/230 +/- 10%

Minimum Circuit Ampacity..... 14.4 A

Max Fuse Size..... 15A

Max Starting Current..... 3.3 A

Input Power

Cooling..... 0.79 kW

Heating..... 1.01 kW

Running Current

Cooling..... 3.8 A

Heating..... 4.7 A

Capacity

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

Min-Max Cooling..... 3,100-13,600 Btu/h

Nominal Heating..... 16,000 Btu/h

Min-Max Heating..... 3,100-22,000 Btu/h

Compressor..... Rotary (inv x1)

Motor Output..... 850W

Refrigerant..... R410a

Charge..... 2 lbs. 14 oz.

Oil..... FREOL a68SZ

Fan Motor

(Condense-) Type: DC..... Propeller x1

(Condense-) Motor Output..... 49 W

(Evaporator) Type: DC..... Cross flow fan x1

(Evaporator) Motor Output..... 61 W

Heat Exchanger (Condenser (C) Evaporator (E))

Dimensions (H x W x D)

Condenser..... 23-1/8 x 34-11/16 x 1-7/16 in. (588x881x36.4 mm)

Evaporator..... Main 15-1/8 x 28-3/8 x 1-3/16 in. (384x720x30) Sub 3-5/16 x 28-3/8 x 1/2 in. (84x720x13.3 mm) 4-15/16 x 28-3/8 x 1/2 in. (126x720x13.3 mm)

Fin Pitch..... 20 FPI (C) Main 21 FPI Sub 18 FPI (E)

Rows x Stages..... 2 x 28 (C) Main 3 x 24 Sub 1 x 10 (E)

Pipe Type (Material)..... Copper (C) Copper (E)

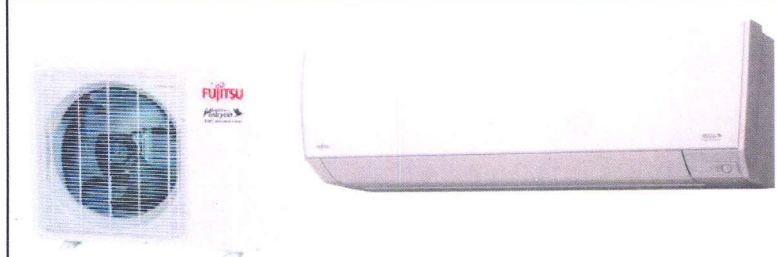
Fin Type (Material)..... Aluminum (C) Aluminum (E)

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB.

Heating: Indoor temperature of 70°F (21.1°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..... 14°F (-10°C) to 115°F (46°C)

Heating..... -15°F (-26°C) to 75°F (24°C)

Efficiency

SEER..... 29.3

EER (cooling)..... 4.46 kW/kW

COP (heating)..... 4.64 kW/kW / 15.8 Btu/hW

HSPF (heating)..... 14 Btu/hW

Enclosure (Condenser)

Material..... Painted galvanized steel

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

Sound Pressure Level

Outdoor..... 47 dB(A)

Indoor..... 42 dB(A)

Dimensions

H x W x D

Outdoor in. (mm)..... 24-1/2 (620) x 31-1/8 (790) x 11-7/16 (290)

Indoor in. (mm)..... 11- 5/8 (295) x 37 (940) x 10-5/8 (270)

Connection Pipe

Liquid..... 1/4" / 6.35 mm Flare

Gas..... 3/8" / 9.52 mm Flare

Method (Liquid/Gas)..... Brazing

Max Length (Pre-charge)..... 65 ft.(20 m) / (49 ft. {15 m})

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

Weight

Outdoor..... 86 lbs (38 kg)

Indoor..... 31 lbs (14 kg)

Accessories

Wired Remote Controller..... UTY-RVNUM

Wired Remote Controller..... UTY-RNNUM

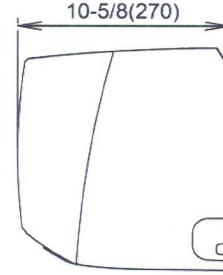
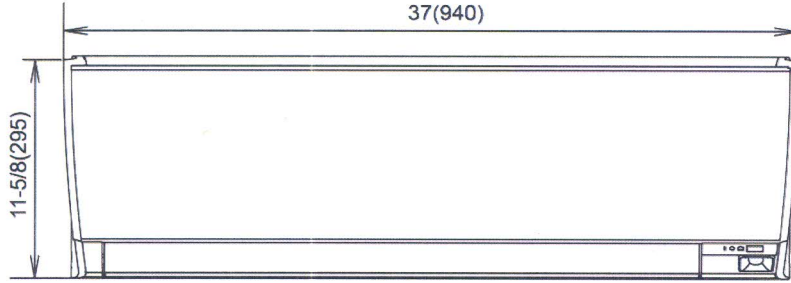
Simple Remote Controller..... UTY-RSNUM

Communication Kit..... UTY-TWBXF1

External Connection Kit..... UTY-XWZZX5

Dimensions: 12RLS3H

[Unit: in. (mm)]



3/4(19)

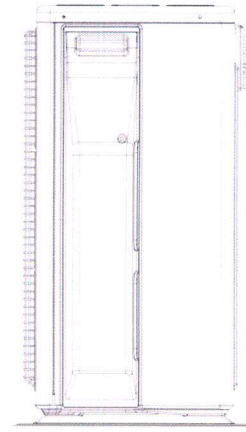
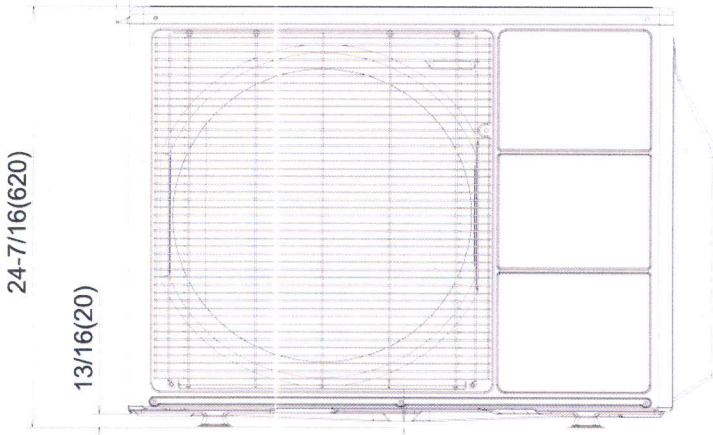
31-1/8(790)

2-5/8(67)

11/16(18)

11-5/16(288)

7/8(23)



3/8(9)

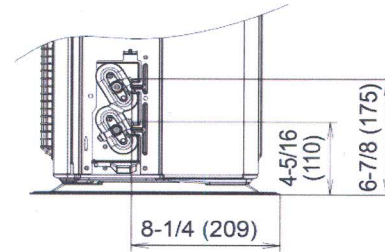
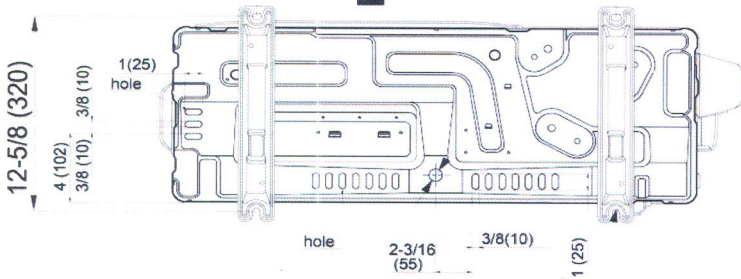
Front view

13-7/8(352)

Side view

21-1/4 (540)

Air flow



ø13/16 (20) hole

4-ø7/16 (11.3) hole

Bottom view