

Submittal Data: 24RLXFZH
Inverter Driven Heat Pump

24,000 BTU Multi Zone System

Job Name: Laura Russell
 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Date: 4-20-17
 Approval: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

General Features

- Refrigerant Type R410A.
- Extra long piping allotment
- Wired and wireless remote controllers
- Automatic airflow adjustment
- Economy operation
- Base pan heater
- 5- Years Parts, 7-Years Compressor Warranty (See Warranty Statement for details)
- 24 hr. Timer
- Low operating temperature

Model Information

Outdoor..... AOU24RLXFZH
 Indoor *1..... (ASU) / (ARU) / (AGU) / (AUU) 7,9,12RLF(1)
 Connectable indoor units..... 2 - 3
 Total capacity range..... 14,000 – 27,000 Btu/h

Electrical..... 208/230V AC 1ph-60Hz
 Available Voltage Range..... 208/230 +/- 10%
 Minimum Circuit Ampacity..... 25.1 A
 Max Fuse Size..... 30 A
 Max Starting Current..... 8.3 A

Input Power

Cooling..... (non-duct) 1.65 kW / (ducted) 1.81 kW / (mix) 1.74 kW
 Heating..... (non-duct) 1.81 kW / (ducted) 1.89 kW / (mix) 1.85 kW

Current

Cooling..... (non-duct) 7.2 A / (ducted) 7.9 A / (mix) 7.6 A
 Heating..... (non-duct) 7.9 A / (ducted) 8.3 A / (mix) 8.1 A

Capacity

Nominal Cooling..... 22,000 Btu/h
 Min-Max Cooling..... 6,100 – 27,000 Btu/h
 Nominal Heating..... 25,000 Btu/h
 Min-Max Heating..... 6,800 – 29,800 Btu/h

Compressor

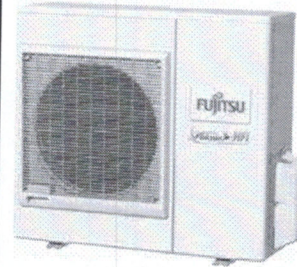
Motor Output..... Rotary (inv x1) 2,100 W
 Refrigerant..... R410a
 Charge..... 4 lbs. 14 oz
 Oil..... RB68

Fan Motor

(Condenser) Type: DC..... Propeller x1
 (Condenser) Motor Output..... 100 W
 (Evaporator) Type: DC..... (wall-mount) Cross flow
 (compact cassette) Turbo
 (ducted) Sirocco
 (floor) Cross flow x2
 (Evaporator) Motor Output..... (wall) 30W-42W (compact cassette) 54W (ducted) 80-81 W
 (floor) 16W

Heat Exchanger

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



Operation Temperature Range

Cooling..... 14°F (-10°C) - 115°F (-46°C)
 Heating..... -15°F (-15°C) - 75°F (-24°C)

Efficiency

SEER*2..... (wall-mount) 20 (duct) 18 (mix) 19
 EER (cooling)..... (wall-mount) 13.3 Btu/W (duct) 12.1 Btu/W (mix) 12.7 Btu/W
 COP (heating)..... (wall-mount) 4.04 W/W (duct) 3.87 W/W (mix) 3.96 W/W
 HSPF (heating)..... (wall-mount) 10.3 (duct) 9 (mix) 9.7

Enclosure (Condenser)

Material..... Painted galvanized steel
 Color..... Beige (10 YR 7.5/1.0 NN)

Sound Pressure Level

Outdoor..... 52 dB(A)

Dimensions

H x W x D
 Condenser
 Net in. (mm)..... 32-11/16 x 35-7/16 x 13 (830x900x330)
 Gross in. (mm)..... 38-3/16 x 41-5/16 x 17-1/2 (970x1,050x445)

Connection Pipe

Liquid..... 1/4" x3
 Gas..... 3/8" x2 + 1/2" x1
 Method (Liquid/Gas)..... Brazing
 Max Length (Pre-charge)..... 229ft. (70m) / (98 ft. {30m})
 Max Height Difference..... 49 ft. (15m)

Weight

Outdoor..... 146 lbs. (66 kg)
 Indoors..... (wall-mount) 19 lbs. - 31 lbs.
 (compact cassette) 33 lbs.
 (ducted) 37 lbs. - 49 lbs.
 (floor) 31 lbs.

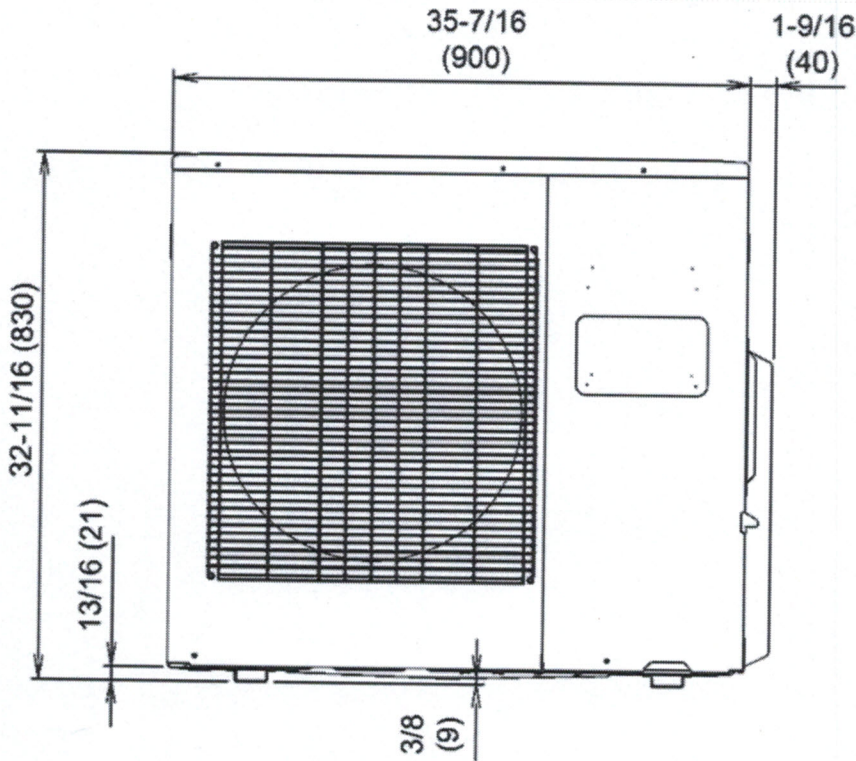
Accessories

Wired Remote Controller..... UTY-RVNUM
 Wired Remote Controller..... UTY-RNNUM
 Simple Remote Controller..... UTY-RSNUM

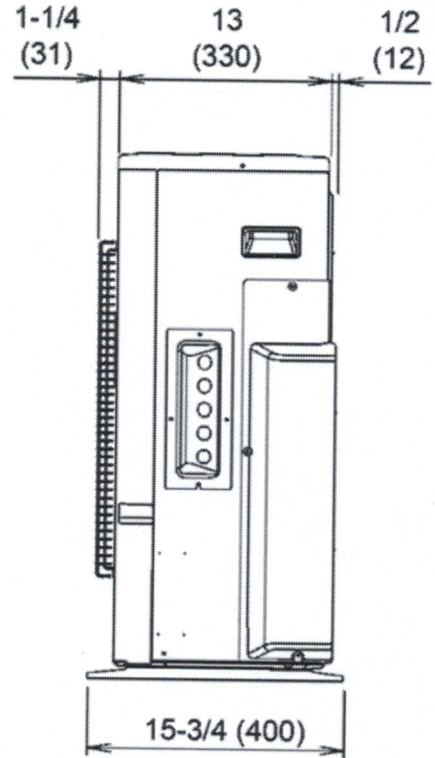
*1 Reference brochure for approved combinations. *2 Test conditions are based on AHRI 210/240.
 Note: Specifications are based on the following conditions. Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.44°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB. Heating: Indoor temperature 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. 7m. (7.5m). Height difference: 0ft. (0m) (Outdoor unit – indoor unit)

Dimensions: 24RLXFZH

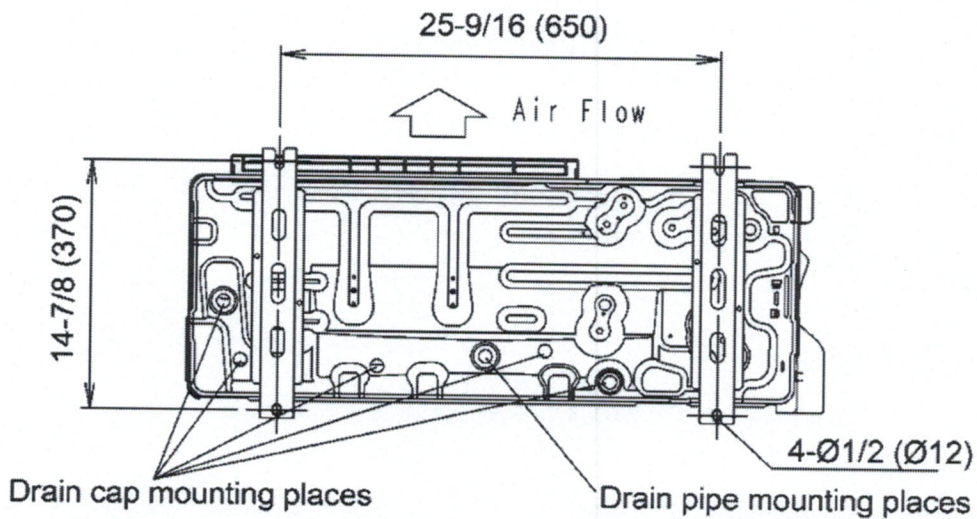
[Unit: in. (mm)]



Front view



Side view



Bottom view

**Submittal Data:ASU12RLF1
Inverter Driven Heat Pump**

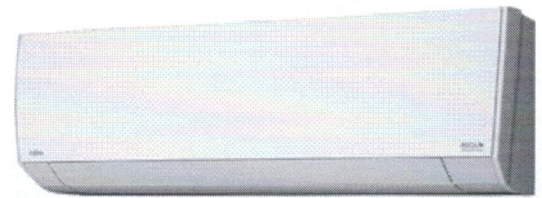
12,000 BTU Wall Mount Type

Job Name: _____
 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Date: _____
 Approval: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

General Features

- Refrigerant Type R410A.
- Wired and wireless remote controllers
- Auto changeover
- Weekly timer
- Removable open panel
- Super quiet operation
- Removable air filter
- Program timer
- 5 years standard parts warranty
- Eligible for 10 year or 12 year parts warranty. See warranty statement for details.



Model Information

Evaporator..... ASU12RLF1
 Condenser compatibility..... AOU12RLFW1, AOU18RLXFZ, AOU18RLXFZH
 AOU24RLXFZ, AOU24RLXFZH
 AOU36RLXFZ, AOU36RLXFZ1, AOU36RLXFZH
 AOU45RLXFZ, AOU48RLXFZ1

Electrical..... 208/230V AC 1ph-60Hz
 Available Voltage Range..... 208/230 +/- 10%
 Minimum Circuit Ampacity..... 0.25 A
 Full Load Amps..... 0.20 A
 Input Power 22 W
 Running Current..... 0.19 A

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

Fan Motor
 Type: DC Cross flow x1
 Motor Output..... 30 W
 Fan Motor Protection..... off: 221 ± 18°F (105 ± 10°C)
 on: 194 ± 18°F (90 ± 10°C)

Airflow Rate
 Cooling (High / Medium / Low / Quiet)
 388 CFM (660 m3/h) / 330 CFM (560 m3/h) / 265 CFM (450 m3/h) / 182 CFM (310 m3/h)
 Heating (High / Medium / Low / Quiet)
 388 CFM (660 m3/h) / 330 CFM (560 m3/h) / 277 CFM (470 m3/h) / 194 CFM (330 m3/h)

Heat Exchanger
 Dimensions
 (H x W x D) in. (mm)..... 12-5/8 x 24-13/16 x 13/16 (320x630x20)
 Fin Pitch..... Main 23 FPI / Sub 18 FPI
 Rows x Stages..... Main 2 x20 / Sub 1 x4
 Pipe Type (Material)..... Copper
 Type (Material)..... Aluminum

Temperature Setting Range

Cooling..... 64°F - 90°F (18°C - 32 °C)
 Heating..... 60°F - 88°F (16°C - 30°C)

Enclosure

Material..... Galvanized Steel Sheet

Sound Pressure Level

Cooling
 High/Medium/Low/Quiet..... 40 dB (A) / 36 dB (A) / 30 dB (A) / 21 dB (A)
 Heating
 High/Medium/Low/Quiet..... 40 dB (A) / 36 dB (A) / 31 dB (A) / 22 dB (A)

Dimensions

H x W x D
 in. (mm)..... 10-9/16 x 33-1/16 x 8 (268x840x203)

Connection Pipe

Liquid..... 1/4" in. (6.35 mm)
 Gas..... 3/8" in. (9.52 mm)
 Method (Liquid/Gas)..... Flare
 Drain hose
 Material..... PP + LLDPE
 Size..... Ø9/16 (I.D.), Ø5/8 to Ø11/16 [Ø13.8 (I.D.), Ø15.8 to Ø16.7 O.D.]

Weight

Net..... 19 lbs. (8.5 kg)
 Gross..... 23 lbs. (10.5 kg)

Accessories

Wired Remote Controller..... UTY-RNNUM
 Backlit Display..... UTY-RVNUM
 Simple Remote Controller..... UTY-RSNUM
 Dry Contact Wire Kit..... UTY-XWZZX25
 Interface Kit..... UTY-XCBXZ2

Intertek®ETL Number

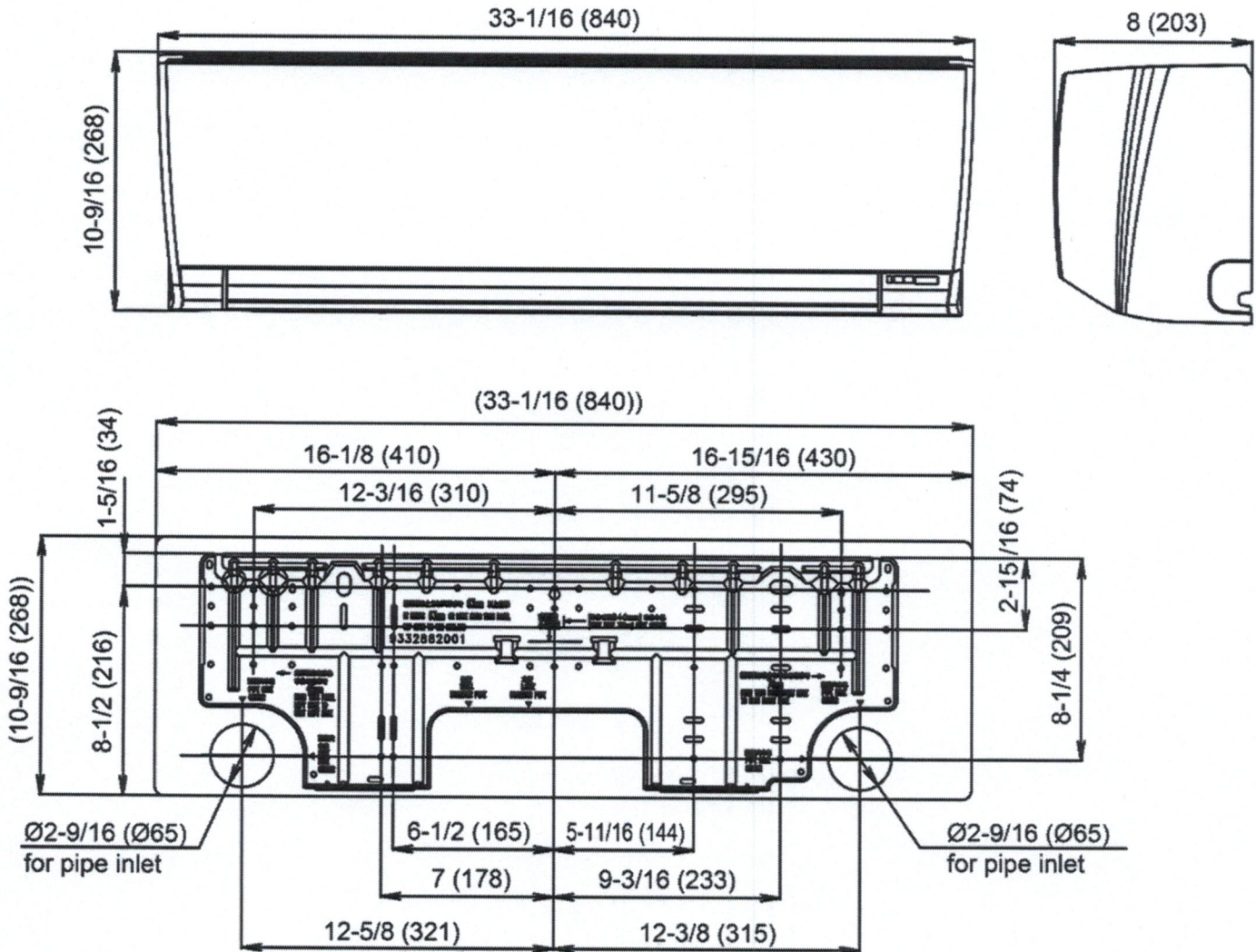
ASU12RLF1..... 91986

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)



Dimensions: ASU12RLF1

[Unit: in. (mm)]



**Submittal Data: ASU9RLF1
Inverter Driven Heat Pump**

9,000 BTU Wall Mount Type

Job Name: _____
 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Date: _____
 Approval: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

General Features

- Refrigerant Type R410A.
- Wired and wireless remote controllers
- Auto changeover
- Weekly timer
- Removable open panel
- Super quiet operation
- Removable air filter
- Program timer
- 5 years standard parts warranty
- Eligible for 10 year or 12 year parts warranty. See warranty statement for details.

Model Information

Evaporator..... ASU9RLF1
 Condenser compatibility..... AOU9RLFW1, AOU18RLXFZ, AOU18RLXFZH
 AOU24RLXFZ, AOU24RLXFZH
 AOU36RLXFZ, AOU36RLXFZ1, AOU36RLXFZH
 AOU45RLXFZ, AOU48RLXFZ1

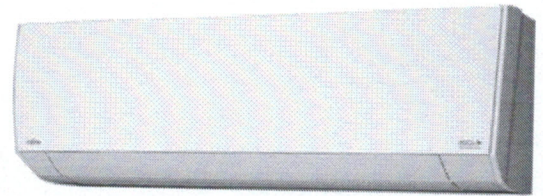
Electrical 208/230V AC 1ph-60Hz
 Available Voltage Range..... 208/230 +/- 10%
 Minimum Circuit Ampacity..... 0.20 A
 Full Load Amps..... 0.16 A
 Input Power 17 W
 Running Current..... 0.15 A

Capacity
 Nominal Cooling..... 9,000 Btu/h

Fan Motor
 Type: DC Cross flow x1
 Motor Output..... 30 W
 Fan Motor Protection..... off: 221 ± 18°F (105 ± 10°C)
 on: 194 ± 18°F (90 ± 10°C)

Airflow Rate
 Cooling (High / Medium / Low / Quiet)
 353 CFM (600 m3/h) / 306 CFM (520 m3/h) / 253 CFM (430 m3/h) / 182 CFM (310 m3/h)
 Heating (High / Medium / Low / Quiet)
 353 CFM (600 m3/h) / 306 CFM (520 m3/h) / 253 CFM (430 m3/h) / 194 CFM (330 m3/h)

Heat Exchanger
 Dimensions
 (H x W x D) in. (mm)..... 12-5/8 x 24-13/16 x 13/16 (320x630x20)
 Fin Pitch..... Main 23 FPI / Sub 18 FPI
 Rows x Stages..... Main 2 x20 / Sub 1 x4
 Pipe Type (Material)..... Copper
 Type (Material)..... Aluminum



Temperature Setting Range

Cooling..... 64°F - 90°F (18°C - 32°C)
 Heating..... 60°F - 88°F (16°C - 30°C)

Enclosure

Material..... Galvanized Steel Sheet

Sound Pressure Level

Cooling
 High/Medium/Low/Quiet..... 37 dB (A) / 33 dB (A) / 29 dB (A) / 21 dB (A)
 Heating
 High/Medium/Low/Quiet..... 37 dB (A) / 33 dB (A) / 29 dB (A) / 22 dB (A)

Dimensions

H x W x D
 in. (mm)..... 10-9/16 x 33-1/16 x 8 (268x840x203)

Connection Pipe

Liquid..... 1/4" in. (6.35 mm)
 Gas..... 3/8" in. (9.52 mm)
 Method (Liquid/Gas)..... Flare
 Drain hose
 Material..... PP + LLDPE
 Size..... Ø9/16 (I.D.), Ø5/8 to Ø11/16 [Ø13.8 (I.D.), Ø15.8 to Ø16.7 O.D.]

Weight

Net..... 19 lbs. (8.5 kg)
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Accessories

Wired Remote Controller..... UTY-RNNUM
 Backlit Display..... UTY-RVNUM
 Simple Remote Controller..... UTY-RSNUM
 Dry Contact Wire Kit..... UTY-XWZXZ5
 Interface Kit..... UTY-XCBXZ2

Intertek® ETL Number

ASU9RLF1..... 91986

Note: Specifications are based on the following conditions.
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Dimensions: ASU9RLF1

[Unit: in. (mm)]

