

15. VERIFICATION OF PROPOSED HVAC EQUIPMENT

15.1 OVERVIEW

The following manufacturer cut sheets verify that all proposed HVAC and manufacturing equipment meets applicable state and federal emissions requirements.

15.2 ATTACHMENTS

Attachment 15-A – HVAC Equipment Cut Sheets

ATTACHMENT 15-A

HVAC Equipment Cut Sheets

System 12RLFC D Submittal

AOU12RLFC, ARU12RLF

Compact Duct

Job Name: _____ Approval: _____ Date: _____
 Location: _____ Construction: _____
 Engineer: _____ Unit #: _____
 Submitted to: _____ Drawing #: _____
 Submitted by: _____ Reference: _____



Outdoor Unit Power 208-230/VAC-1Ph-60Hz
 Available Voltage Range 187-253VAC
 Fuse Size, Max. 15A
 MCA 13.4A

Compressor Inverter Driven Variable Speed DC Rotary
 No. used 1
 Output 850W
 Lubrican Oil POE (RB68)

Fan type Propeller
 Motor Output 115W
 Airflow Rate Cooling/Heating (High) 1206 / 1083CFM

Refrigerant 410A
 Outdoor Unit 2lbs 10oz
 Control Electronic Expansion Valve
 O.D. Discharge (in) 1/4"(Flare)
 O.D. Suction (in) 3/8"(Flare)

Dimensions H x W x D
 Uncrated (in) 24-1/2 x 31-3/32 x 11-11/32
 (mm) (620 x 790 x 290)
 Crated (in) 28-1/16 x 37-7/32 x 15-9/16
 (mm) (713 x 945 x 395)

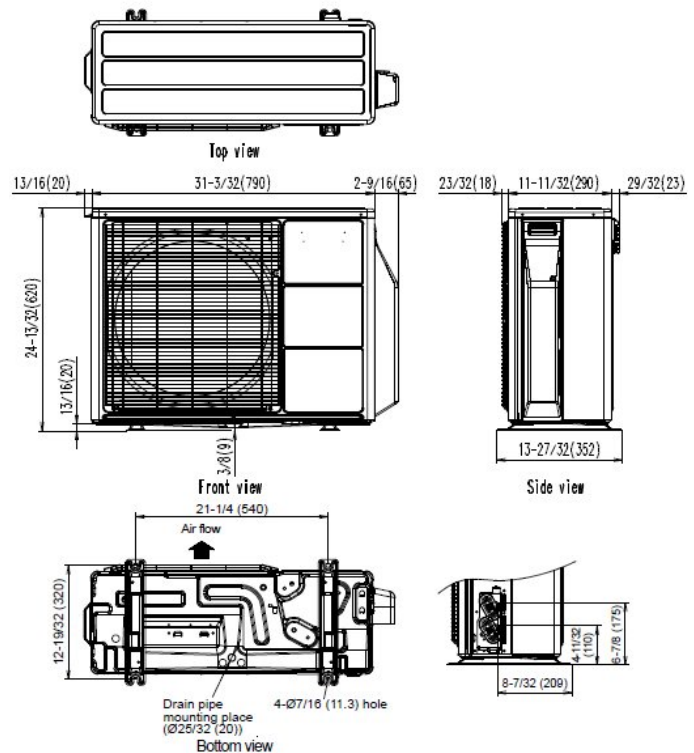
Weight Outdoor
 Net 84lbs (38kg)
 Gross Shipping 93lbs (42kg)

Cooling
 Rated Capacity 12,000BTU/h
 Min-Max Capacity 3,100~13,600BTU/h
 Rated Power Input 0.94kw
 Max. Power Input 1.45kw
 SEER 20.0
 Outdoor Sound Rating 49dB

Heating
 Rated Capacity 16,000BTU/h
 Min-Max Capacity 3,100~19,400BTU/h
 Rated Power Input 1.30kw
 Max. Power Input 2.00kw
 HSPF 11.5
 Outdoor Sound Rating 50dB

Piping Lengths
 Max. Piping Length (Total) 66ft
 Max. Pipe Height Difference 49ft
 Connection method (Flared)

Operating Range
 Cooling 14°F~115°F DB
 Heating -5°F~75°F DB



Fujitsu General America, Inc.
 Fairfield, NJ 07004
 Toll Free: 1-888-888-3424
 Fax: (973) 836-0447
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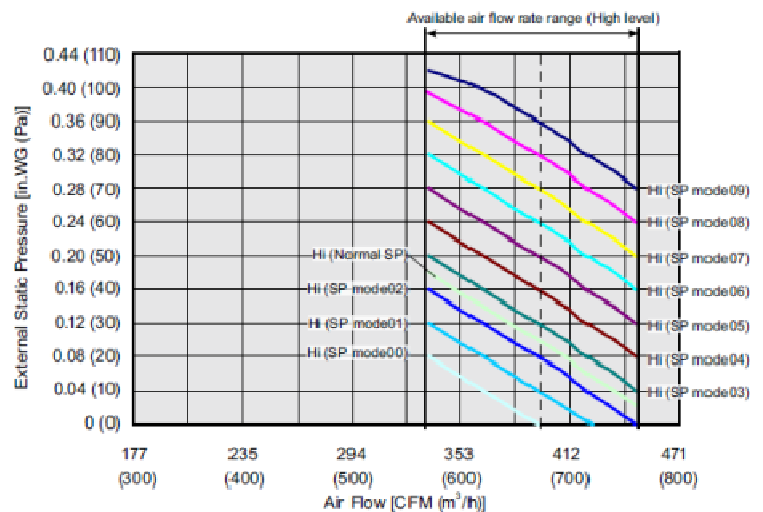
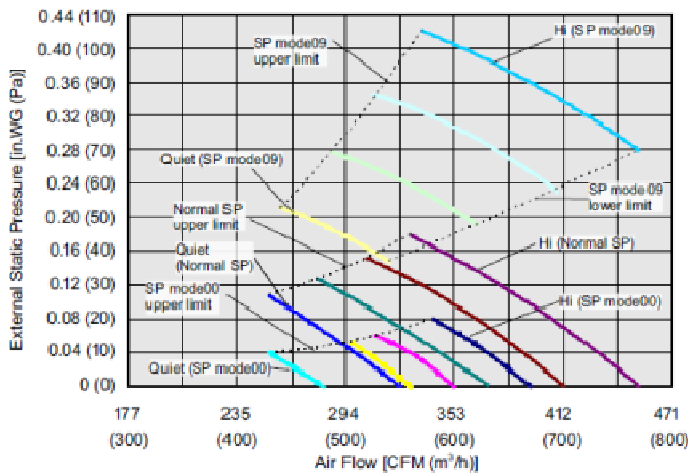


Power	V/Hz/P	230/60/1
Fan type		Sirocco
No. Motors	(W)	2 (81)
CFM [.10 in.WG]	(Hi,Me,Lo,Qu)	383/353/324/283
Sound Pressure Level	db (Hi,Me,Lo,Qu)	29/28/27/26
F.L. A.	(A)	.37
Refrigerant		410A
O.D. Discharge	in (mm)	Ø1/4" (6.35)
O.D. Suction	in (mm)	Ø3/8" (9.52)
Dimensions		H x W x D
Uncrated	(in)	7-25/32 × 27-9/16 × 24-13/32
	(mm)	(198 × 700 × 620)
Crated	(in)	10-7/8 × 38-1/8 × 29-3/4
	(mm)	(276 × 968 × 756)
Weight		
Net	lbs. (kg)	41 (19)
Gross Shipping	lbs. (kg)	55 (25)

Cooling Capacity	(BTU/h)	12,000
Moisture Removal	pt/h (l/h)	2.7 (1.3)
Heating Capacity	(BTU/h)	13,500
Temperature Setting Range		
Cooling	°F(°C)	64~90 (18~32)
Heating	°F(°C)	60~88 (16~31)
Drain Pipe Size**	OD in	Ø1-1/16
	ID in	Ø3/4
Remote Control Type		Wired
Electrical Connection*	AWG	14/3 with ground

*Power and communication are fed from the outdoor unit.

**Adapter to 3/4" PVC included with unit.



Note:

Specifications are based on the following conditions.

Power source of specifications : 230V

Cooling: Indoor temperature of 80°F(26.67°C)DB / 67°F(19.44°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.89°C)WB.

Heating: Indoor temperature of 70°F(21.11°C)DB / 60°F(15.56°C)WB, and outdoor temperature of 47°F(8.33°C)DB/43°F(6.11°C)WB.

Standard Static Pressure: 0.10in.WG (25Pa)

Pipe length : 16.4ft. (5m) [Outdoor unit - Branch box], 9.8ft. (3m) [Branch box - Indoor unit]

Height difference : 0 ft.(0m) [Outdoor unit - Indoor unit]

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**Submission Data: 18RLFCD
Inverter Driven Heat Pump**

18,000 BTU Slim Compact Duct

Job Name: _____

Date: _____

Location: _____

Approval: _____

Engineer: _____

Construction: _____

Submitted to: _____

Unit #: _____

Submitted by: _____

Drawing #: _____

Reference: _____

General Features

- Wired remote controller
- Weekly timer
- Dry mode
- Auto louver: up/down
- Auto mode
- Auto changeover
- Low ambient cooling
- Cold prevention
- Daisy chain
- Condensate pump
- Standard Warranty: 5 years parts, 7 years compressor. Applies to systems purchased before June 1st 2015*
- Extended Warranty: 10 years parts, 10 years compressor. Systems that have been installed on or after June 1st 2015 by licensed contractors and the online Product Registration has been submitted.**
- Elite Contractor Extended Warranty: 12 years parts, 12 years compressor. Systems that have been installed on or after June 1st 2015 by contractors who have met requirements and have been approved for elite contractor status plus, the online Product Registration has been submitted.***



Temperature Setting Range

Cooling..... 14°F - 115°F (-10°C - 46°C)
Heating..... -5°F - 75°F (-21°C - 24°C)

Efficiency

SEER..... 19.7
EER (cooling)..... 3.52 kW/kW
COP (heating)..... 3.79 kW/kW
HSPF (heating)..... 11.3 Btu/hW
Moisture Removal..... 4.2 pints/h / 2.0 liters/h

Enclosure

(Condenser) Material..... Steel
(Condenser) Color..... Beige (approximate color or Munsell 10 YR 7.5/1.0)
(Evaporator) Material..... Galvanized steel sheet

Sound Pressure Level

Condenser..... 55 dB (A)
Evaporator..... 32 dB (A)

Dimensions

H x W x D
Condenser in. (mm)..... 24-1/2 x 31-3/32 x 11-11/32 (620x790x290)
Evaporator in. (mm)..... 7-25/32 x 35-7/16 x 24-13/32 (198x900x620)

Connection Pipe

Liquid..... 1/4" in. (6.35 mm)
Gas..... 1/2" in. (12.7 mm)
Method (Liquid/Gas)..... Flare
Internal Drain Pump Lift..... 27-9/16"

Weight

Condenser..... 86 lbs. (39 kg)
Evaporator..... 50 lbs. (23 kg)

Accessories

UTY-RNNUM..... Wired remote controller
UTY-RVNUM..... Wired remote controller (backlit, shows room temp.)
UTY-RSNUM..... Wired remote controller (simple)
UTY-XSZX..... Remote sensor
UTY-LRHUM..... Receiver unit
UTD-ECS5A..... Slim duct connector kit
UTD-GXSA-W..... Auto louver grille kit

Intertek® ETL Number

AOU18RLFCD..... 91986
ARU18RLF..... 3170288

Fujitsu General America, Inc.

353 Route 46 West

Fairfield, NJ 07004

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Fax: (973) 836-0447

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Model Information

Condenser..... AOU18RLFCD
Evaporator..... ARU18RLF

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

Available voltage range..... 208/230 +/- 10%

Minimum circuit ampacity..... 17.3 A

Max fuse size..... 20 A

Rated Current

Cooling..... 6.6 A

Heating..... 7.3 A

Input Power

Cooling..... 1.50 kW

Heating..... 1.67 kW

Capacity

Nominal cooling..... 18,000 Btu/h

Min-max cooling..... 3,100 - 20,100 Btu/h

Nominal heating..... 21,600 Btu/h

Min-max heating..... 3,100 - 25,600 Btu/h

Compressor

Motor output..... 1,000 W

Refrigerant..... R410a

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

Oil..... FREOL α68SZ

Fan Motor

(Condenser) Type: DC..... Propeller fan x1

(Condenser) Motor Output..... 115 W

(Evaporator) Type..... Sirocco fan x3

(Evaporator) Motor Output..... 96 W

Heat Exchanger

Condenser

(H x W x D) in. (mm)..... 23-5/32 x 34-11/16 x 1-7/16 (588x881x36.4)

Fin Pitch..... 20 FPI

Rows x stages..... 2 x 28

Pipe type (Material)..... Copper

Type (Material)..... Aluminum

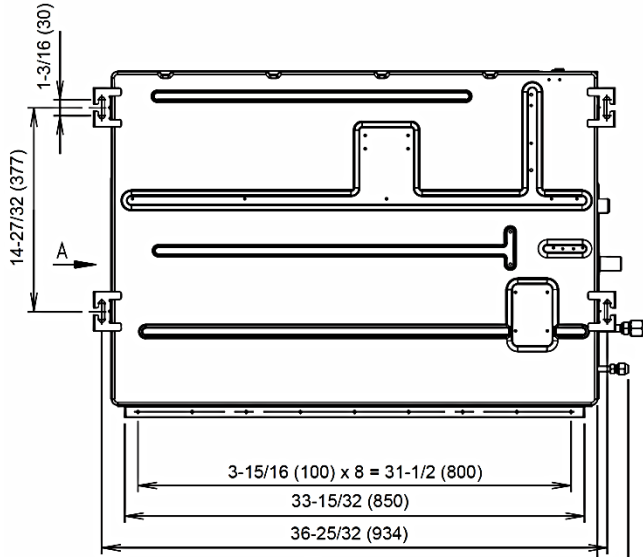
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Heating: Indoor temperature of 70°F (21.11°C) DB/59°F (15°C) WB, and outdoor temperature of 47°F (8.33°C) DB/43°F (6.11°C) WB.
Pipe length: 24ft. Tin. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit)

(*Standard warranty / **10 year warranty / ***12 year warranty)

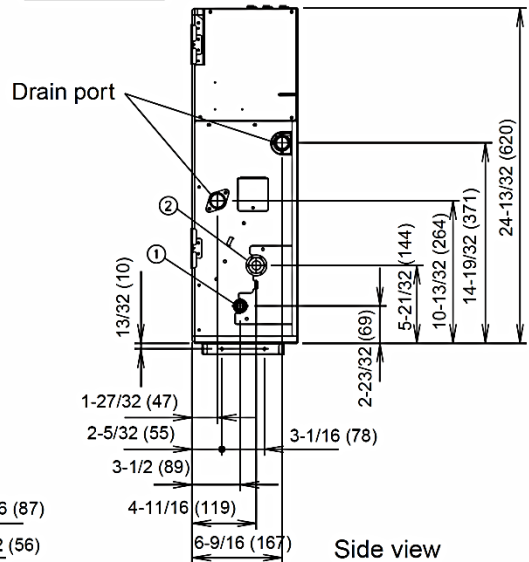
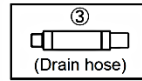


Dimensions: 18RLFCD

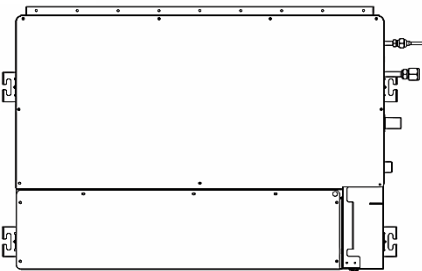
[Unit: in. (mm)]



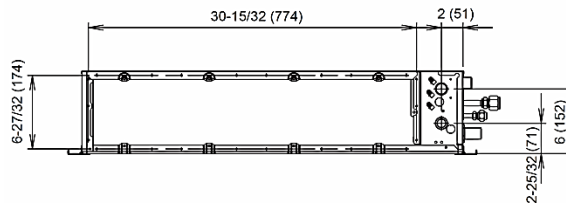
Top view



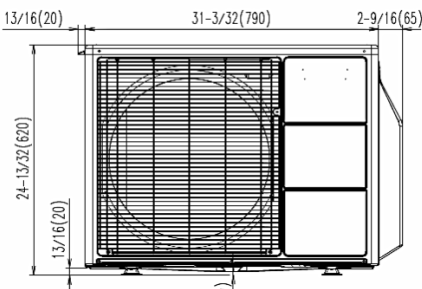
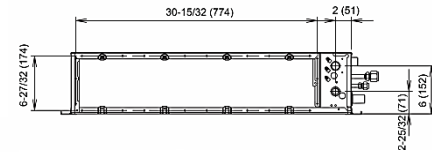
Side view



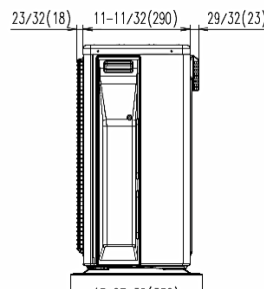
Front view



Side view



Front view



Side view

