



# 18,000 BTU/H LOW STATIC DUCTED HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

PROJECT NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

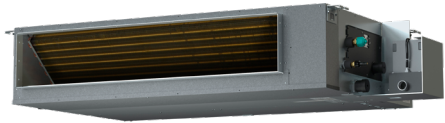
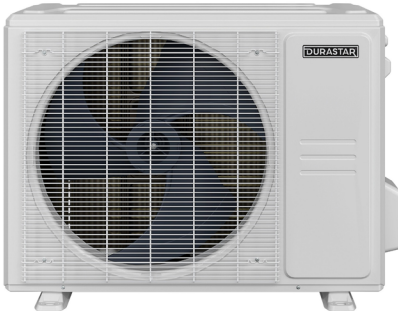

ARCHITECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

REFERENCE \_\_\_\_\_

SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_

Indoor Unit (IDU): DRADL18F2A	Outdoor Unit (ODU): DRA1U18S2A	Wired Thermostat: DRSTAT101
		

## PRODUCT FEATURES

- Variable Speed Inverter Compressor
- A2L refrigerant detection system
- Horizontal and vertical installation
- External drain pump included (in horizontal installation only)
- Static pressure up to 0.4 in. WC
- DRSTAT101 programmable wired thermostat included
- Turbo, ECO, Sleep modes and more
- Quiet operation
- Low ambient heating down to -13 °F
- Low ambient cooling down to -13 °F
- Included base pan heater
- Anti-corrosive fin coating

CAPACITIES		
Cooling Capacity (BTU/hr)	Rated at 95°F (35°C) <sup>1</sup>	17000
	at 109° (43°C)	14300
	at 5° (-15°C)	19000
	Cooling Range	7000 - 19000
Heating Capacity (BTU/hr)	Rated at 47°F (8°C) <sup>2</sup>	20000
	Rated at 17°F (-8°C) <sup>3</sup>	14000
	Rated at 5°F <sup>4</sup>	14000
	at -13° (-25°C)	7500
	Heating Range	5500 - 22000

## SYSTEM DATA

Refrigerant Type	R-454B
Refrigerant Charge (oz. (kg))	48.0 (1.4)
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

## EFFICIENCY DATA

SEER2	20.0
EER2	12.5
HSPF2	10.5
COP at 47°F (8°C) <sup>2</sup>	3.47
COP at 17°F (-8°C) <sup>3</sup>	2.60
COP at 5°F (-15°C) <sup>4</sup>	2.20



Intertek

Specifications are subject to change without notice.

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## SPECIFICATIONS

LINE SET REQUIREMENTS	
Connection Type	Flare
Liquid (in. (mm))	Ø1/4 (Ø6.35)
Gas (in. (mm))	Ø1/2" (Ø12.7)
Pre-Charge Length (ft. (m))	25 (7.5)
Minimum Length (ft. (m))	10 (3.0)
Maximum Length (ft. (m))	98 (30.0)
Maximum Height Differential (ft. (m))	66 (20.0)
Additional Refrigerant (oz./ft (g/m))	0.16 (15)

OUTDOOR UNIT		
Unit Dimensions (in. (mm))	Width	35-1/16 (890)
	Depth	13-7/16 (342)
	Height	26-1/2 (673)
Carton Dimensions (in. (mm))	Width	39-3/16 (995)
	Depth	15-11/16 (398)
	Height	29-3/16 (740)
Net Weight (lbs. (kg))	92.6 (42.0)	
Gross Weight (lbs. (kg))	100.3 (45.5)	
Cooling Operating Temp. (°F (°C))	-13 - 122 (-25 - 50)	
Heating Operating Temp. (°F (°C))	-13 - 75 (-25 - 24)	
Voltage/Phase/Frequency	208-230V, 1 Phase, 60 Hz	
Voltage Range	187-253V	
Recommended Breaker (Amps)	20	
Minimum Circuit Ampacity (Amps)	18.0	
Communication Wire Size	14*4 AWG Stranded	
Rated Current - Cooling (Amps) <sup>1</sup>	6.2	
Rated Current - Heating (Amps) <sup>2</sup>	7.2	
Sound Pressure (dB(A))	54	

<sup>1</sup> Value at AHR1 Rated Capacity at 95°F (35°C) (AFull)

<sup>2</sup> Value at AHR1 Rated Capacity at 47°F (8°C) (H1Full)

<sup>3</sup> Value at AHR1 Rated Capacity at 17°F (-8°C) (H32)

<sup>4</sup> Value at AHR1 Rated Capacity at 5°F (-15°C) (H42)

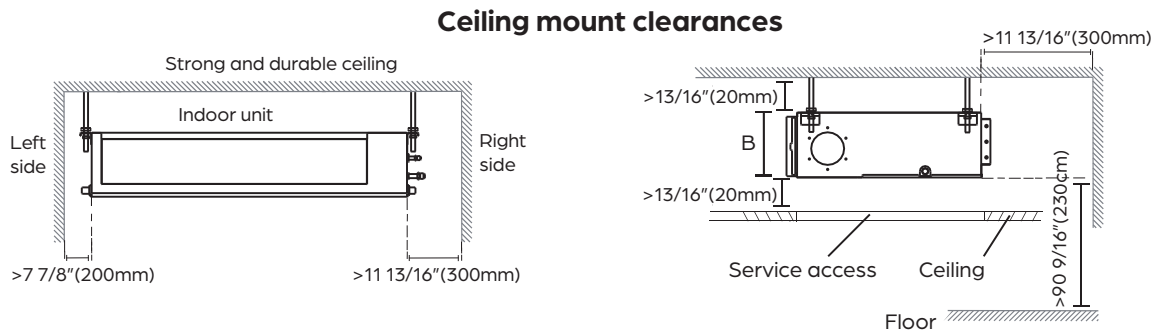
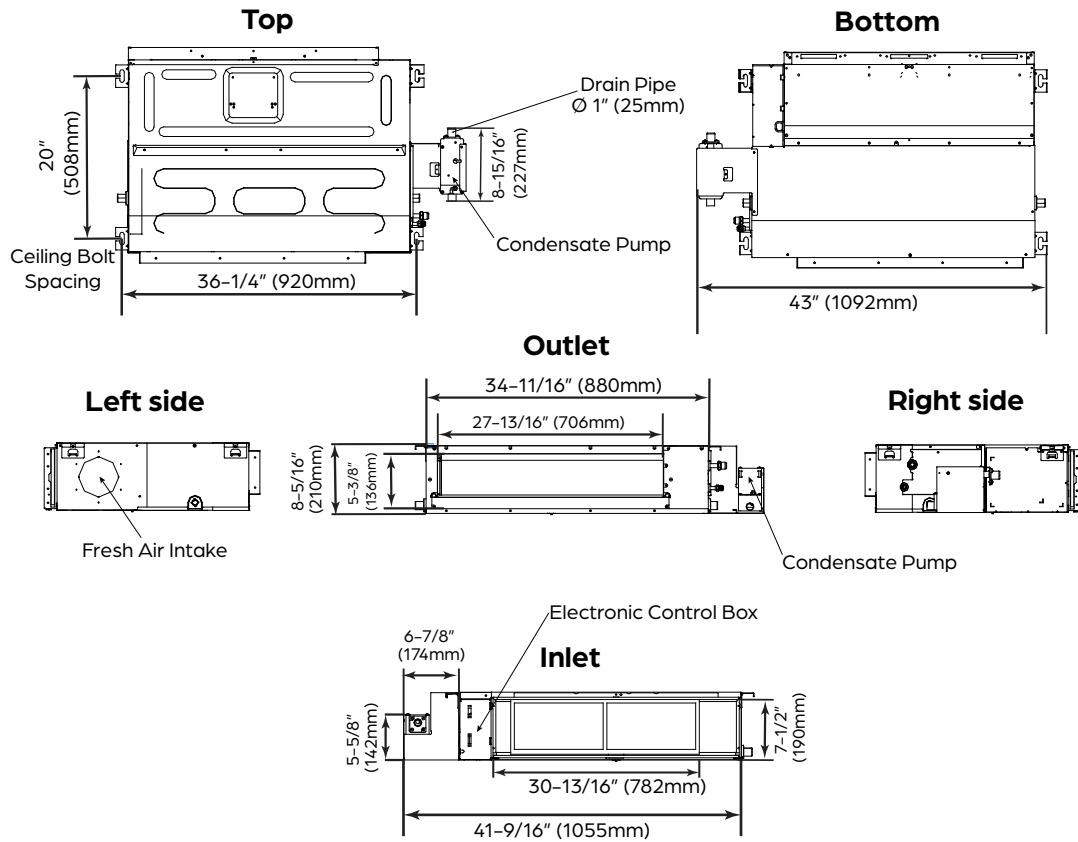
INDOOR UNIT		
Unit Dimensions (in. (mm))	Width	34-11/16 (880)
	Depth	26-9/16 (674)
	Height	8-5/16 (210)
Carton Dimensions (in. (mm))	Width	42-3/16 (1070)
	Depth	28-9/16 (725)
	Height	11-1/16 (280)
Net Weight (lbs. (kg))	54.5 (24.7)	
Gross Weight (lbs. (kg))	66.1 (30.0)	
Indoor Unit Air Flow (CFM (m³/h))	Silent	N/A
	Low	441 (750)
	Medium	500 (850)
	High	560 (950)
	Turbo	600 (1020)
Static Pressure (in. WC (Pa))	0 - 0.4 (0 - 100)	
Moisture Removal (Pints/day (L/h))	76.0 (1.5)	
Field Supplied Drain Pipe O.D. (in. (mm))	Ø1 (Ø25)	
Drain Pump Lift (in. (mm))	21-5/8 (550)	
Recommended Breaker (Amps)	15	
Minimum Circuit Ampacity (Amps)	3.0	
Sound Pressure (dB(A))	Silent	35
	Low	38
	Medium	39
	High	40
	Turbo	N/A

COMPRESSOR	
Type	DC Rotary Inverter
Oil Type	Ester Oil VG74
Oil Charge (oz. (ml))	14.9 (440)

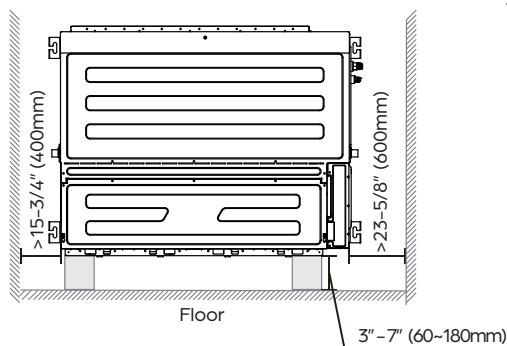


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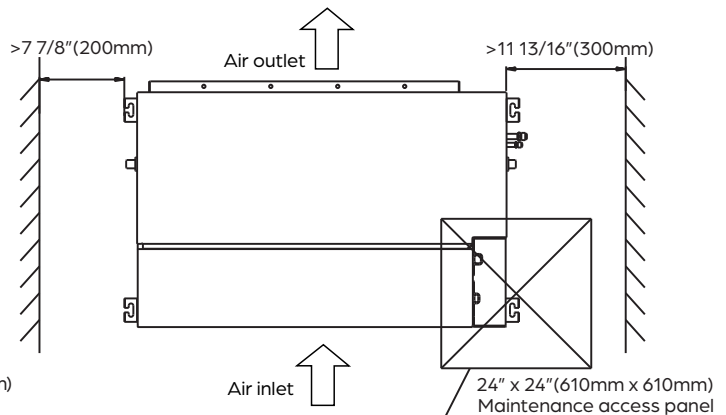
IDU DIMENSIONS – DRADL18F2A



## Wall mount (vertical) clearances



## Maintenance access panel clearance



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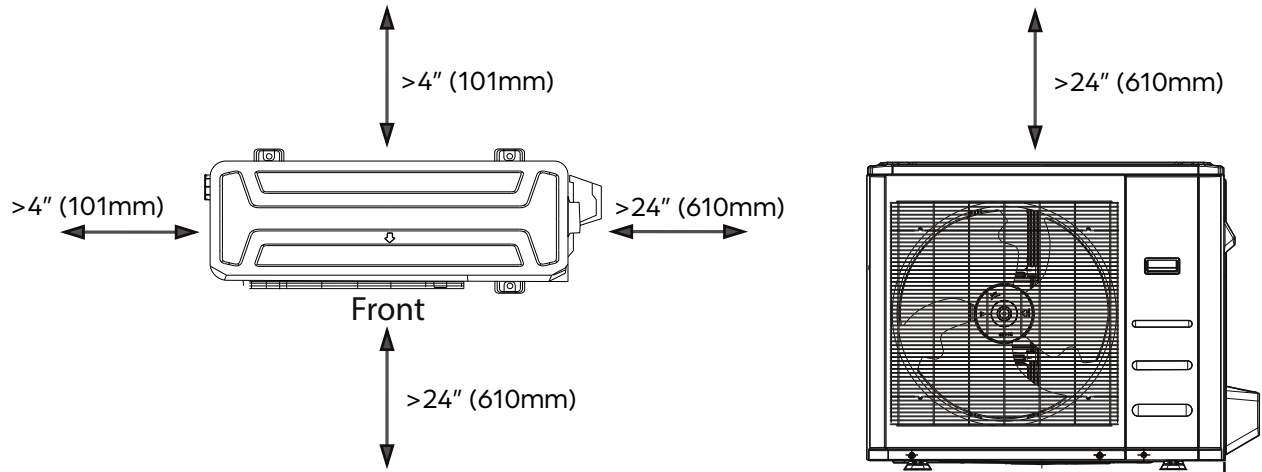
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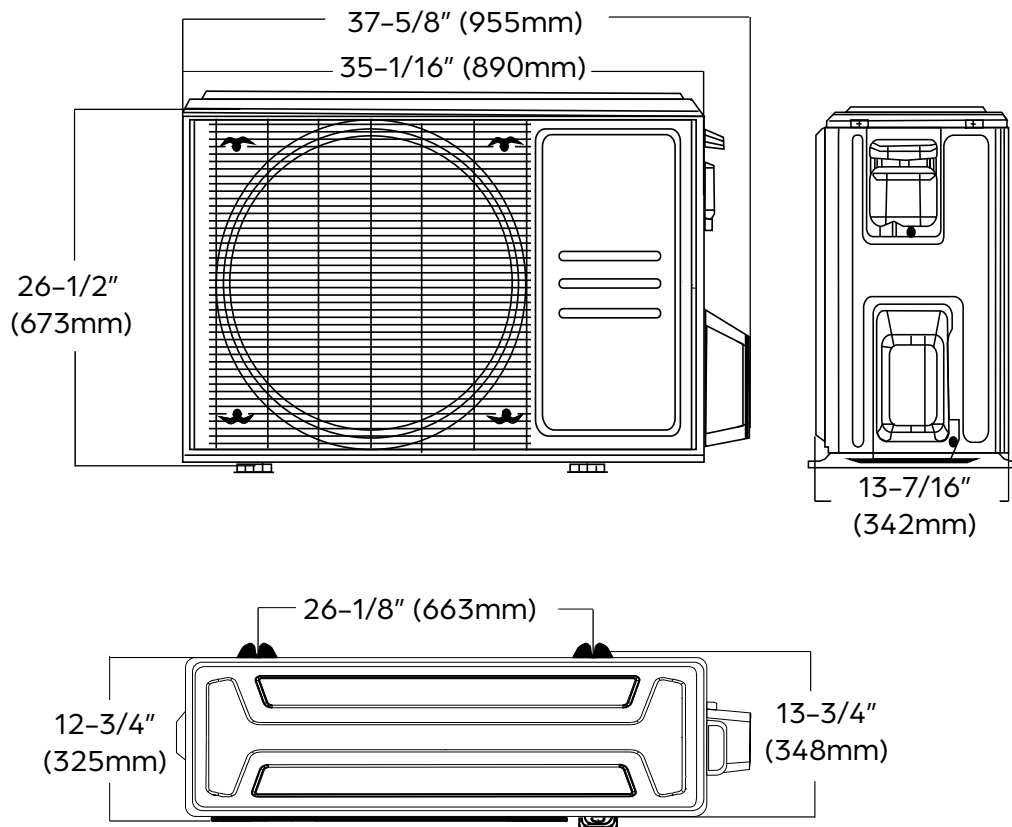
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ODU DIMENSIONS – DRA1U18S2A

## Clearances



## Dimensions



### NOTE

Illustrations in this document are for explanatory purposes. The actual shape of your mini-split equipment may vary slightly.