



24,000 BTU/H HIGH STATIC DUCTED HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

PROJECT NAME _____

LOCATION _____

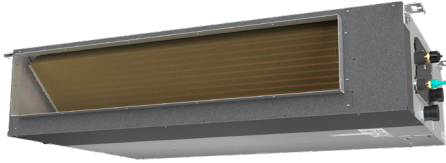
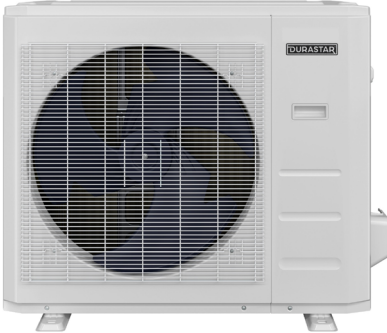
ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

REFERENCE _____

SUBMITTED BY _____ DATE _____

Indoor Unit (IDU): DRADH24F2A	Outdoor Unit (ODU): DRA1U24S2A	Wired Thermostat: DRSTAT101
		

PRODUCT FEATURES

- Variable Speed Inverter Compressor
- A2L refrigerant detection system
- Internal drain pump included
- Horizontal and vertical installation
- High static pressure up to 0.8 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) ¹	24000
	at 109°F (43°C)	21500
	at 5°F (-15°C)	26400
	Cooling Range	8500 - 28300
Heating Capacity (BTU/hr)	Rated at 47°F (8°C) ²	25000
	Rated at 17°F (-8°C) ³	21600
	Rated at 5°F (-15°C) ⁴	21200
	at -13°F (-25°C)	19000
	Heating Range	11800 - 35100

SYSTEM DATA

Refrigerant Type	R-454B
Refrigerant Charge (oz. (kg))	70.1 (2.0)
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

EFFICIENCY DATA

SEER2	19.0
EER2	12.5
HSPF2	11.0
COP at 47°F (8°C) ²	3.64
COP at 17°F (-8°C) ³	2.60
COP at 5°F (-15°C) ⁴	2.30



Intertek

Specifications are subject to change without notice.

© 2024 Ferguson Enterprises LLC

www.durastar.com



24,000 BTU/H HIGH STATIC DUCTED HEAT PUMP SYSTEM

SPECIFICATIONS

LINE SET REQUIREMENTS	
Connection Type	Flare
Liquid (in. (mm))	Ø3/8 (Ø9.52)
Gas (in. (mm))	Ø5/8 (Ø13.02)
Pre-Charge Length (ft. (m))	25 (7.5)
Minimum Length (ft. (m))	10 (3.0)
Maximum Length (ft. (m))	164 (50.0)
Maximum Height Differential (ft. (m))	82 (25.0)
Additional Refrigerant (oz./ft (g/m))	0.32 (30)

OUTDOOR UNIT		
Unit Dimensions (in. (mm))	Width	37-1/4 (946)
	Depth	16-1/8 (410)
	Height	31-7/8 (810)
Carton Dimensions (in. (mm))	Width	42-15/16 (1090)
	Depth	19-11/16 (500)
	Height	34-7/8 (885)
Net Weight (lbs. (kg))	122.1 (55.4)	
Gross Weight (lbs. (kg))	132.3 (60.0)	
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)	25	
Minimum Circuit Ampacity (Amps)	24.0	
Communication Wire Size	14*4 AWG Stranded	
Rated Current - Cooling (Amps) ¹	8.3	
Rated Current - Heating (Amps) ²	8.7	
Sound Pressure (dB(A))	60	

INDOOR UNIT		
Unit Dimensions (in. (mm))	Width	39-3/8 (1000)
	Depth	29-1/2 (750)
	Height	9-5/8 (245)
Carton Dimensions (in. (mm))	Width	48-1/4 (1225)
	Depth	33-7/8 (860)
	Height	12 (304)
Net Weight (lbs. (kg))	80.5 (36.5)	
Gross Weight (lbs. (kg))	91.9 (41.7)	
Indoor Unit Air Flow (CFM (m³/h))	Low	500 (850)
	Medium	618 (1050)
	High	706 (1200)
	Turbo	854 (1450)
Static Pressure (in. WC (Pa))	0 - 0.8 (0 - 200)	
Moisture Removal (Pints/day (L/h))	86.2 (1.7)	
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	30
	Low	36
	Medium	38
	High	40
	Turbo	43

COMPRESSOR	
Type	DC Rotary Inverter
Oil Type	Ester Oil VG74
Oil Charge (oz. (ml))	21 (620)

¹ Value at AHR1 Rated Capacity at 95°F (35°C) (AFull)

² Value at AHR1 Rated Capacity at 47°F (8°C) (H1Full)

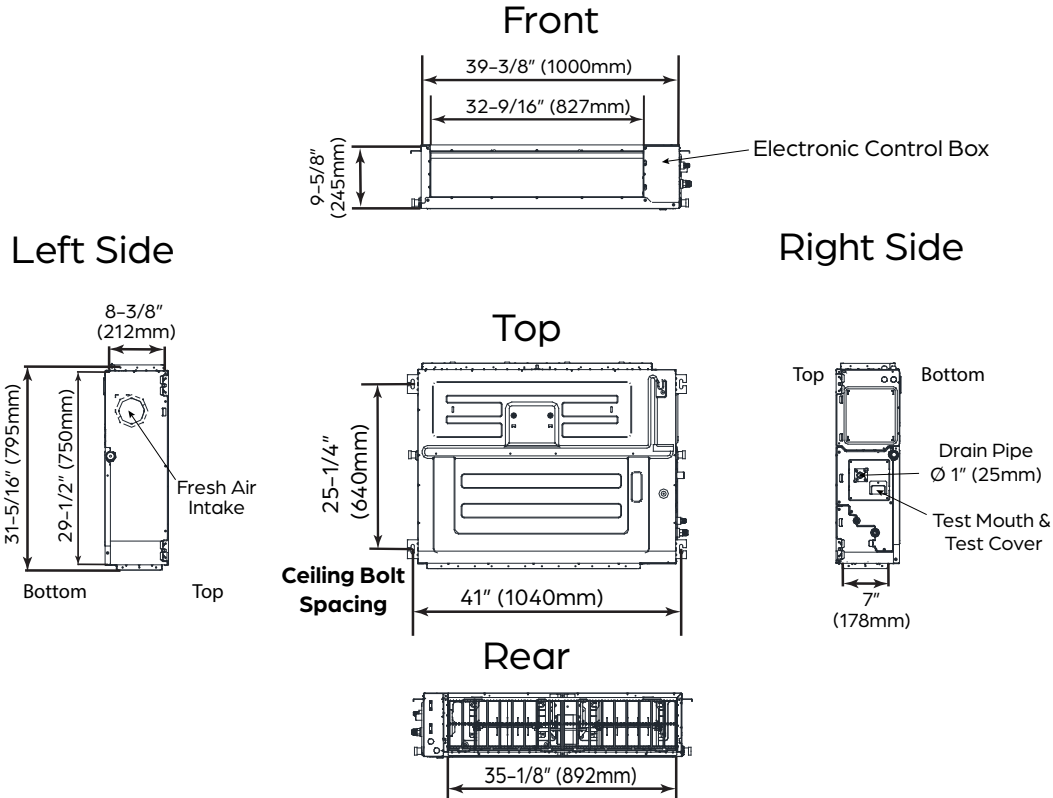
³ Value at AHR1 Rated Capacity at 17°F (-8°C) (H32)

⁴ Value at AHR1 Rated Capacity at 5°F (-15°C) (H42)

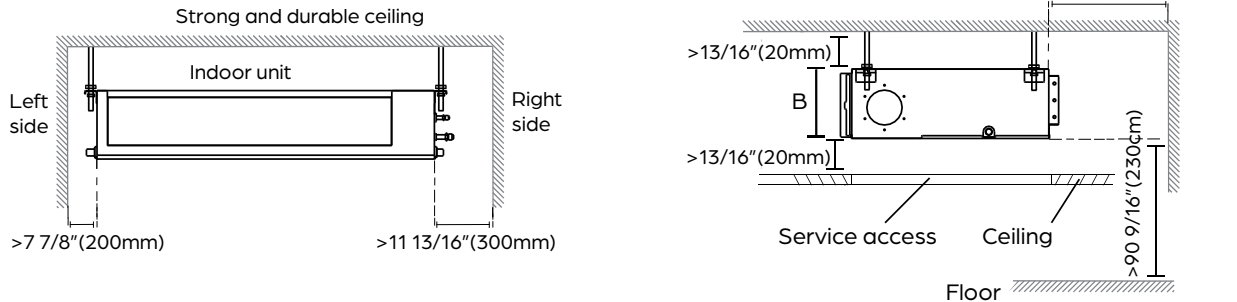


24,000 BTU/H HIGH STATIC DUCTED HEAT PUMP SYSTEM

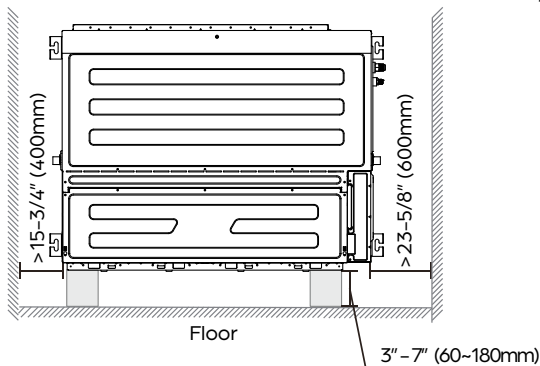
IDU DIMENSIONS – DRADH24F2A



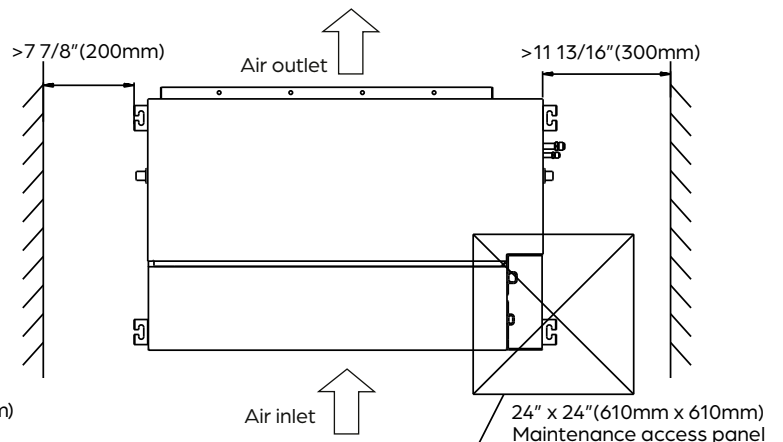
Ceiling mount clearances



Wall mount (vertical) clearances



Maintenance access panel clearance



Specifications are subject to change without notice.

© 2024 Ferguson Enterprises LLC

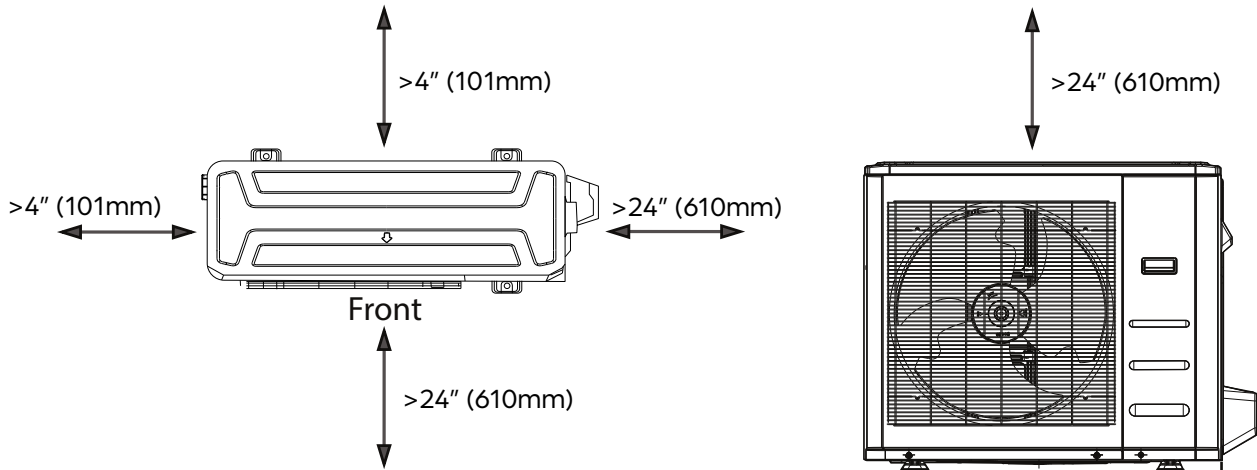
www.durastar.com



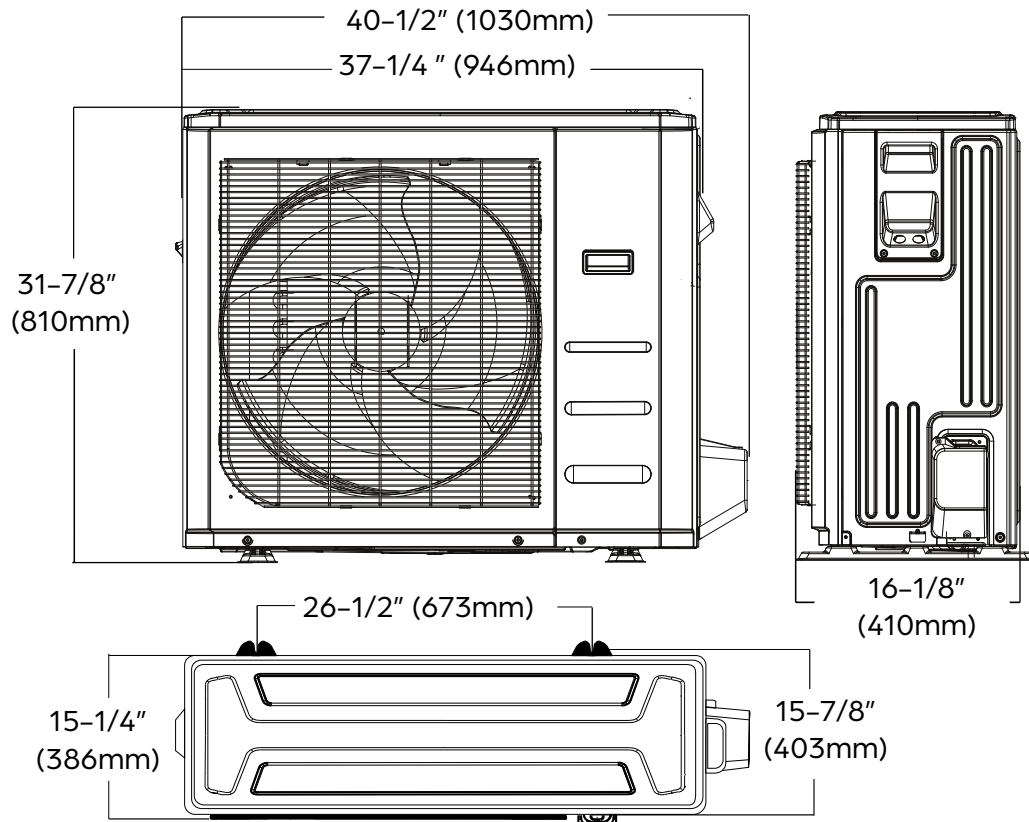
24,000 BTU/H HIGH STATIC DUCTED HEAT PUMP SYSTEM

ODU DIMENSIONS - DRA1U24S2A

Clearances



Dimensions



NOTE

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