



24,000 BTU/H AIR HANDLER HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

PROJECT NAME _____

LOCATION _____




ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

REFERENCE _____

SUBMITTED BY _____ DATE _____

Indoor Unit (IDU): DRAM24F1A	Outdoor Unit (ODU): DRA1U24S1B	WIRED REMOTE DRSTAT100
		

PRODUCT FEATURES

- High-efficiency constant volume variable speed motor
- Multi-position installation: horizontal (right or left), vertical (up or down)
- Built-in dehumidifier, humidifier, and IAQ ports
- All aluminum coil
- Anti-corrosive coil fin coating
- Low ambient heating down to -13 °F
- Low ambient cooling down to 5 °F
- Included base pan heater
- Refrigerant leak detection
- DRSTAT100 programmable thermostat included
- Automatic airflow configuration technology
- Multiple operation modes (Cool, Heat, Aux, Dry, Fan, Auto)
- 24V thermostat compatible
- Optional electric heat (not included)

EFFICIENCY DATA	
SEER2	18.0
EER2	11.7
HSPF2	8.1
COP at 47°F ²	3.43
COP at 17°F ⁴	2.25
COP at 5°F ⁵	1.90

SYSTEM DATA	
Refrigerant Type	R-410A
Refrigerant Charge (oz.)	82.89
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

CAPACITIES		
Cooling Capacity (BTU/hr)	Rated at 95°F ¹	24000
	Maximum at 109°F	22600
	Maximum at 5°F ³	24000
	Minimum	9600
	Maximum	28000
Heating Capacity (BTU/hr)	Rated at 47°F ²	25000
	Rated at 17°F ⁴	18900
	Rated at 5°F ⁵	14000
	Minimum	8600
	Maximum	27000

Specifications are subject to change without notice.
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24,000 BTU/H AIR HANDLER HEAT PUMP SYSTEM SPECIFICATIONS

LINE SET REQUIREMENTS	
Connection Type	Flare
Liquid (Insulated)	Ø3/8" (Ø9.52mm)
Gas (Insulated)	Ø5/8" (Ø16mm)
Pre-Charge Length	25'
Minimum Length	10'
Maximum Length	98'
Maximum Height Differential	66'
Additional Refrigerant (oz./ft)	0.32

OUTDOOR UNIT		
Unit Dimensions	Width	37-1/4"
	Depth	16-1/8"
	Height	31-7/8"
Carton Dimensions	Width	42-15/16"
	Depth	19-11/16"
	Height	34-13/16"
Net Weight	125 lbs.	
Gross Weight	135 lbs.	
Cooling Operating Temperature	5°F - 122°F	
Heating Operating Temperature	-13°F - 75°F	
Voltage/Phase/Frequency	208-230V, 1 Phase, 60 Hz	
Voltage Range	187-253V	
Recommended Breaker (Amps)	30	
Minimum Circuit Ampacity (Amps)	23	
Communication Wire Size	14*4 AWG Stranded	
Rated Current - Cooling (Amps) ¹	8.9	
Rated Current - Heating (Amps) ²	9.1	
Fan Motor RLA (Amps)	0.5	
Fan Motor Output (Watt)	120	
Sound Pressure (dB(A))	57.5	

INDOOR UNIT		
Unit Dimensions	Width	17-1/2"
	Depth	21"
	Height	45"
Carton Dimensions	Width	26-9/16"
	Depth	20-7/8"
	Height	48-5/8"
Net Weight	107 lbs.	
Gross Weight	127 lbs.	
Blower Motor Type	Constant Volume Variable Speed	
Indoor Unit Air Flow (CFM)	Low	629
	Medium	694
	High	759
	Turbo	824
Drain Port Size	3/4"	
Moisture Removal (Pints/day)	121	
Recommended Breaker (Amps)	15	
Indoor Fan Motor RLA (Amps)	3.0	
Sound Pressure (dB(A))	Low	35.5
	Medium	37.5
	High	39.5
Static Pressure Range ⁶ (in. wg.)	0 - 0.8	
Filter Dimensions (WDH) (in.)	16 x 20 x 1	

COMPRESSOR	
Type	DC Inverter Twin Rotary
Rated Current (RLA) (Amps)	15.4
Oil Type	Ester Oil VG74
Oil Charge (oz.)	21 (620ml)

AHRI Rated data is taken at a fixed compressor speed.

¹ AHRI Rated at 95°F (AFull).

² AHRI Rated at 47°F (H1Full).

³ Maximum Capacity: Indoor 80°F DB, 67°F WB // Outdoor 5°F DB, 4°F WB

⁴ AHRI Rated Capacity at 17°F (H32)

⁵ AHRI Rated Capacity at 5°F (H42)

⁶ Static pressure at full required airflow for AHRI testing is 0.5 in.WG.

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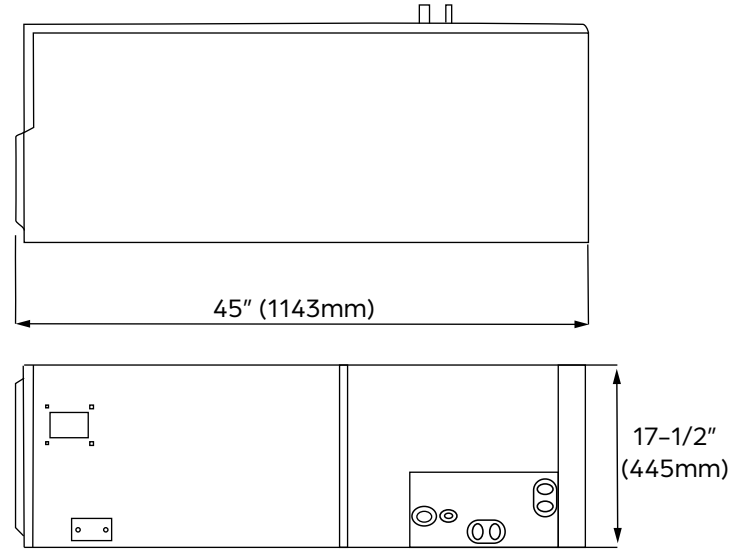
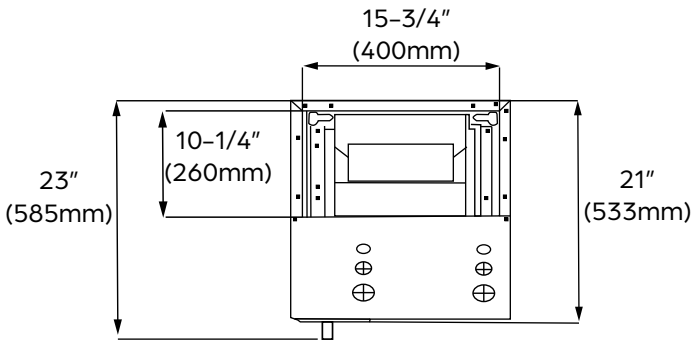
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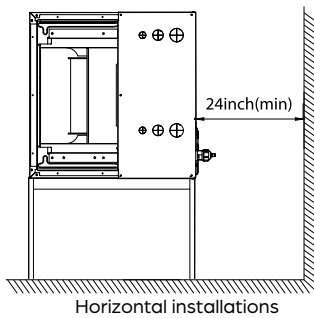
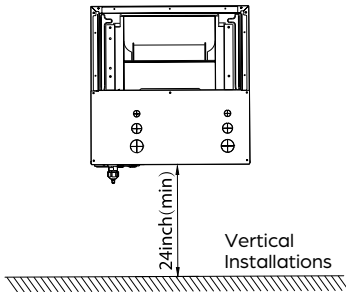
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IDU DIMENSIONS - DRAM24F1A

Dimensions



Clearances



Auxiliary Electric Heaters (Optional)

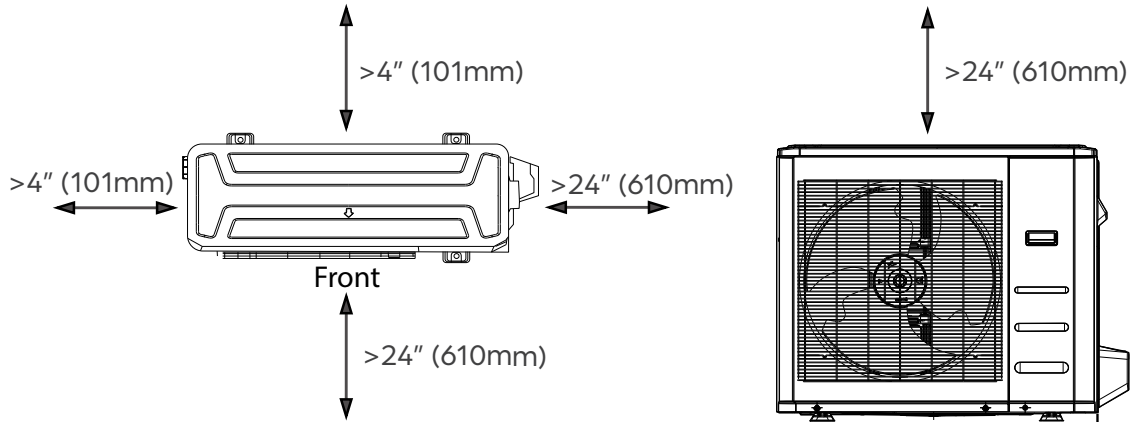
Model	Size
DRHTR05BRKA	5kW
DRHTR08BRKA	8kW
DRHTR10BRKA	10kW
DRHTR15BRKA	15kW



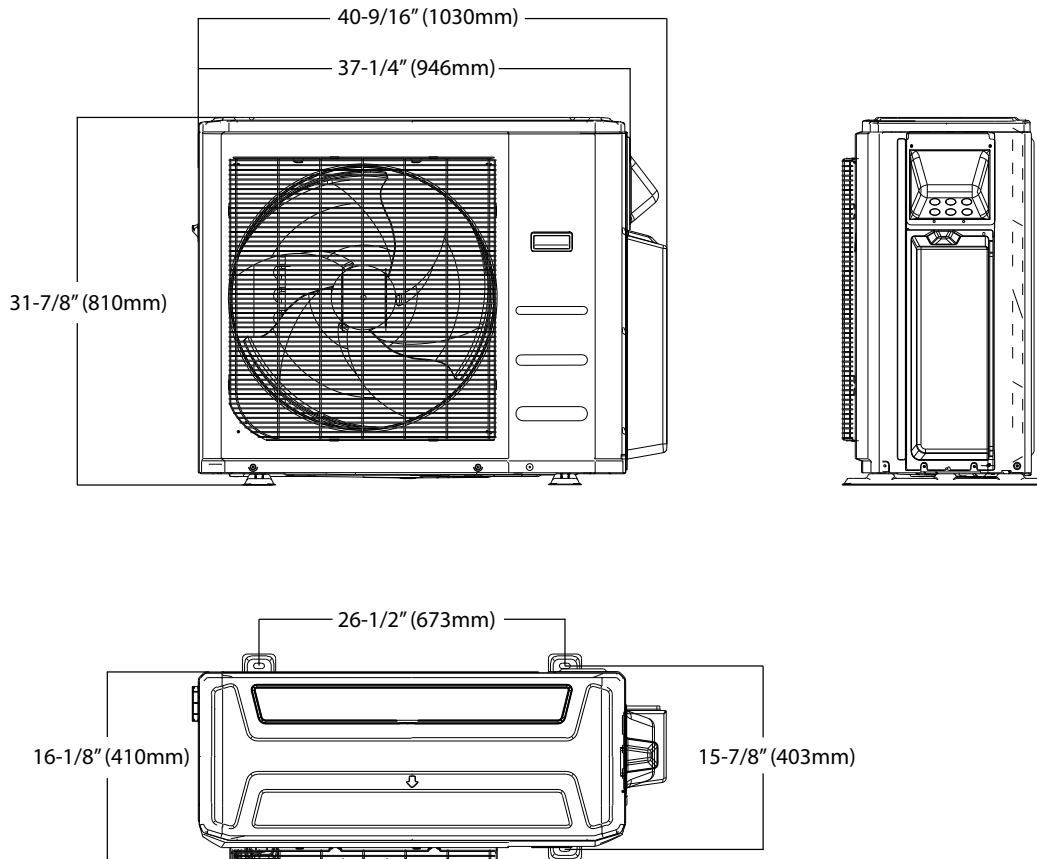
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ODU DIMENSIONS - DRA1U24S1B

Clearances



Dimensions



NOTE

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