



48,000 BTU/H AIR HANDLER HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

PROJECT NAME _____

LOCATION _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

REFERENCE _____

SUBMITTED BY _____ DATE _____

Indoor Unit (IDU): DRAM48S1A	Outdoor Unit (ODU): DRA1U48S1A	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
- 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	15.8
EER2	8.8
HSPF2	9.4
COP at 47°F ²	3.15
COP at 17°F ⁴	2.20
COP at 5°F ⁵	1.95

SYSTEM DATA	
Refrigerant Type	R-410A
Refrigerant Charge (oz.)	165.79
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

CAPACITIES		
Cooling Capacity (BTU/hr)	Rated at 95°F ¹	47000
	Maximum at 109°F	40500
	Maximum at 5°F ³	48000
	Minimum	10500
	Maximum	48000
Heating Capacity (BTU/hr)	Rated at 47°F ²	55000
	Rated at 17°F ⁴	37000
	Rated at 5°F ⁵	36000
	Minimum	13500
	Maximum	57000

Specifications are subject to change without notice.
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48,000 BTU/H AIR HANDLER HEAT PUMP SYSTEM SPECIFICATIONS

LINE SET REQUIREMENTS	
Connection Type	Flare or Braze
Liquid (Insulated)	Ø3/8" (Ø9.52mm)
Gas	Ø3/4" (Ø19.10mm)
Pre-Charge Length	25'
Minimum Length	10'
Maximum Length	213'
Maximum Height Differential	98'
Additional Refrigerant (oz./ft)	0.69

OUTDOOR UNIT		
Unit Dimensions	Width	37-1/2"
	Depth	16-7/8"
	Height	52-1/2"
Carton Dimensions	Width	43-1/8"
	Depth	19-1/2"
	Height	58-5/16"
Net Weight	217 lbs.	
Gross Weight	248 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)	50	
Minimum Circuit Ampacity (Amps)	34	
Communication Wire Size	16/2 AWG Stranded Shielded or 18/8 Thermostat Wire	
Rated Current - Cooling (Amps) ¹	23.2	
Rated Current - Heating (Amps) ²	22.5	
Fan Motor RLA (Amps)	2.4	
Fan Motor Output (Watt)	85	
Sound Pressure (dB(A))	59	

INDOOR UNIT		
Unit Dimensions	Width	21"
	Depth	21"
	Height	49"
Carton Dimensions	Width	26-9/16"
	Depth	24-7/16"
	Height	52-9/16"
Net Weight	131 lbs.	
Gross Weight	156 lbs.	
Blower Motor Type	Constant Volume Variable Speed	
Indoor Unit Air Flow (CFM)	Low	906
	Medium	1094
	High	1282
	Turbo	1471
Drain Port Size	3/4"	
Moisture Removal (Pints/day)	183	
Recommended Breaker (Amps)	15	
Indoor Fan Motor RLA (Amps)	6.0	
Sound Pressure (dB(A))	Low	46.0
	Medium	50.0
	High	53.0
Static Pressure Range ⁶ (in. wg.)	0 - 0.8	
Filter Dimensions (WDH) (in.)	20 x 20 x 1	

COMPRESSOR	
Type	Inverter Rotary
Rated Current (RLA) (Amps)	24.0
Oil Type	Ester Oil VG74
Oil Charge (oz.)	47.3 (1400ml)

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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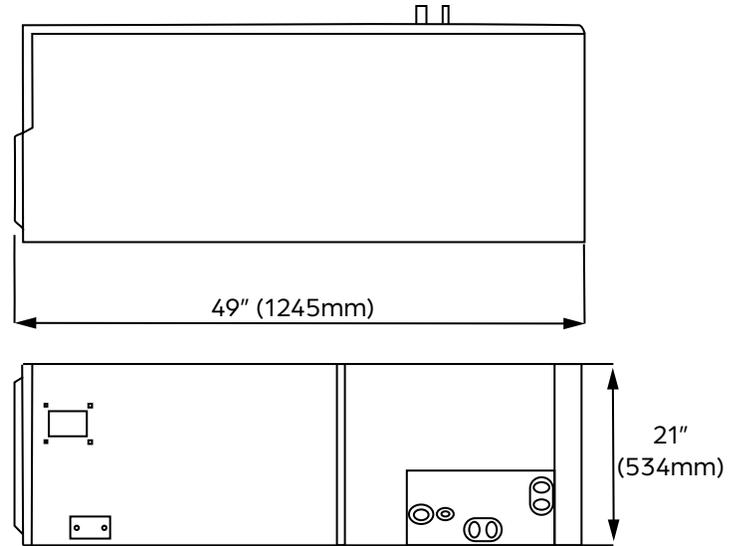
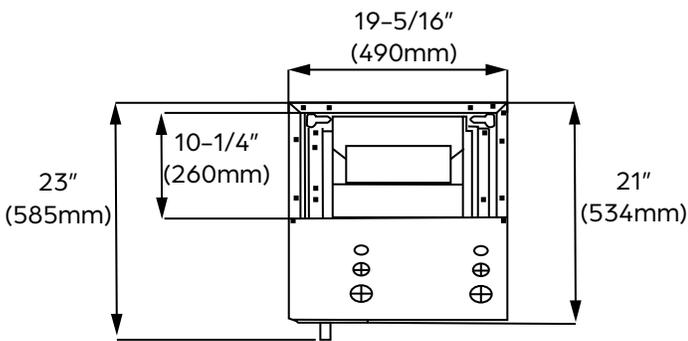
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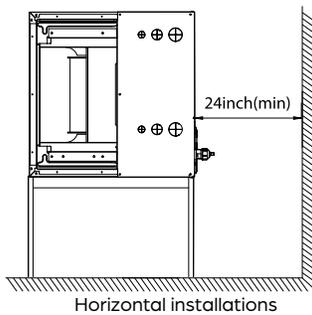
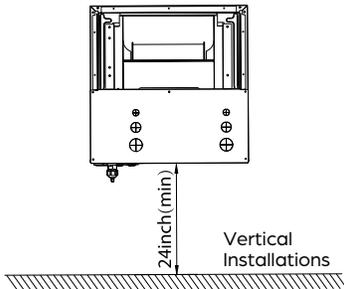
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IDU DIMENSIONS - DRAM48S1A

Dimensions



Clearances



Auxiliary Electric Heaters (Optional)

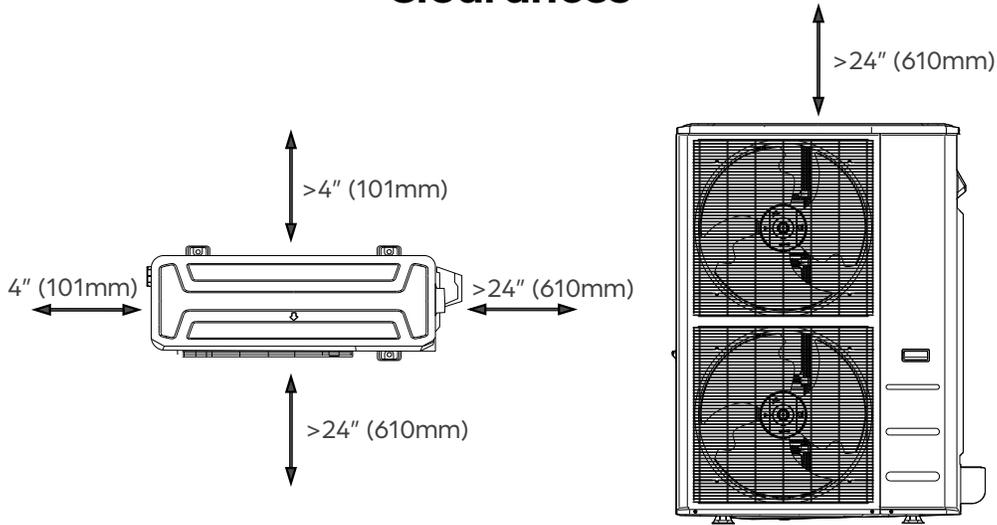
Model	(Btu/h)
DRHTR08BRKA	8kW
DRHTR10BRKA	10kW
DRHTR15BRKA	15kW



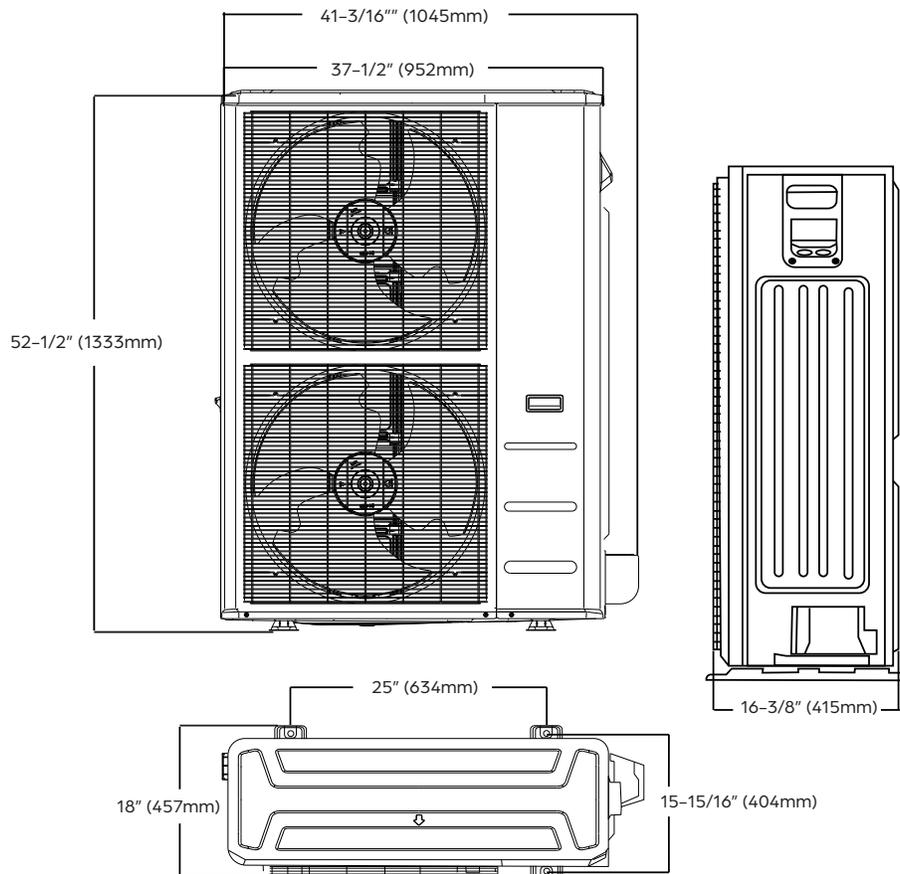
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ODU DIMENSIONS - DRA1U48S1A

Clearances



Dimensions



NOTE

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

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