



12,000 BTU/H DUCTED HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

PROJECT NAME _____

LOCATION _____

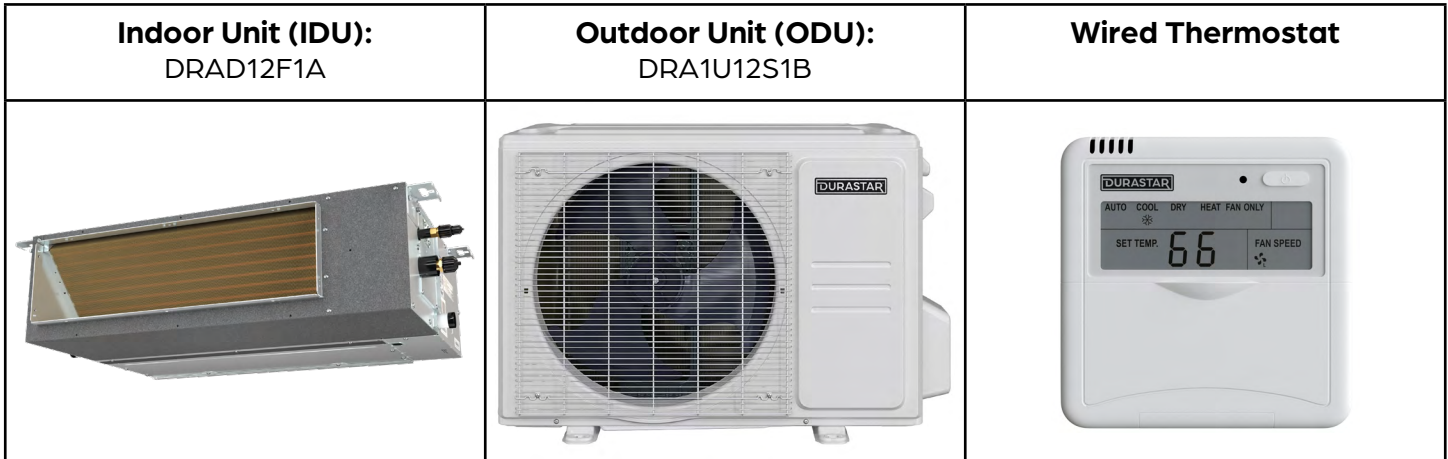
ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

REFERENCE _____

SUBMITTED BY _____ DATE _____



PRODUCT FEATURES

- Wired thermostat included
- Variable Speed Inverter Compressor
- Auto Restart
- Turbo Mode
- 24-Hour Timer Feature
- Quiet operation
- 46°F Freeze Protection
- Low ambient cooling and heating down to -13 °F
- Low ambient cooling down to 5 °F
- Included base pan heater
- Refrigerant leak detection
- Anti-corrosive fin coating

CAPACITIES		
Cooling Capacity (BTU/hr)	Rated at 95 °F	12000
	Minimum	2100
	Maximum	13450
Heating Capacity (BTU/hr)	Rated at 47 °F	12000
	Maximum at 5 °F	7300
	Minimum	1900
	Maximum	15000

SYSTEM DATA	
Refrigerant Type	R-410A
Refrigerant Charge (oz.)	38.1
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

EFFICIENCY DATA	
SEER2	19.00
EER2	11.70
HSPF2	10.30
SEER	21.00
EER	13.50
HSPF	11.50
COP at 47 °F	3.37
COP at 5 °F	1.92





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SPECIFICATIONS

LINE SET REQUIREMENTS	
Connection Type	Flare
Liquid	Ø1/4" (Ø6.35mm)
Gas	Ø1/2" (Ø12.7mm)
Pre-Charge Length	25'
Minimum Length	10'
Maximum Length	82'
Maximum Height Differential	33'
Additional Refrigerant (oz./ft)	0.16

OUTDOOR UNIT		
Unit Dimensions	Width	30 1/8"
	Depth	11 15/16"
	Height	21 7/8"
Carton Dimensions	Width	34 15/16"
	Depth	13 1/4"
	Height	24"
Net Weight	63.7 lbs.	
Gross Weight	69.0 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)	15	
Minimum Circuit Ampacity (Amps)	13	
Communication Wire Size	14*4 AWG Stranded	
Rated Current - Cooling (Amps) ¹	4.39	
Rated Current - Heating (Amps) ²	4.78	
Sound Pressure (dB(A))	53.5	

COMPRESSOR	
Type	DC Rotary Inverter
Oil Type	Ester Oil VG74
Oil Charge (oz.)	10.5 (310 ml)

INDOOR UNIT		
Unit Dimensions	Width	27 9/16"
	Depth	19 15/16"
	Height	7 7/8"
Carton Dimensions	Width	33 7/8"
	Depth	21 1/4"
	Height	11 1/4"
Net Weight	39 lbs.	
Gross Weight	48.5 lbs.	
Indoor Unit Air Flow (CFM)	Low	177
	Medium	283
	High	353
Drain Port O.D.	1" (Ø25mm)	
Drain Pump Lift	21 5/8"	
Recommended Breaker (Amps)	15	
Sound Pressure (dB(A))	Low	31
	Medium	34.5
	High	38

¹ Measured at 95 °F.

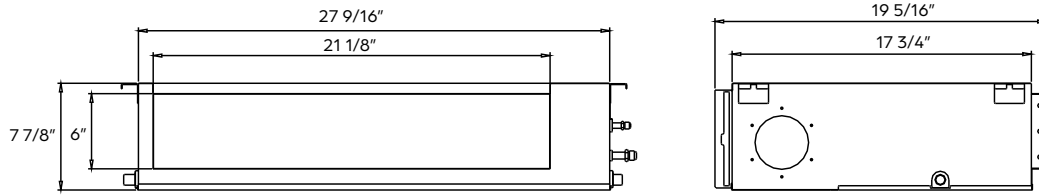
² Measured at 47 °F.



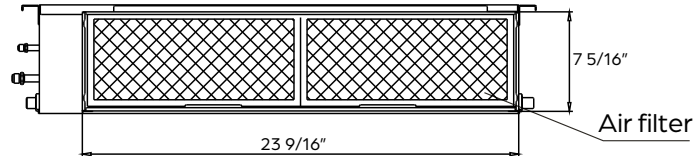
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IDU DIMENSIONS - DRAD12F1A

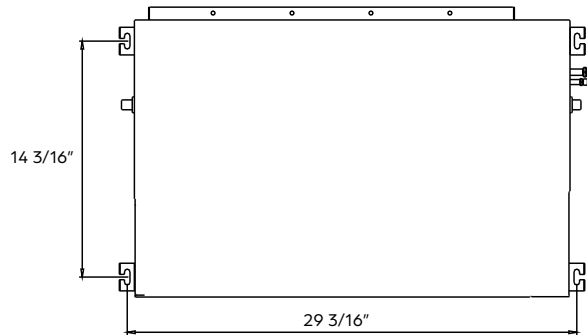
Unit and air outlet dimensions



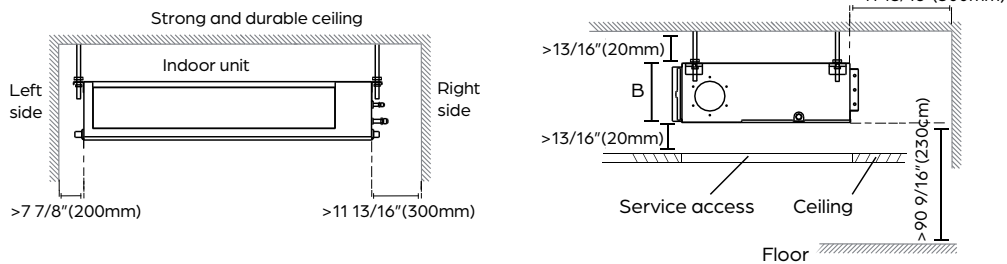
Air inlet dimensions



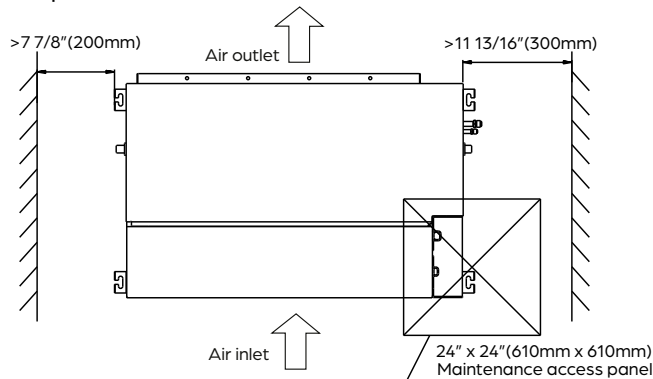
Mounting dimensions for ceiling bolts



Installation clearances



Maintenance access panel

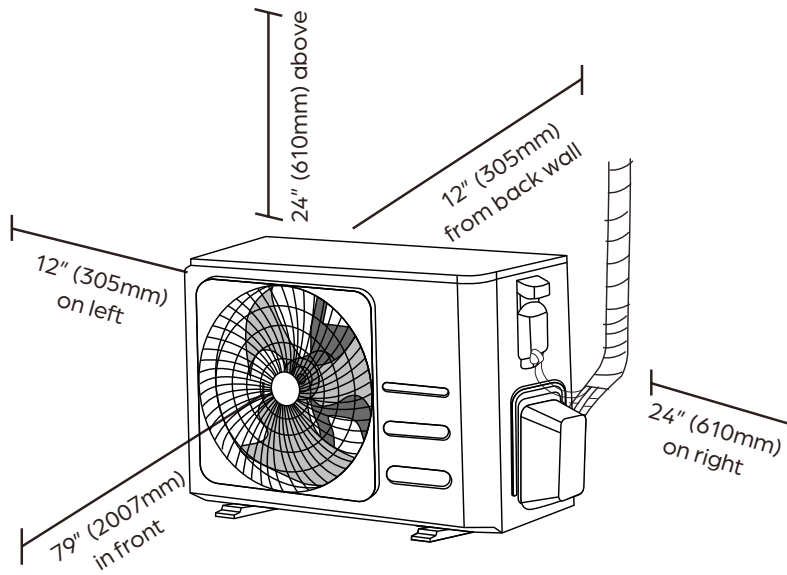




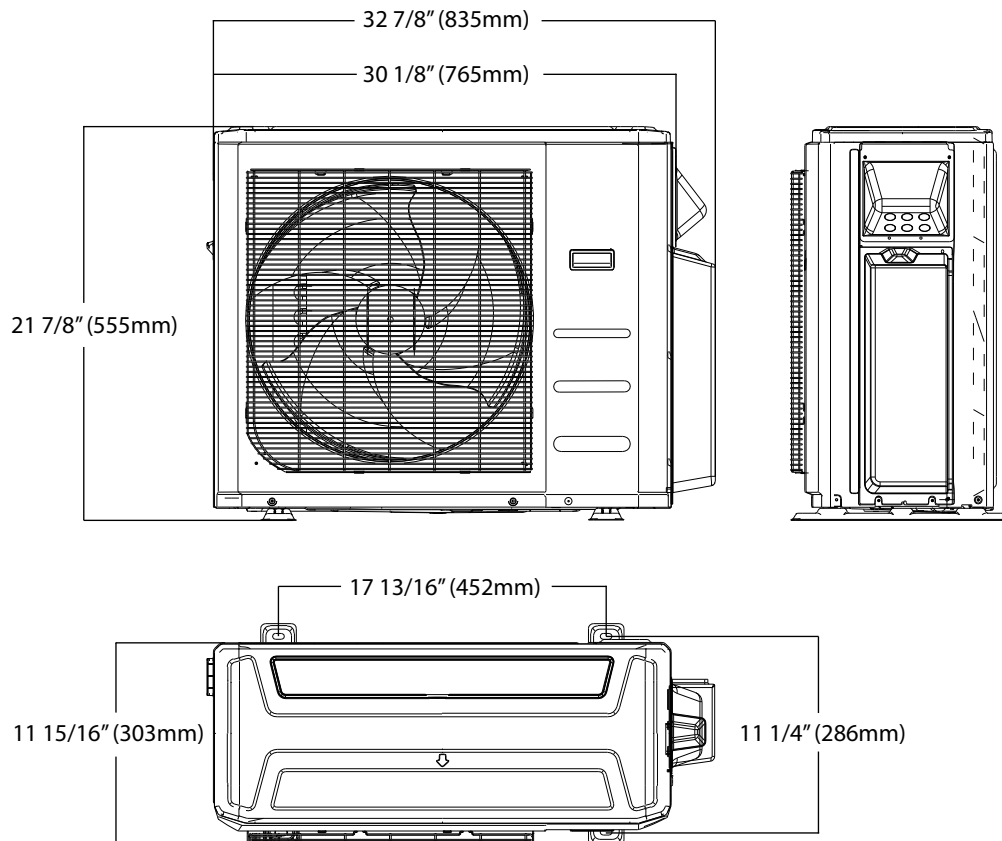
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ODU DIMENSIONS - DRA1U12S1B

Clearances



Dimensions



NOTE

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