



# 18,000 BTU/H DUCTED HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

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

LOCATION \_\_\_\_\_

ARCHITECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

REFERENCE \_\_\_\_\_

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

Indoor Unit (IDU): DRAD18F1A	Outdoor Unit (ODU): DRA1U18S1B	Wired Thermostat
		

## 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	18000
	Minimum	5800
	Maximum	18000
Heating Capacity (BTU/hr)	Rated at 47 °F	20000
	Maximum at 5 °F	10500
	Minimum	5000
	Maximum	20000

SYSTEM DATA	
Refrigerant Type	R-410A
Refrigerant Charge (oz.)	56.44
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

EFFICIENCY DATA	
SEER2	20.00
EER2	12.50
HSPF2	10.60
SEER	20.50
EER	12.50
HSPF	11.00
COP at 47 °F	3.12
COP at 5 °F	2.00





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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	98'
Maximum Height Differential	66'
Additional Refrigerant (oz./ft)	0.16

OUTDOOR UNIT		
Unit Dimensions	Width	35 1/16"
	Depth	13 7/16"
	Height	26 1/2"
Carton Dimensions	Width	39 3/16"
	Depth	15 11/16"
	Height	29 1/8"
Net Weight	95 lbs.	
Gross Weight	102 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)	25	
Minimum Circuit Ampacity (Amps)	17	
Communication Wire Size	14*4 AWG Stranded	
Rated Current - Cooling (Amps) <sup>1</sup>	6	
Rated Current - Heating (Amps) <sup>2</sup>	7.9	
Sound Pressure (dB(A))	58	

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

INDOOR UNIT		
Unit Dimensions	Width	34 5/8"
	Depth	29 9/16"
	Height	8 1/4"
Carton Dimensions	Width	42 1/8"
	Depth	28 9/16"
	Height	10 5/8"
Net Weight	54 lbs.	
Gross Weight	66 lbs.	
Indoor Unit Air Flow (CFM)	Low	371
	Medium	450
	High	530
Drain Port O.D.	1" (Ø25mm)	
Drain Pump Lift	21 5/8"	
Recommended Breaker (Amps)	15	
Sound Pressure (dB(A))	Low	38.0
	Medium	40.5
	High	43.0

<sup>1</sup> Measured at 95 °F.

<sup>2</sup> Measured at 47 °F.

Specifications are subject to change without notice.

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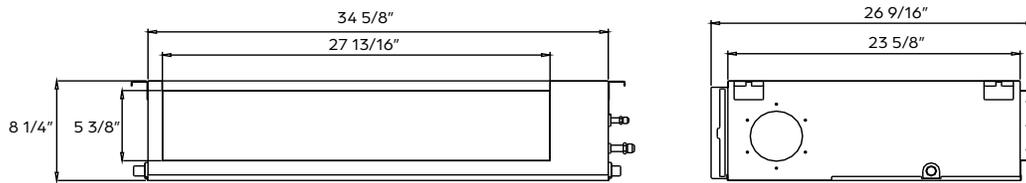
www.durastar.com



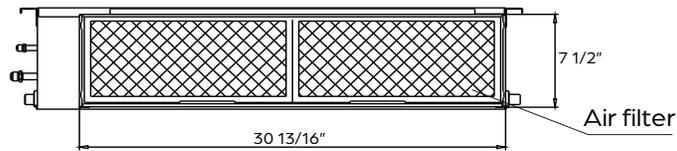
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IDU DIMENSIONS - DRAD18F1A

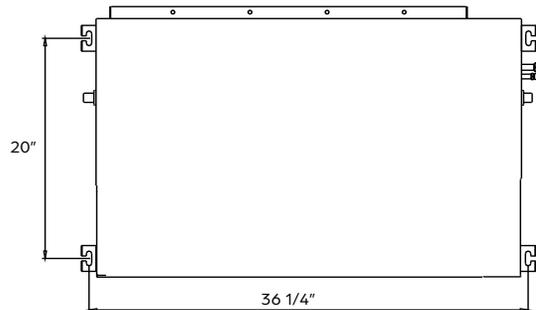
## Unit and air outlet dimensions



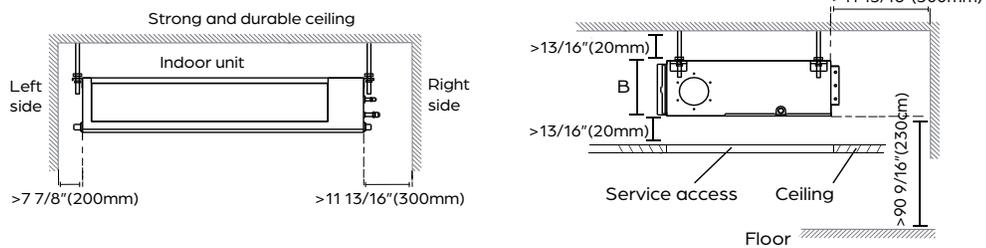
## Air inlet dimensions



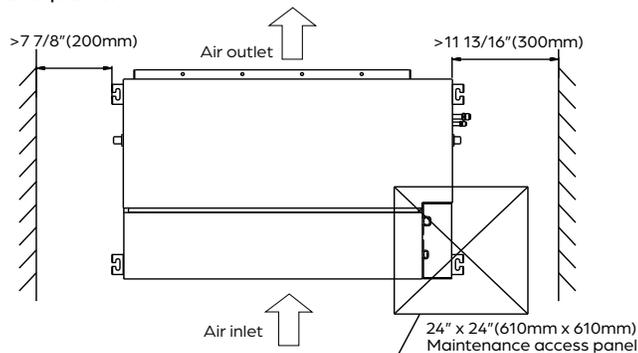
## Mounting dimensions for ceiling bolts



## Installation clearances



## Maintenance access panel

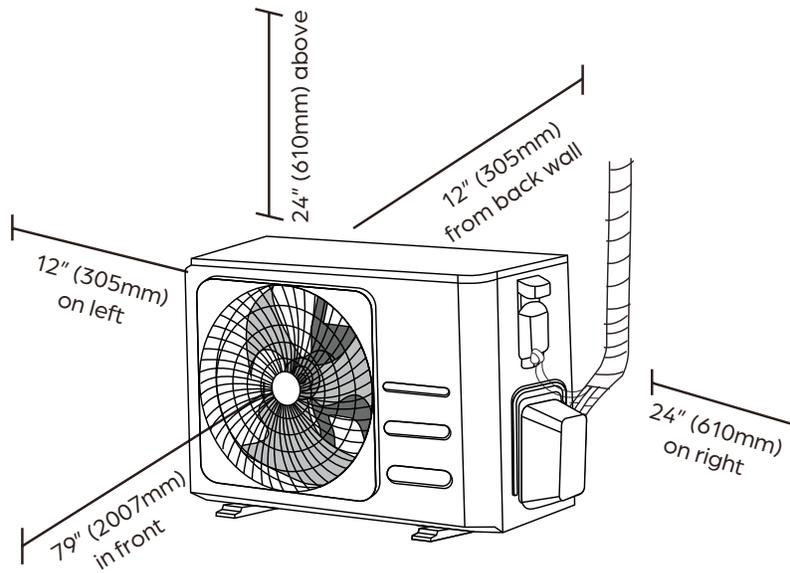




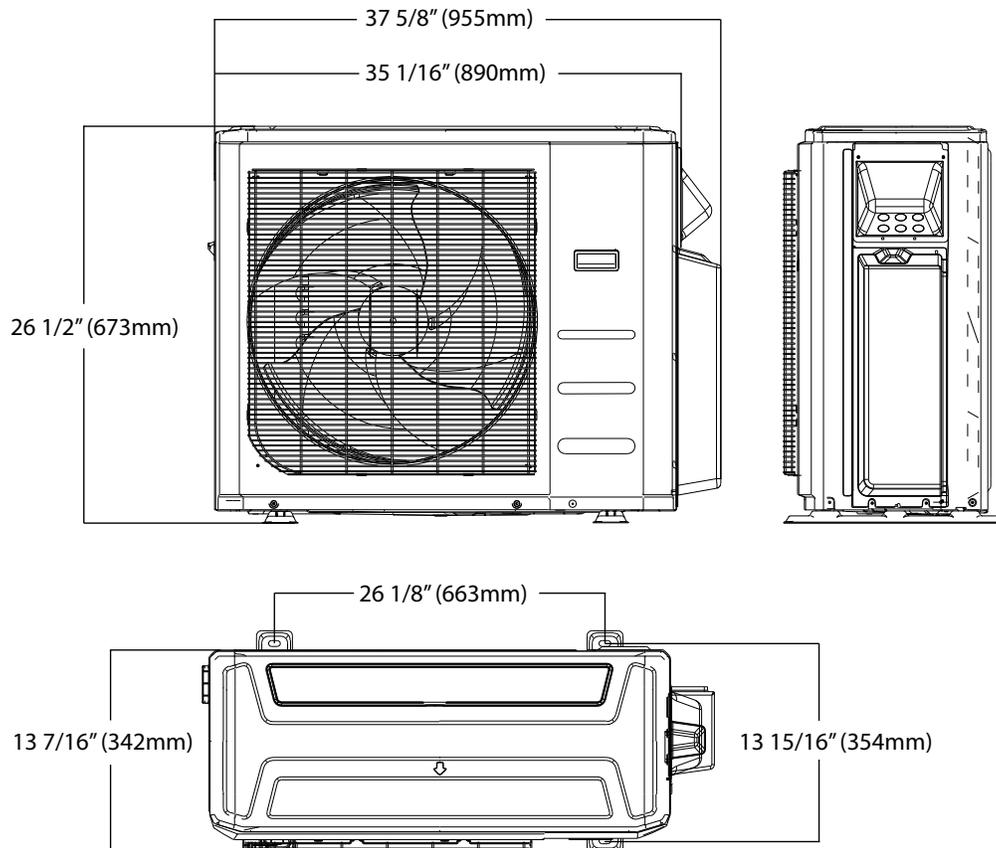
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ODU DIMENSIONS - DRA1U18S1B

## Clearances



## Dimensions



### NOTE

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