DURASTAR®
SIRIUS HEAT™

24,000 BTU/H SIRIUS HEAT AIR HANDLER SYSTEM
SUBMITTAL COVER SHEET

PROJECT NAME _____

LOCATION _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

REFERENCE _____

SUBMITTED BY _____ **DATE** _____

Indoor Unit (IDU): DRAM24F1A	Outdoor Unit (ODU): DRA1H24S1A	WIRED REMOTE DRSTAT100

PRODUCT FEATURES

- High heating capacity at 0°F
- 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 –22°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

EFFICIENCY DATA	
SEER2	18.4
EER2	11.7
HSPF2	9.3
COP at 47°F[2]	3.50
COP at 17°F[4]	2.39
COP at 5°F[5]	1.90

SYSTEM DATA

SYSTEM DATA	
Refrigerant Type	R–410A
Refrigerant Charge (oz.)	91.71
Design Pressure (PSIG)	550/340
Indoor/ Outdoor Coil Coating	Golden Fin Coating

CAPACITIES

CAPACITIES		
Cooling Capacity (BTU/hr)	Rated at 95°F[1]	23000
	Maximum at 109°F	22000
	Maximum at 5°F[3]	24800
	Minimum	7500
	Maximum	26000
Heating Capacity (BTU/hr)	Rated at 47°F[2]	26000
	Rated at 17°F[4]	16900
	Rated at 5°F[5]	21200
	Minimum	5600
	Maximum	29000

Form No. V1.1_02.24

LINE SET REQUIREMENTS

Connection Type	Flare
Liquid (Insulated)	Ø3/8" (Ø9.5mm)
Gas (Insulated)	Ø5/8" (Ø15.9mm)
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	37–1/4"
	Depth	16–3/16"
	Height	31–15/16"
Carton Dimensions	Width	42–15/16"
	Depth	19–11/16"
	Height	36–13/16"
Net Weight	134.5 lbs.	
Gross Weight	144.5 lbs.	
Cooling Operating Temperature	5°F – 122°F	
Heating Operating Temperature	–22°F – 75°F	
Voltage/Phase/Frequency	208–230V, 1 Phase, 60 Hz	
Voltage Range	187–253V	
Recommended Breaker (Amps)	35	
Minimum Circuit Ampacity (Amps)	25	
Communication Wire Size	14*4 AWG Stranded	
Rated Current – Cooling (Amps)[1]	8.7	
Rated Current – Heating (Amps)[2]	9.3	
Fan Motor RLA (Amps)	0.8	
Fan Motor Output (Watt)	80	
Sound Pressure (dB(A))	62	

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	106.7 lbs.	
Gross Weight	127.2 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)	100	
Recommended Breaker (Amps)	15	
Indoor Fan Motor RLA (Amps)	2.0	
Sound Pressure (dB(A))	Low	38
	Medium	39
	High	41
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)	17.1
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
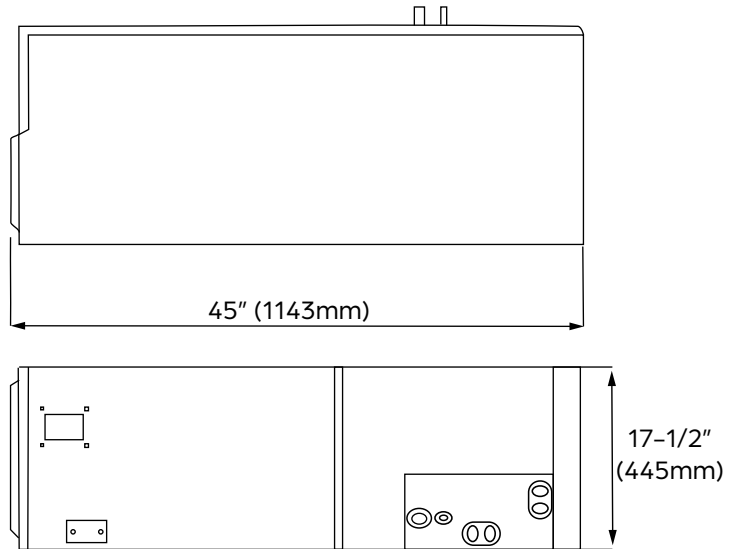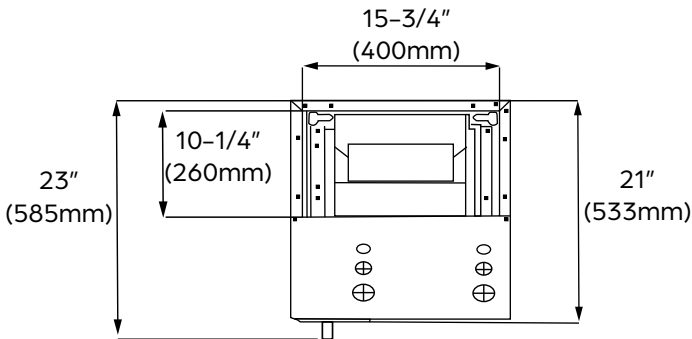[4] AHRI Rated Capacity at 17°F (H32)
[5] AHRI Rated Capacity at 5°F (H42)
[6] Static pressure at full required airflow for AHRI testing is 0.5 in.WG.

Dimensions

15–3/4″
(400mm)

10–1/4″
(260mm)

23″
(585mm)

21″
(533mm)

45″ (1143mm)

17–1/2″
(445mm)

Clearances

24inch(min)

Vertical
Installations

24inch(min)

Horizontal installations
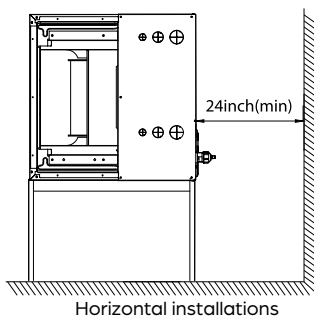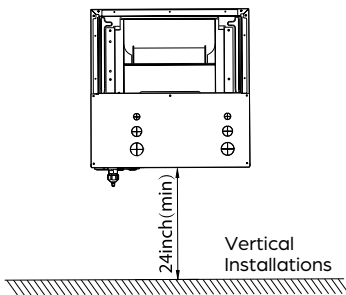
Auxiliary Electric Heaters (Optional)

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

Clearances

>4" (101mm)

>4" (101mm)

>24" (610mm)

Front

>24" (610mm)

>24" (610mm)

Dimensions

40–9/16" (1030mm)

37–1/4" (946mm)

31–15/16"" (810mm)

16–3/16" (410mm)

26–1/2" (673mm)

15-7/8" (403mm)

15-1/4" (386mm)
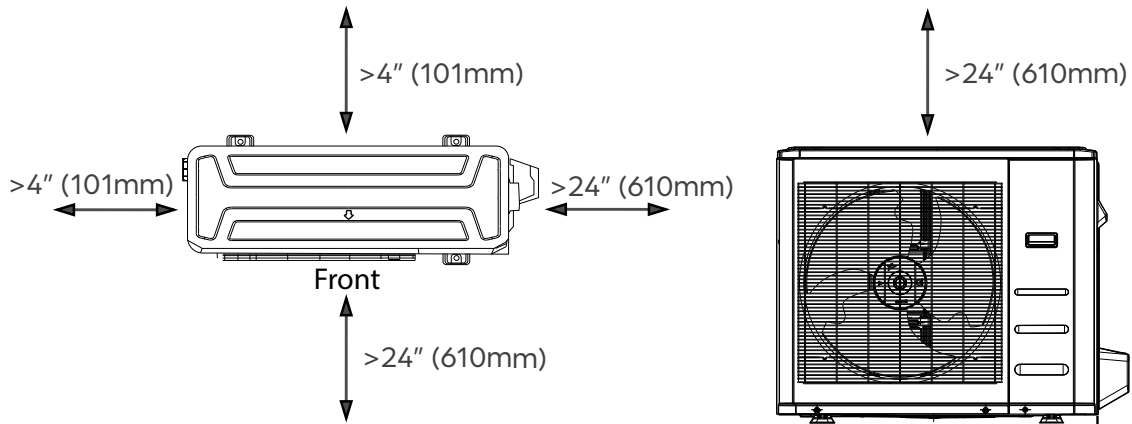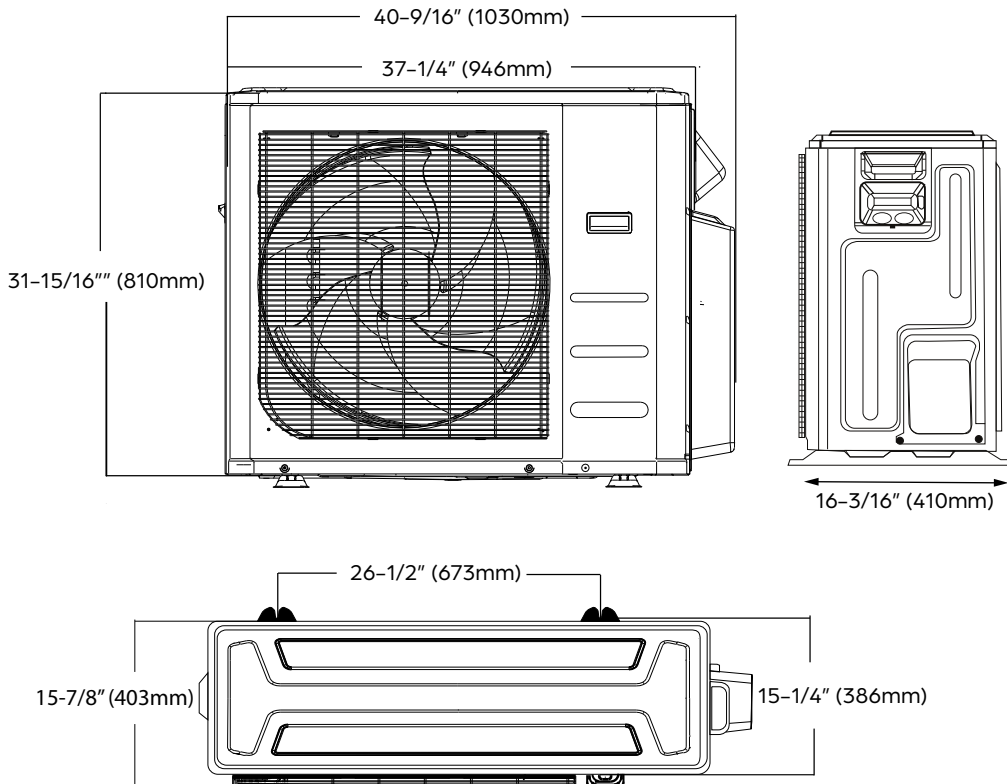
NOTE

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