

SUBMITTAL DATA SHEET



Series Name: DIY Multi Zone Series
Model Number: BDM1A18SC0

Multi Zone Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



OUTDOOR SPECIFICATION

Compressor Type		Twin-ROTARY
Compressor Model		KTN150D30UFZA
Refrigerant		R454B
Refrigerant Oil Charge(mL)		450
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		60.0
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890×342×673
Package (W×D×H)	inch	40.55 x 17.24 x 29.53
	mm	1030×438×750
Net/Gross Weight	lbs	101.63/109.57
	kg	46.1/49.7

ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	16
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	8.2
Outdoor Fan Motor RLA	1.0
Outdoor Fan Motor W	
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	1385/(400 ~ 1860)
System Power Input @ Heating (W)	1390/(350 ~1800)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

EFFICIENCY

Cooling		Heating	
SEER2	23.9	HSPF2-4	10.0
EER2	13.0	COP	3.8

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	5400~23400
Moisture Removal(L/h)	1.1
Standard Operating Range(°F/°C)	32~86/(0~30)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

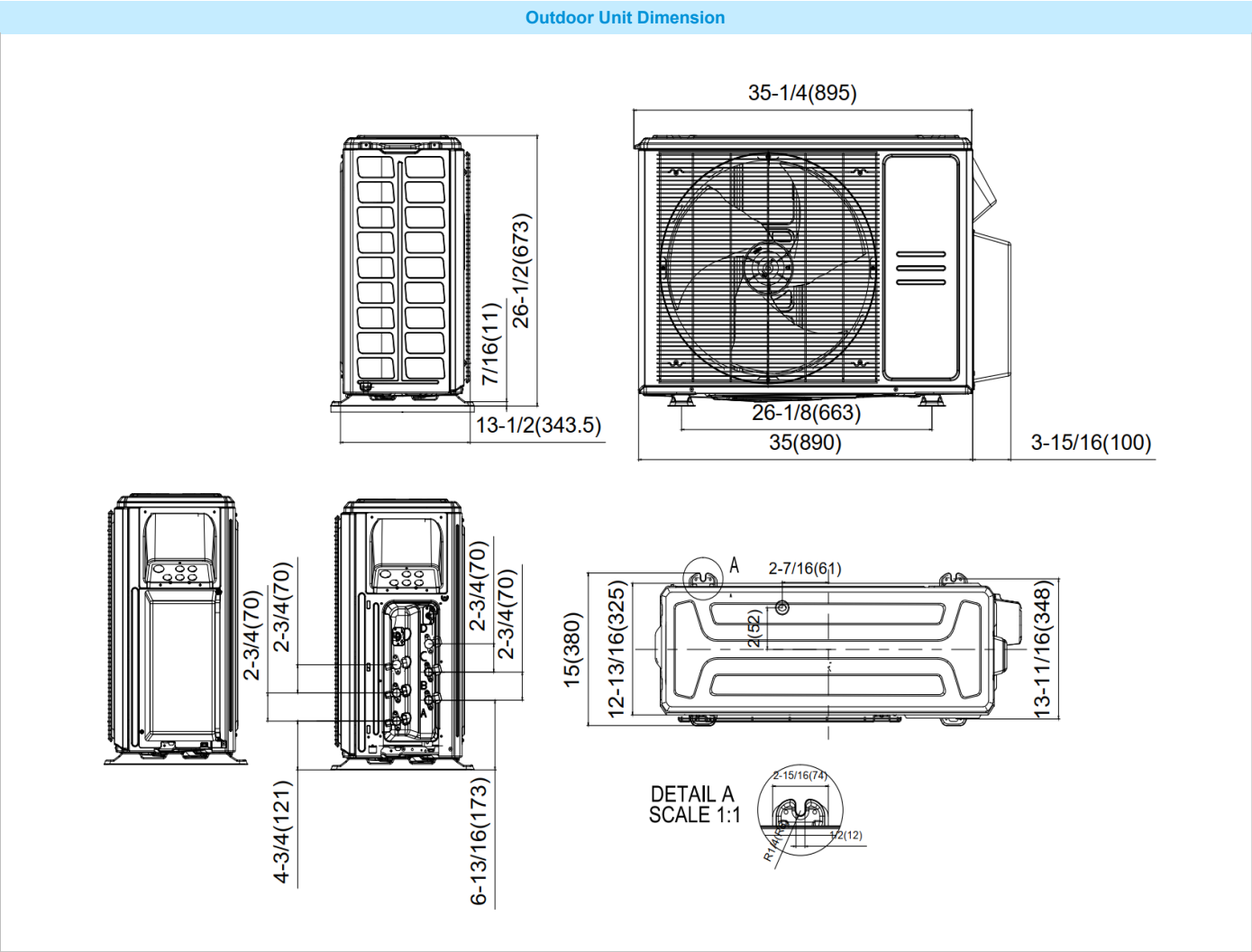
Heating (Btu/hr)	
1. @ 47°F Rated	18000

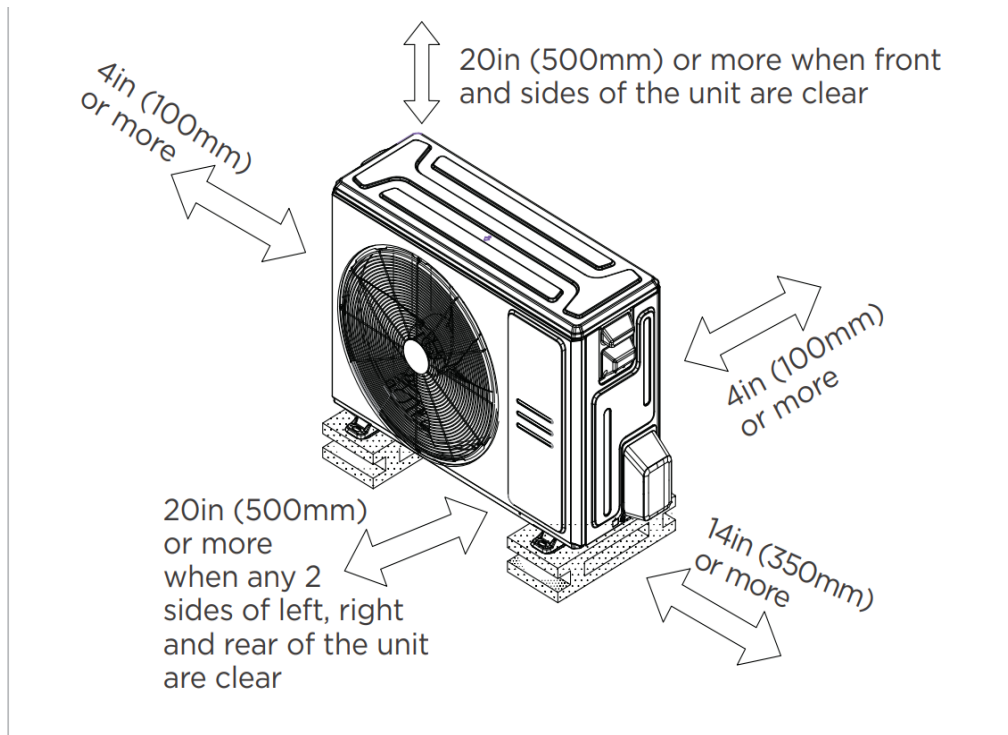
PIPING

Liquid Size	3x9.52mm(3x3/8in)
Gas Size	22.5
Max. Piping Length for all rooms (ft/m)	10/(172.20)
Max. Piping Length for one IDU(ft/m)	52.5/(73.80)
Max. Height Difference of IDU and ODU(ft/m)	16~32/(32.80)
Refrigerant Pre-charged Amount (oz/kg)	15/(1.75)
Refrigerant Precharge Length(ft/m)	24.6(7.5)x3
Additional Charge of Refrigerant (Φ6.35 (1/4") liquid pipe) ((oz/ft)/(g/m))	EXV+Capillary/(0.16)
Additional Charge of Refrigerant	

1. @ 47°F Min/Max Capacity	5700~21000
2. @ 17°F Rated(H32)	13400
3. @ 5°F Rated: Capacity / COP(H42)	13300/2.3
3. @ 5°F Max: Capacity	13,300.00
Standard Operating Range(°F/°C)	-13~75/(16~32)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

(Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared





☒ Meets all spatial requirements shown in Installation Clearance Requirements above.