

SUBMITTAL DATA SHEET

Series Name: DIY Multi Zone Series
Model Number: [BDM1A55SC0](#)

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		EKPQ440D1UMUB
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1460
Refrigerant Oil		VG75
Outdoor Air Flow (Max) (CFM)		4502.8
Outdoor Noise Level (dBA)		64.0
Dimension (W×D×H)	inch	37.48 x 16.34 x 52.48
	mm	952×415×1333
Package (W×D×H)	inch	43.11 x 19.49 x 58.27
	mm	1095×495×1480
Net/Gross Weight	lbs	245.81/276.46
	kg	111.5/125.4

ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	43
Connection Wiring	14#x4
System MOCP	45
Compressor RLA	24.1
Outdoor Fan Motor RLA	2.5
Outdoor Fan Motor W	126
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	3917/(1200 ~ 5800)
System Power Input @ Heating (W)	4960/(1200 ~5750)
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	22.0	HSPF2-4	10.6
EER2	12.0	COP	3.25

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	47000
Min/Max Capacity	19000~59000
Moisture Removal(L/h)	3.1
Standard Operating Range(°F/°C)	-22~122/(-30~50)
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	55000
1. @ 47°F Min/Max Capacity	20000~58500
2. @ 17°F Rated(H32)	44000
3. @ 5°F Rated: Capacity / COP(H42)	46000/2.0
3. @ 5°F Max: Capacity	46000
Standard Operating Range(°F/°C)	-22~75/(-32.8)

PIPING

Liquid Size	4x9.52mm+2x12.7mm(4x3/8in+2x1/2in)
Gas Size	22.5
Max. Piping Length for all rooms(ft/m)	10/(221.40)
Max. Piping Length for one IDU(ft/m)	67.5/(73.80)
Max. Height Difference of IDU and ODU(ft/m)	32.8
Refrigerant Pre-charged Amount(oz/kg)	15/(4.3)
Refrigerant Precharge Length(ft/m)	24.6(7.5)x6
Additional Charge of Refrigerant (Φ6.35 (1/4") liquid pipe) ((oz/ft)/(g/m))	EXV/(0.16)
Additional Charge of Refrigerant (Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

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

Outdoor Unit Dimension



