



SUBMITTAL DATA

A-VHP486A-1

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)	1300
Refrigerant Oil	VG75
Outdoor Air Flow (Max) (CFM)	4503
Outdoor Noise Level (dBA)	65
Dimension (WxDxH)	inch 37.48 x 16.34 x 52.48
	mm 952x415x1333
Package (WxDxH)	inch 43.11 x 19.49 x 58.27
	mm 1095x495x1480
Net/Gross Weight	lbs 246.47/276.68
	kg 111.8/125.5

ELECTRICAL

Power Supply	208/230V, 60Hz, 1Ph
System MCA	37
Connection Wiring	14#x4
System MOCP	40
Compressor RLA	27
Outdoor Fan Motor RLA	2.5
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	4020/(800 ~ 5700)
System Power Input @ Heating (W)	4000/(800 ~5000)
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 20.4	HSPF2-4 11.0
EER2 11.7	COP 3.5

PERFORMANCE of Cooling

Cooling (Btu/hr)
Rated Capacity 47000
Min/Max Capacity 12000~57000
Moisture Removal(L/h) 2.6
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

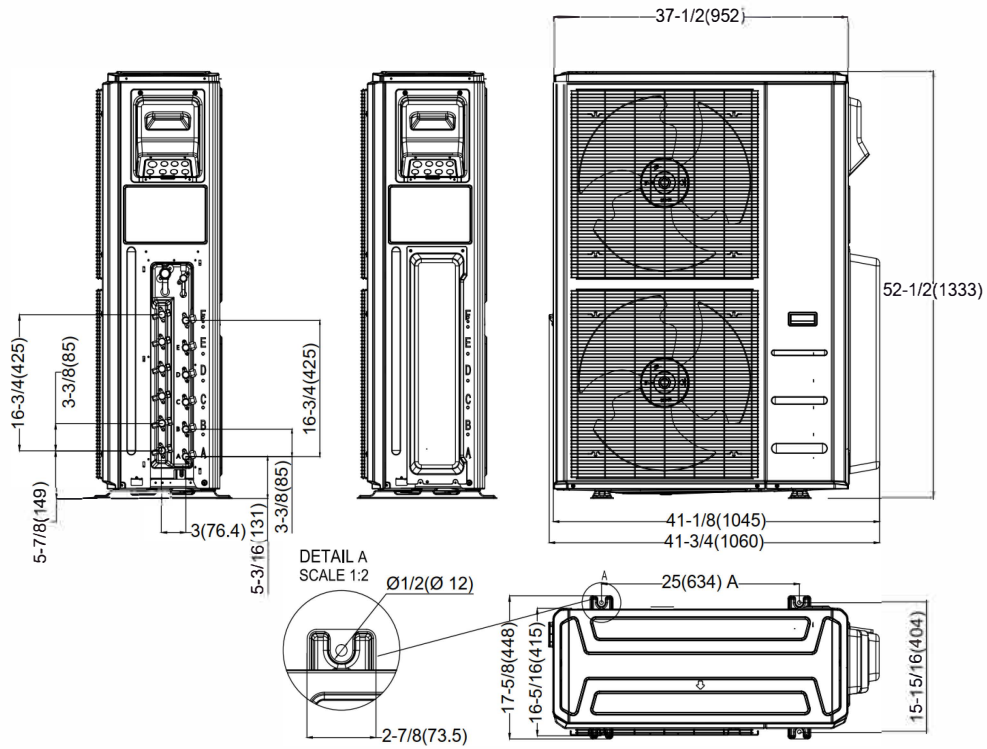
PERFORMANCE of Heating

Heating (Btu/hr)
1. @ 47°F Rated 48000
1. @ 47°F Min/Max Capacity 13000~60000
2. @ 17°F Rated(H32) 44500
3. @ 5°F Rated: Capacity / COP(H42) 48000/2
3. @ 5°F Max: Capacity 48000
Standard Operating Range(*F/*C) -22~-75/(-30~24)
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

PIPING

Liquid Size	6x6.35mm(6x1/4in)
Gas Size	4x9.52mm+2x12.7mm(4x3/8in+2x1/2in)
Max. Piping Length for all rooms(ft/m)	262.4/(80)
Max. Piping Length for one IDU(ft/m)	114.8/(35)
Max. Height Difference of IDU and ODU(ft/m)	49.2/(15)
Refrigerant Pre-charged Amount(oz/kg)	151.68/(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))	0.16/(15)
Additional Charge of Refrigerant (Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m))	0.32/(30)
Connection Method	Flared

Outdoor Unit Dimension



Installation Instruction

