

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Multi Zone Xtreme Heat Series  
Model Number: MO5HX-H36B-2A

### Multi Zone Heat Pump System

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



### OUTDOOR SPECIFICATION

<b>Compressor Type</b>	TWIN-ROTARY	
<b>Compressor Model</b>	EKPQ420D1UMUA	
<b>Refrigerant</b>	R454B	
<b>Refrigerant Oil Charge(mL)</b>	1460	
<b>Refrigerant Oil</b>	VG75	
<b>Outdoor Air Flow (Max) (CFM)</b>	3037	
<b>Outdoor Noise Level (dBA)</b>	65	
<b>Dimension (W×D×H)</b>	<b>inch</b>	38-5/8 x 16-5/16 x 38-3/8
	<b>mm</b>	980 x 415 x 975
<b>Package (W×D×H)</b>	<b>inch</b>	45-1/16 x 19-11/16 x 42-1/2
	<b>mm</b>	1145 x 500 x 1080
<b>Net/Gross Weight</b>	<b>lbs</b>	212 / 245
	<b>kg</b>	96.1 / 111

### ELECTRICAL

<b>Power Supply</b>	208/230V,60Hz,1Ph
<b>System MCA</b>	37.0
<b>Connection Wiring</b>	AWG 14/4
<b>System MOCP</b>	40.0
<b>Compressor RLA</b>	20.5
<b>Outdoor Fan Motor RLA</b>	2.6
<b>Outdoor Fan Motor W</b>	250
<b>Indoor Fan Motor RLA</b>	/
<b>Indoor Fan Motor W</b>	/
<b>System Power Input @ Cooling (W)</b>	2,750 (600~4,000)
<b>System Power Input @ Heating (W)</b>	2,638 (600~3,750)
<b>MCA:</b> Min. circuit amps (A)	<b>MOCP:</b> Max. over current protection (A)
<b>RLA:</b> Rated load amps (A)	<b>W:</b> Fan motor rated output (W)

### EFFICIENCY

Cooling		Heating	
<b>SEER2</b>	23.0	<b>HSPF2-4</b>	10.7
<b>EER2</b>	13	<b>COP</b>	4.0

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
<b>Rated Capacity</b>	36,000
<b>Min/Max Capacity</b>	9,000~43,000
<b>Moisture Removal(L/h)</b>	2
<b>Standard Operating Range(°F/°C)</b>	-22~-122 (-30~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

### PERFORMANCE of Heating

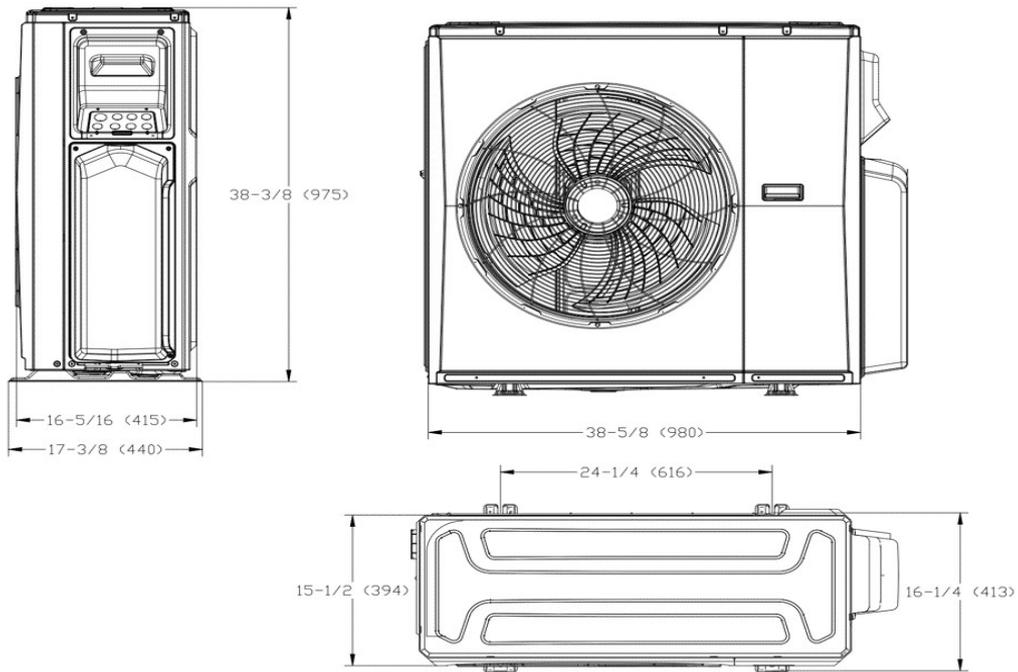
Heating (Btu/hr)	
<b>1. @ 47°F Rated</b>	36,000
<b>1. @ 47°F Min/Max Capacity</b>	10,000~44,000
<b>2. @ 17°F Rated(H32)</b>	30,000
<b>3. @ 5°F Rated: Capacity / COP(H42)</b>	36,000 / 2
<b>3. @ 5°F Max: Capacity</b>	36,000
<b>Standard Operating Range(°F/°C)</b>	-22~-75 (-30~24)
1. Conditions:	Indoor: 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

<b>Liquid Size</b>	5 x 1/4" (5 x 6.35 mm)
<b>Gas Size</b>	3/8 x 3/8 x 1/2 x 1/2 (9.5 x 9.5 x 12.7 x 12.7 mm)
<b>Max. Piping Length for all rooms(ft/m)</b>	262 (80)
<b>Max. Piping Length for one IDU(ft/m)</b>	115 (35)
<b>Max. Height Difference of IDU and ODU(ft/m)</b>	49 (15)
<b>Refrigerant Pre-charged Amount(oz/kg)</b>	134 (3.8)
<b>Refrigerant Precharge Length(ft/m)</b>	25 (7.5) x 5
<b>Additional Charge of Refrigerant (Φ6.35 (1/4") liquid pipe) ((oz/ft)/(g/m))</b>	0.16 (15)
<b>Additional Charge of Refrigerant (Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m))</b>	0.32 (30)
<b>Connection Method</b>	Flared

Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction

