

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Xtreme Heat Series
Model Number: MFBHS-H48B-2A/MO1HU-H48B-2A

Ceiling&Floor Heat Pump System

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



INDOOR SPEINDOOR SPECIFICATIONCIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1354 / 1236 / 1083 / 801 / 665	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	54 / 53 / 49 / 39 / 35	
Dimension (W×D×H)	inch	65 x 26-5/8 x 9-1/4
	mm	1650 × 675 × 235
Package (W×D×H)	inch	67-7/8 x 29-3/4 x 12-1/2
	mm	1725 × 755 × 318
Net/Gross Weight	lbs	89.07 / 105.16
	kg	40.4 / 47.7

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY	
Compressor Model	EKPQ420D1UMUA	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	1460	
Refrigerant Oil	VG75	
Outdoor Air Flow (Max) (CFM)	4,238	
Outdoor Noise Level (dBA)	64.5	
Dimension (W×D×H)	inch	37-1/2 x 16-3/8 x 52-1/2
	mm	952 × 416 × 1333
Package (W×D×H)	inch	43-1/8 x 19-1/2 x 57-1/2
	mm	1095 × 495 × 1460
Net/Gross Weight	lbs	209 / 240
	kg	94.7 / 108.8

EFFICIENCY

Cooling		Heating	
SEER2	18.5	HSPF2-4	10.1
EER2	9.4	COP	2.86

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	6,700~53,500
Moisture Removal(L/h)	6.32
Standard Operating Range(*F/°C)	-22~122 (-30~50)
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	52,000
1. @ 47°F Min/Max Capacity	18,800~58,700
2. @ 17°F Rated	38,500
3. @ 5°F Rated: Capacity / COP	47,000 / 1.83
3. @ 5°F Max: Capacity	47,000
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

ELECTRICAL

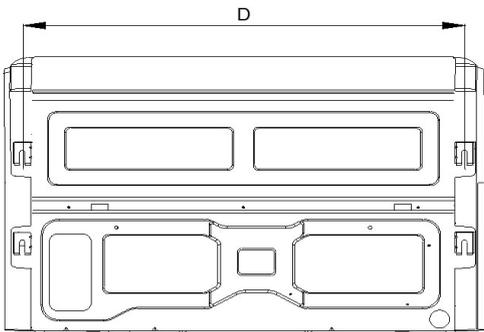
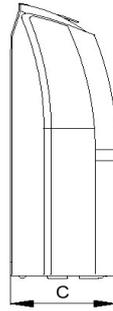
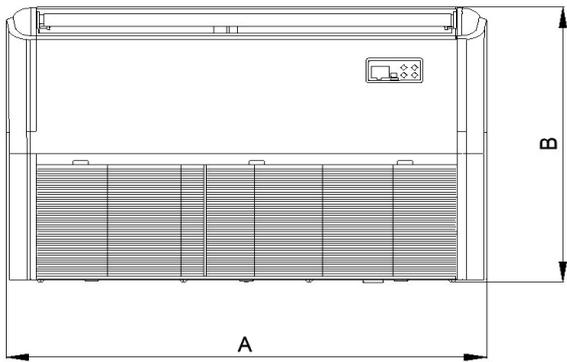
Power Supply	208 / 230 V,60 Hz,1 Ph
System MCA	44.0
Communication wiring	AWG 20/2
System MOCP	45.0
Compressor RLA	27
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	1
Indoor Fan Motor W	90
System Power Input @ Cooling (W)	5,106 (730~5,760)
System Power Input @ Heating (W)	5,330 (1145~5,900)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52 mm)
Gas Size	3/4" (19 mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	127 (3.6)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

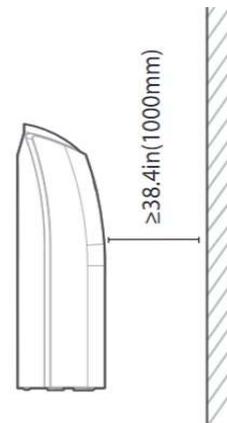
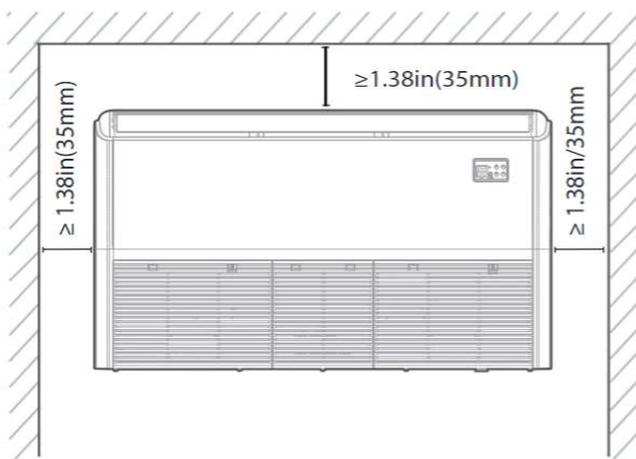
Indoor Unit Dimension

Unit: inch (mm)



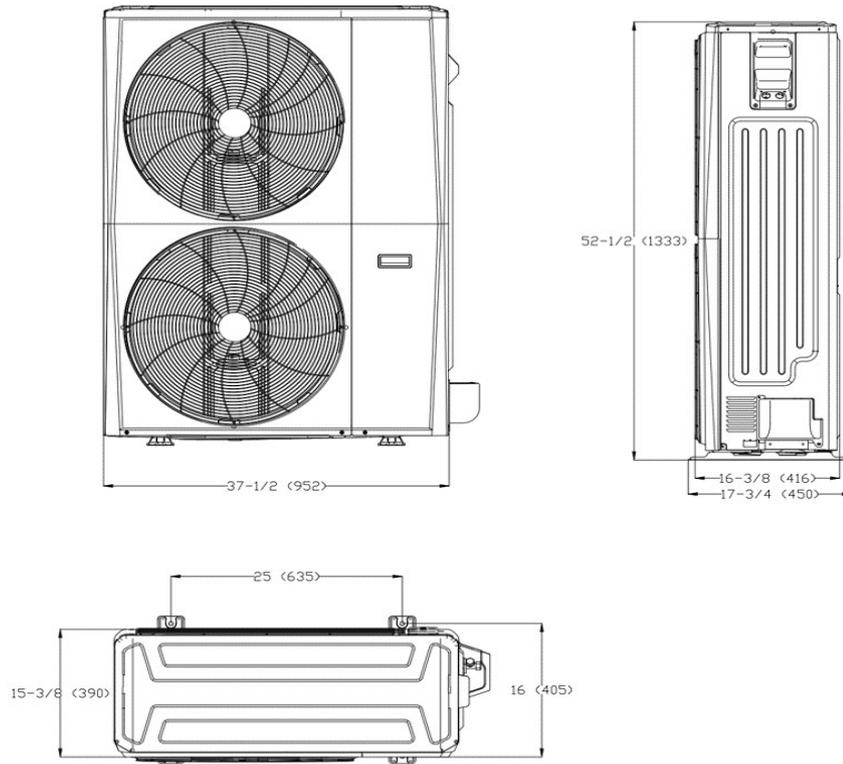
Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

Installation Instruction

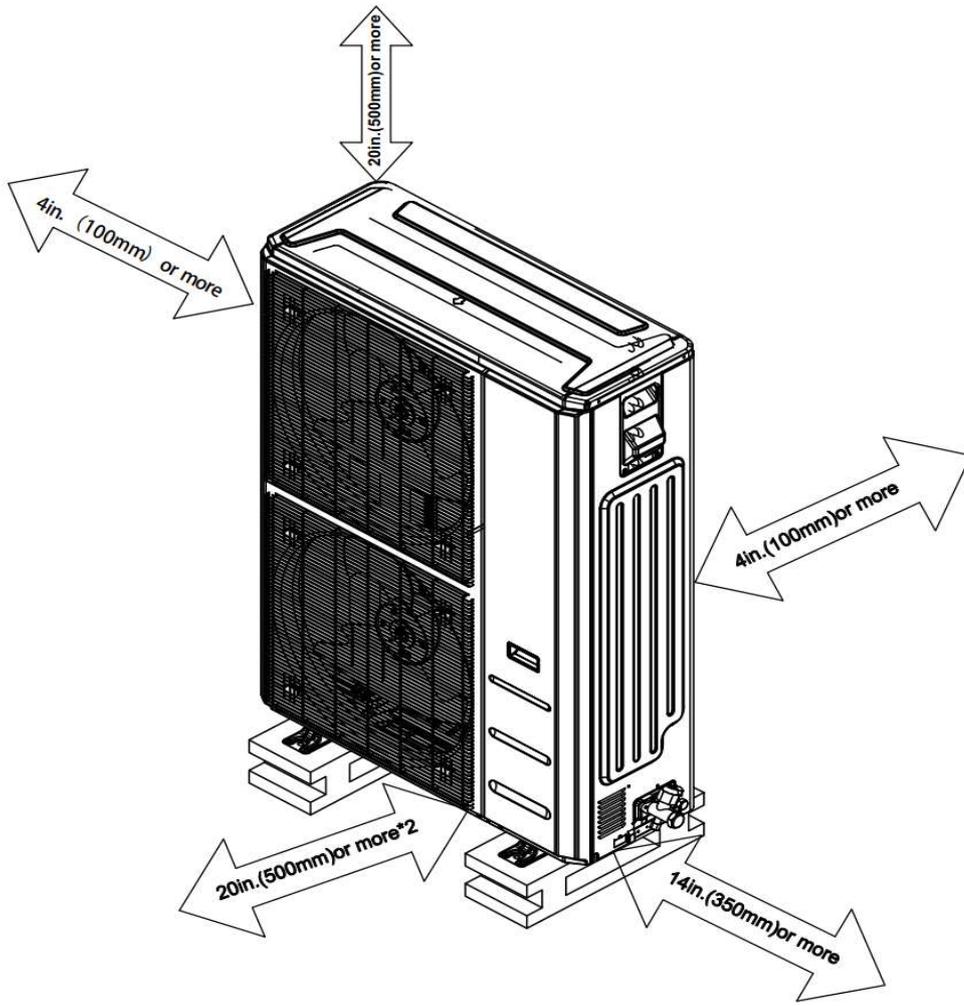


Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction



FEATURES

- 2 Style Installation
- 3D Airflow
- Refrigerant leakage detection sensor
- Humidity sensor
- “88” display tube
- 1~100% fan speed setting
- WiFi capability: Wired controller with built-in Wi-Fi
- OTA(by using 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
 - Two-way communication wired controller with built-in Wi-Fi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat*

*24V interface is required.