

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Xtreme Heat Series
Model Number: MFBHU-H24B-2A/MO1HS-H24B-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)	736 / 706 / 606 / 453 / 377	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	52 / 49 / 45 / 34 / 29	
Dimension (W×D×H)	inch	42 x 26-5/8 x 9-1/4
	mm	1068 × 675 × 235
Package (W×D×H)	inch	45-1/8 x 29-3/4 x 12-1/2
	mm	1145 × 755 × 318
Net/Gross Weight	lbs	61 / 73
	kg	27.8 / 33.2

OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KTM240D46UKT2	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	620	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2,237	
Outdoor Noise Level (dBA)	61.5	
Dimension (W×D×H)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 × 410 × 810
Package (W×D×H)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 × 500 × 885
Net/Gross Weight	lbs	130 / 141
	kg	59.1 / 64.1

EFFICIENCY

Cooling		Heating	
SEER2	20.4	HSPF2-4	12.1
EER2	12.0	COP	3.34

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	22,000
Min/Max Capacity	12,700~25,600
Moisture Removal(L/h)	2.73
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	26,000
1. @ 47°F Min/Max Capacity	11,300~29,500
2. @ 17°F Rated	20,200
3. @ 5°F Rated: Capacity / COP	24,200 / 2.16
3. @ 5°F Max: Capacity	24,200
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

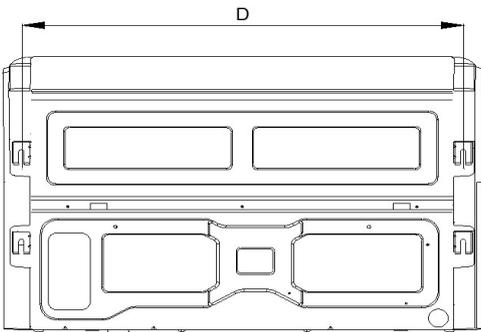
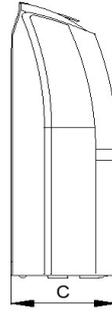
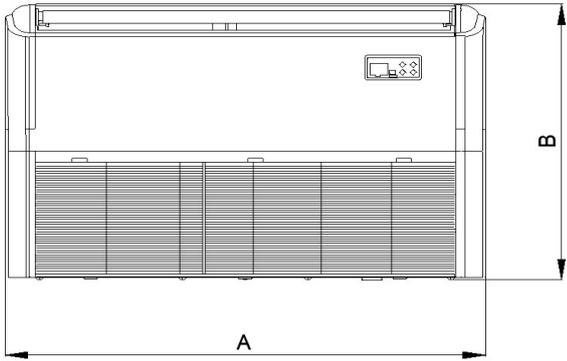
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	24.9	
Connection Wiring	AWG 14/4	
System MOCP	25.0	
Compressor RLA	15	
Outdoor Fan Motor RLA	1.3	
Outdoor Fan Motor W	120	
Indoor Fan Motor RLA	1	
Indoor Fan Motor W	90	
System Power Input @ Cooling (W)	1,833 (980~2,300)	
System Power Input @ Heating (W)	2,194 (630~2,570)	
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	5/8" (15.9 mm)	
Max. Piping Length(ft/m)	164 (50)	
Max. Height Difference(ft/m)	82 (25)	
Max. Pre-charged Length(ft/m)	25 (7.5)	
Refrigerant Pre-charged Amount(oz/kg)	63 (1.8)	
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)	
Connection Method	Flared	

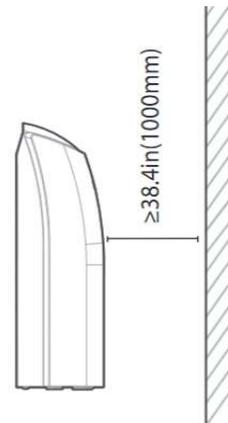
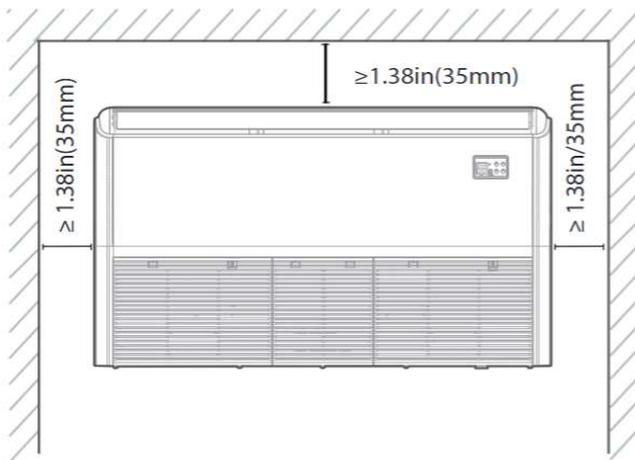
Indoor Unit Dimension

Unit: inch (mm)



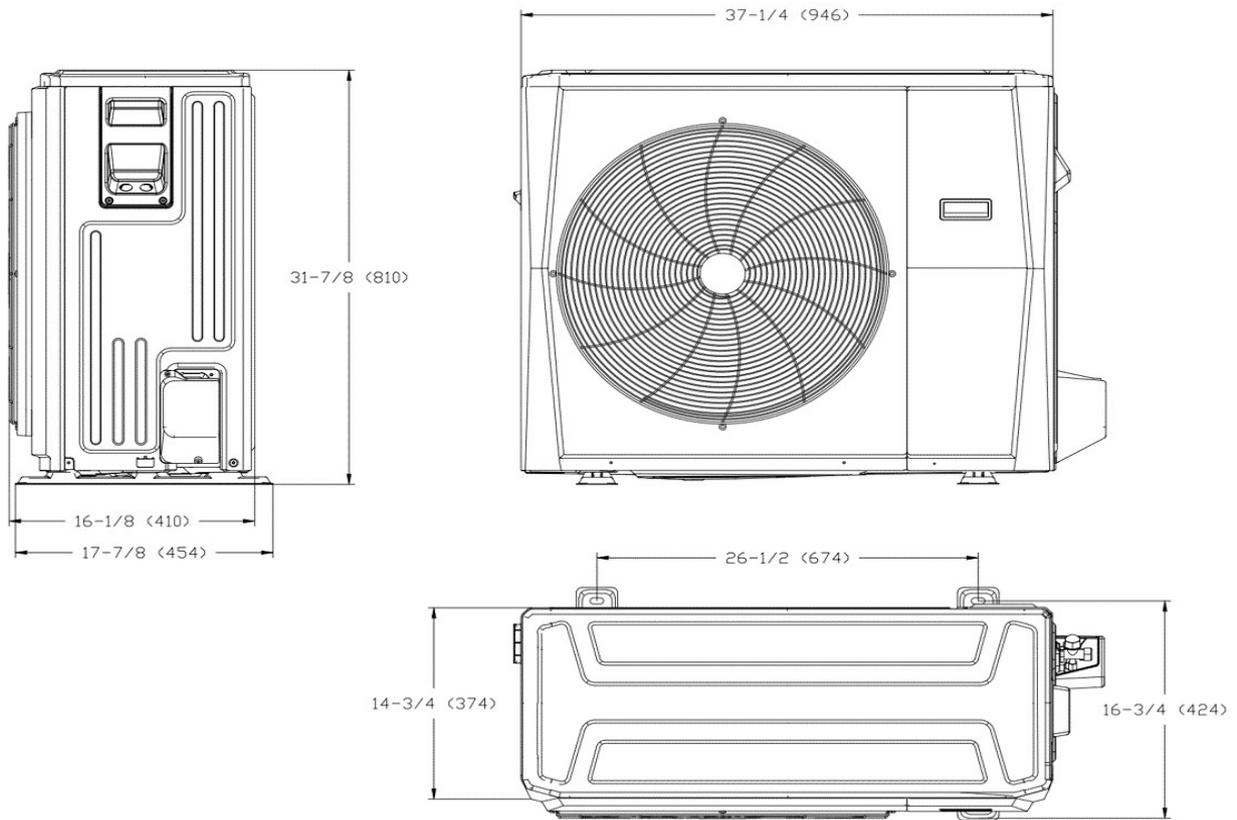
Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

Installation Instruction

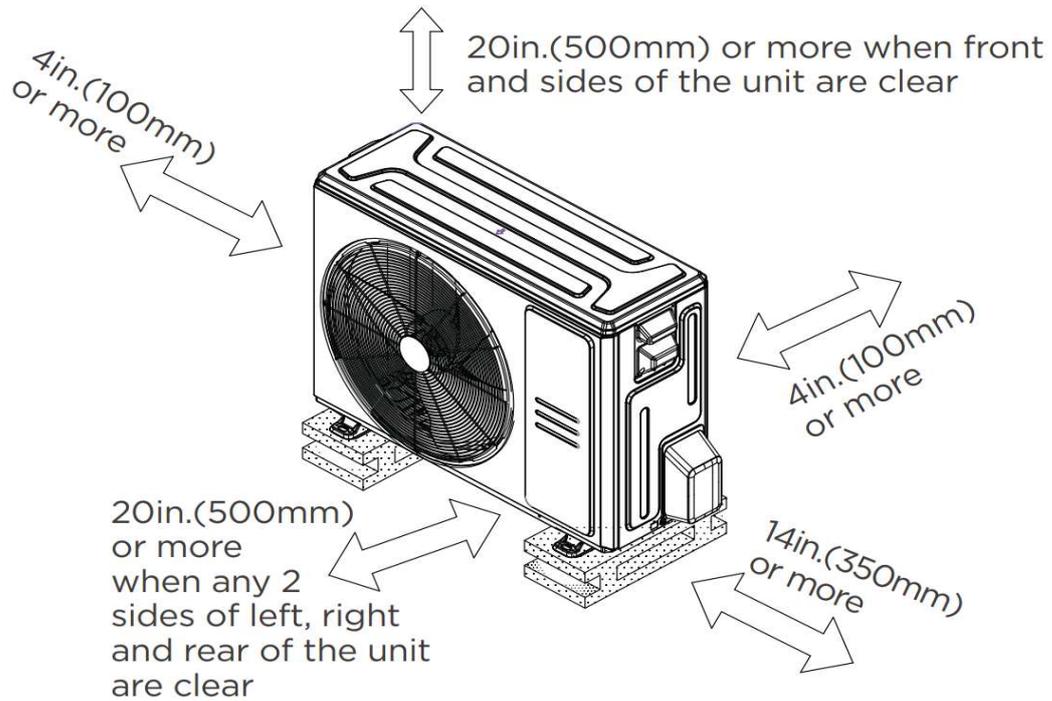


Outdoor Unit Dimension

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.