

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Energy Star Series
Model Number: MFBHU-H24B-2A/MO1ES-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)	51 / 49 / 45 / 34 / 29	
Dimension (WxDxH)	inch	42 x 26-5/8 x 9-1/4
	mm	1068 x 675 x 235
Package (WxDxH)	inch	45-1/8 x 29-3/4 x 12-1/2
	mm	1145 x 755 x 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)	59	
Dimension (WxDxH)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 x 410 x 810
Package (WxDxH)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 x 500 x 885
Net/Gross Weight	lbs	122 / 132
	kg	55.4 / 60.0

EFFICIENCY

Cooling		Heating	
SEER2	21.1	HSPF2-4	11.1
EER2	12.2	COP	2.99

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24,000
Min/Max Capacity	11,100~29,000
Moisture Removal(L/h)	3.07
Standard Operating Range(*F/*C)	-13~122 (-25~50)
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	24,400
1. @ 47°F Min/Max Capacity	11,800~32,600
2. @ 17°F Rated	20,000
3. @ 5°F Rated: Capacity / COP	18,600 / 2.27
3. @ 5°F Max: Capacity	18,600
Standard Operating Range(*F/*C)	-13~75 (-25~24)
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

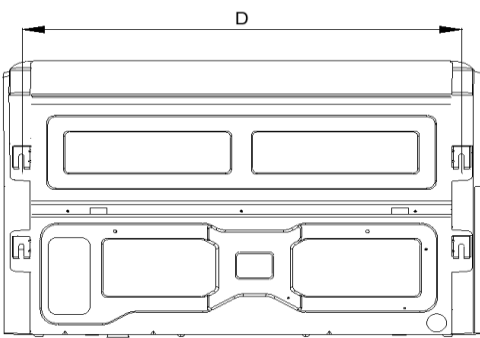
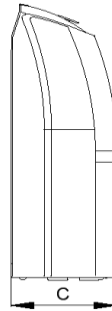
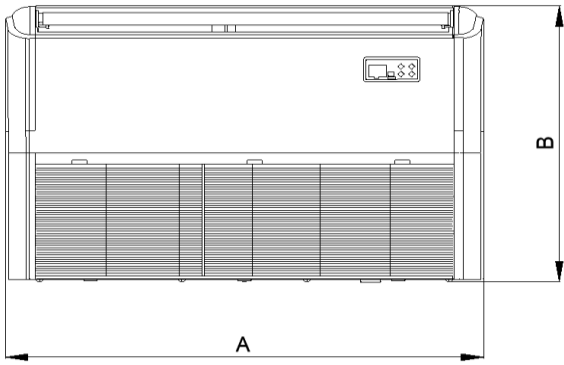
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	24.0	
Connection Wiring	AWG 14/4	
System MOCP	25.0	
Compressor RLA	15.4	
Outdoor Fan Motor RLA	1	
Outdoor Fan Motor W	120	
Indoor Fan Motor RLA	1	
Indoor Fan Motor W	96	
System Power Input @ Cooling (W)	1,967 (820~2,610)	
System Power Input @ Heating (W)	2,385 (675~2,990)	
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)	71 (2)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

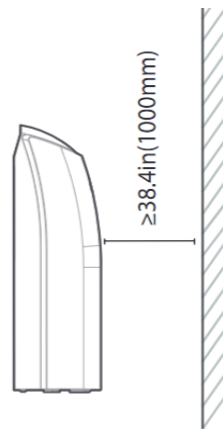
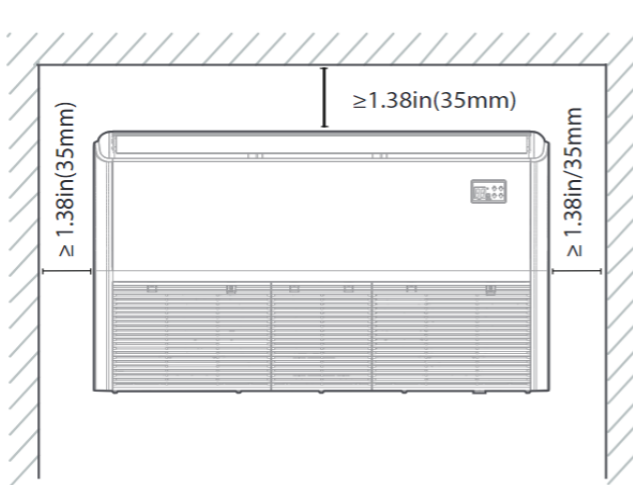
Indoor Unit Dimension

Unit: inch (mm)

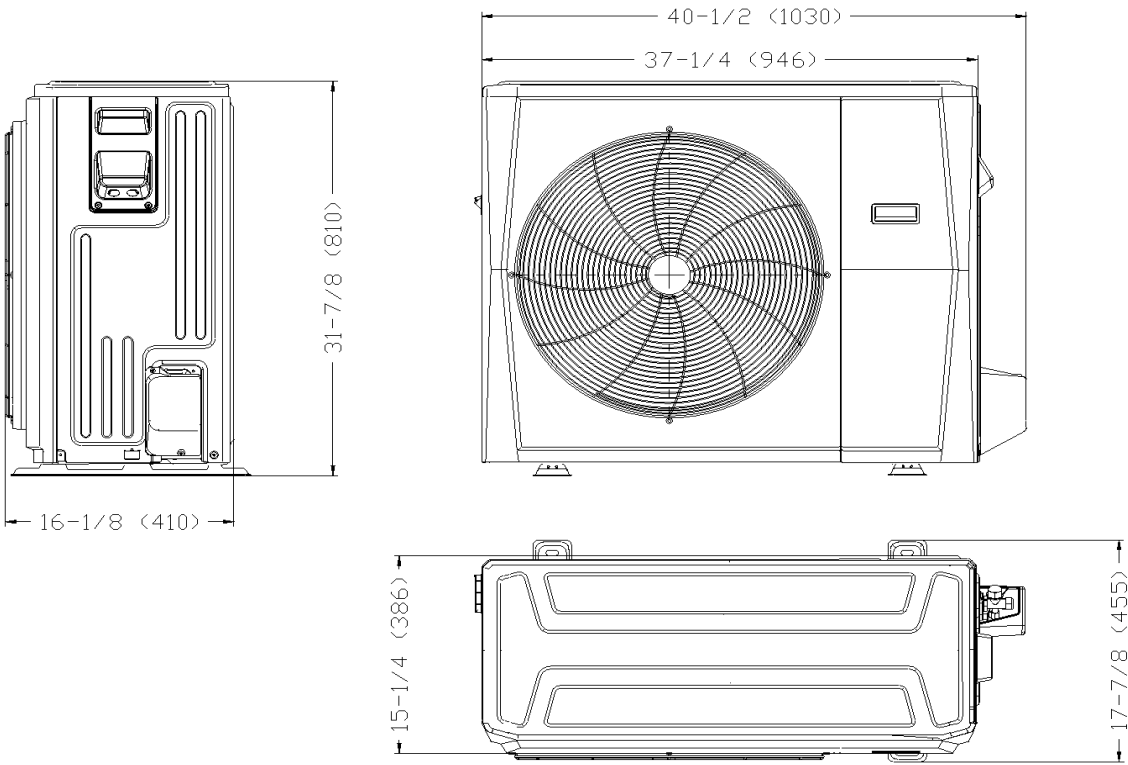


Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

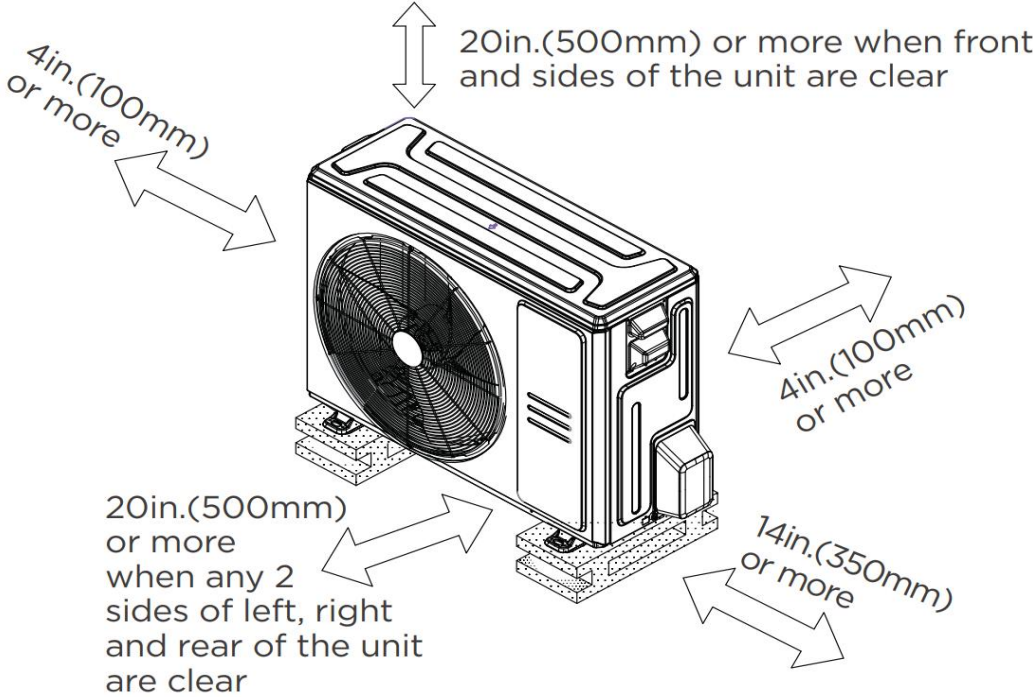
Installation Instruction



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: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using WiFi dongle)
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*

*24V interface is required.

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