

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Xtreme Heat Series  
 Model Number: MFBHU-H18B-2A/MO1HS-H18B-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)	577 / 547 / 486 / 421 / 421		
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	45 / 43 / 40 / 31 / 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	58 / 71	
	kg	26.5 / 32.0	

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY		
Compressor Model	KTM240D46UKT2		
Refrigerant	R454B		
Refrigerant Oil Charge(mL)	620		
Refrigerant Oil	VG74		
Outdoor Air Flow (Max) (CFM)	1,766		
Outdoor Noise Level (dBA)	58		
Dimension (W×D×H)	inch	35 x 13-1/2 x 26-1/2	
	mm	890 × 342 × 673	
Package (W×D×H)	inch	39-1/8 x 15-5/8 x 29-1/8	
	mm	995 × 398 × 740	
Net/Gross Weight	lbs	100 / 108	
	kg	45.3 / 48.9	

### EFFICIENCY

Cooling		Heating	
SEER2	20.4	HSPF2-4	10.3
EER2	12.5	COP	3.07

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	17,000
Min/Max Capacity	7,400~19,200
Moisture Removal(L/h)	1.73
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	19,000
1. @ 47°F Min/Max Capacity	8,300~20,700
2. @ 17°F Rated	14,400
3. @ 5°F Rated: Capacity / COP	17,000 / 1.86
3. @ 5°F Max: Capacity	17,000
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

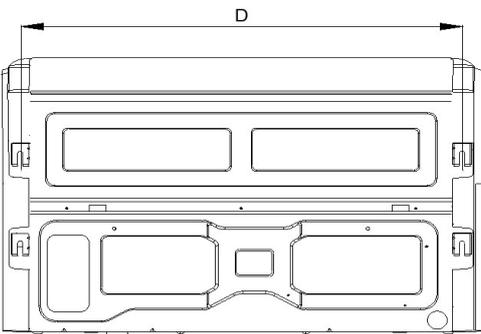
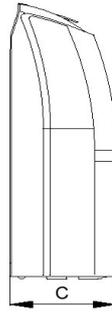
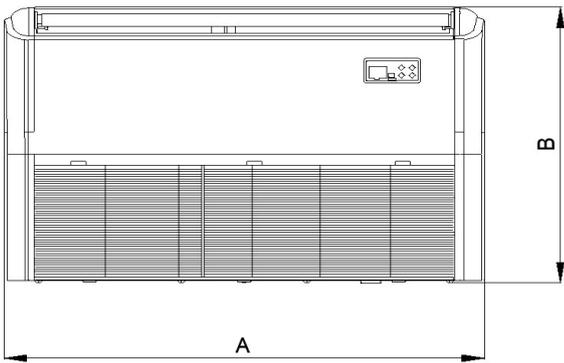
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	19.0	
Connection wiring	AWG 14/4	
System MOCP	20.0	
Compressor RLA	11.7	
Outdoor Fan Motor RLA	0.9	
Outdoor Fan Motor W	80	
Indoor Fan Motor RLA	1	
Indoor Fan Motor W	90	
System Power Input @ Cooling (W)	1,350 (500~1,670)	
System Power Input @ Heating (W)	1,814 (525~1,830)	
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	1/4" (6.35 mm)
Gas Size	1/2" (12.7 mm)
Max. Piping Length(ft/m)	98 (30)
Max. Height Difference(ft/m)	66 (20)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	55 (1.57)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.16 (15)
Connection Method	Flared

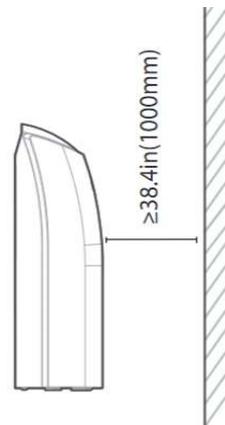
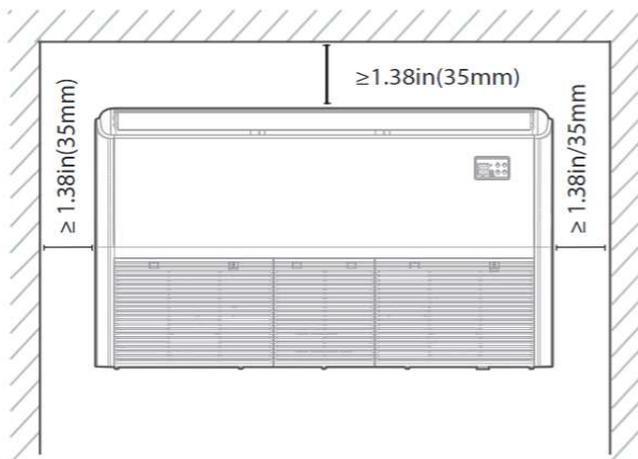
Indoor Unit Dimension

Unit: inch (mm)



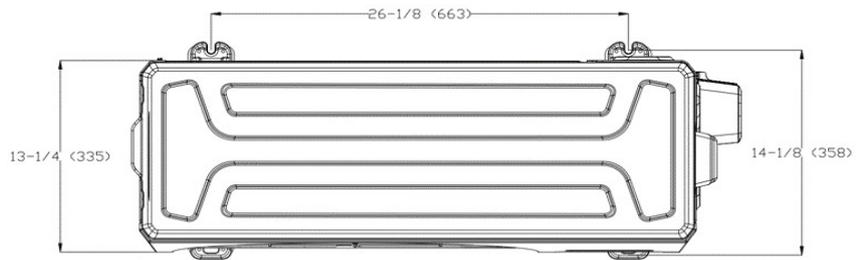
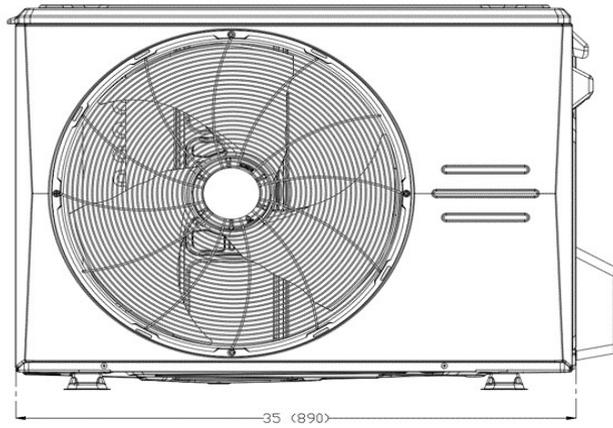
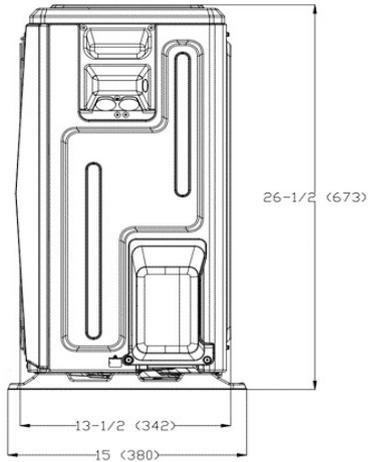
Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

Installation Instruction

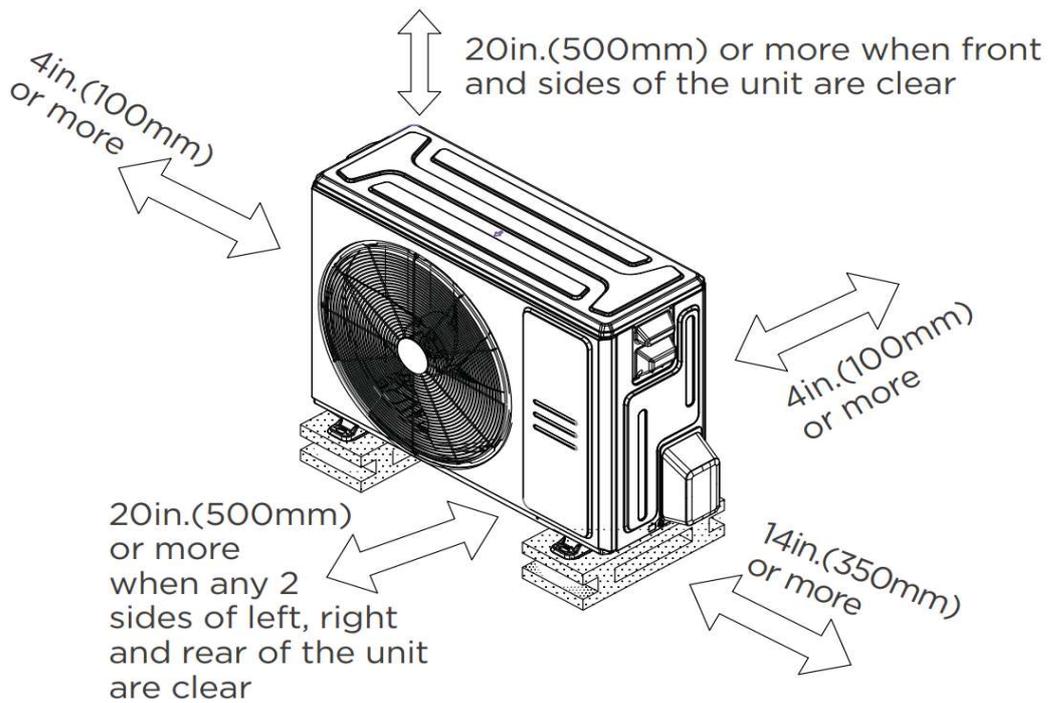


### Outdoor Unit Dimension

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.