

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Energy Star Series
Model Number: MFBHU-H18B-2A/MO1ES-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)	43 / 43 / 40 / 32 / 29	
Dimension (W×D×H)	inch	42 x 26-5/8 x 9-1/4
	mm	1068 x 675 x 235
Package (W×D×H)	inch	45-1/8 x 29-3/4 x 12-1/2
	mm	1145 x 755 x 318
Net/Gross Weight	lbs	58 / 71
	kg	26.5 / 32.0

OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KSN140D58UFZ	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	440	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1,766	
Outdoor Noise Level (dBA)	57	
Dimension (W×D×H)	inch	35 x 13-1/2 x 26-1/2
	mm	890 x 342 x 673
Package (W×D×H)	inch	39-1/8 x 15-5/8 x 29-1/8
	mm	995 x 398 x 740
Net/Gross Weight	lbs	93 / 100
	kg	42.0 / 45.5

EFFICIENCY

Cooling		Heating	
SEER2	22.3	HSPF2-4	10.4
EER2	12.5	COP	3.30

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	7,000~19,300
Moisture Removal(L/h)	2.10
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	18,000
1. @ 47°F Min/Max Capacity	7,200~22,200
2. @ 17°F Rated	13,700
3. @ 5°F Rated: Capacity / COP	12,800 / 2.05
3. @ 5°F Max: Capacity	12,800
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

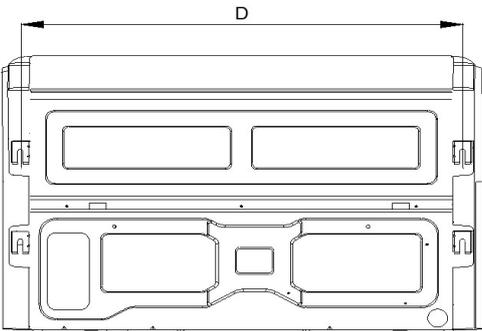
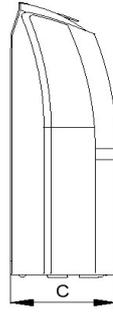
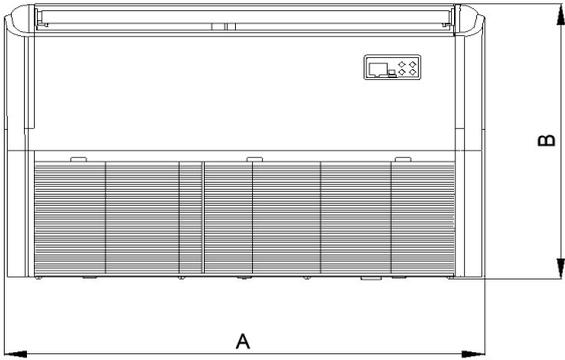
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	18.0	
Connection Wiring	AWG 14/4	
System MOCP	20.0	
Compressor RLA	10	
Outdoor Fan Motor RLA	0.9	
Outdoor Fan Motor W	80	
Indoor Fan Motor RLA	1	
Indoor Fan Motor W	96	
System Power Input @ Cooling (W)	1,440 (570~1,680)	
System Power Input @ Heating (W)	1,599 (415~1,990)	
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	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)	48 (1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.16 (15)
Connection Method	Flared

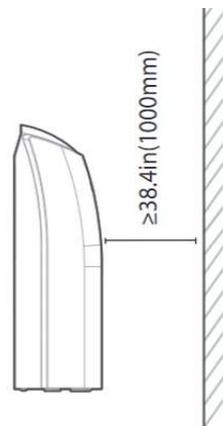
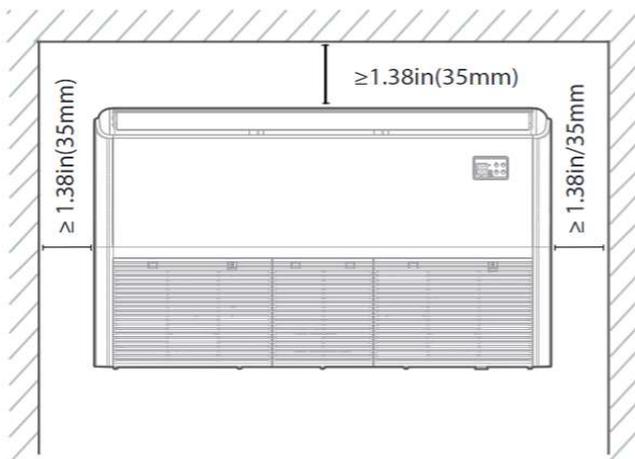
Indoor Unit Dimension

Unit: inch (mm)



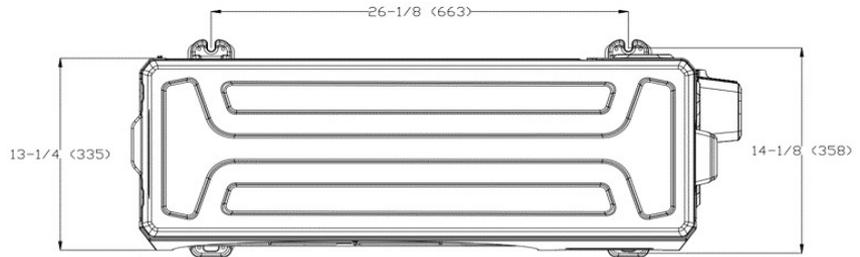
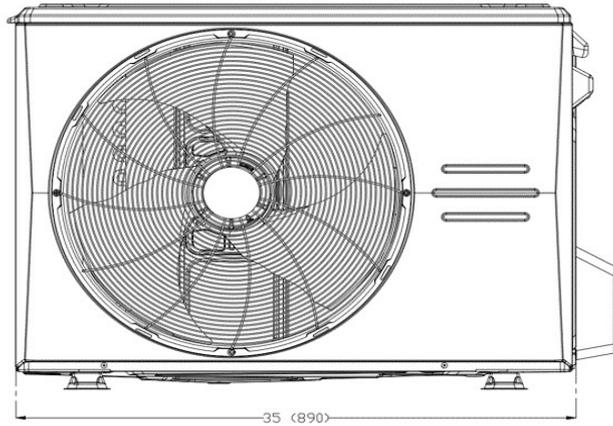
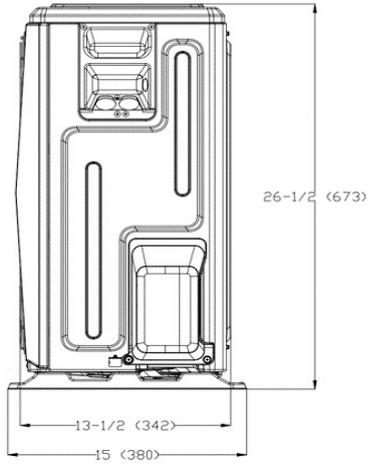
Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

Installation Instruction

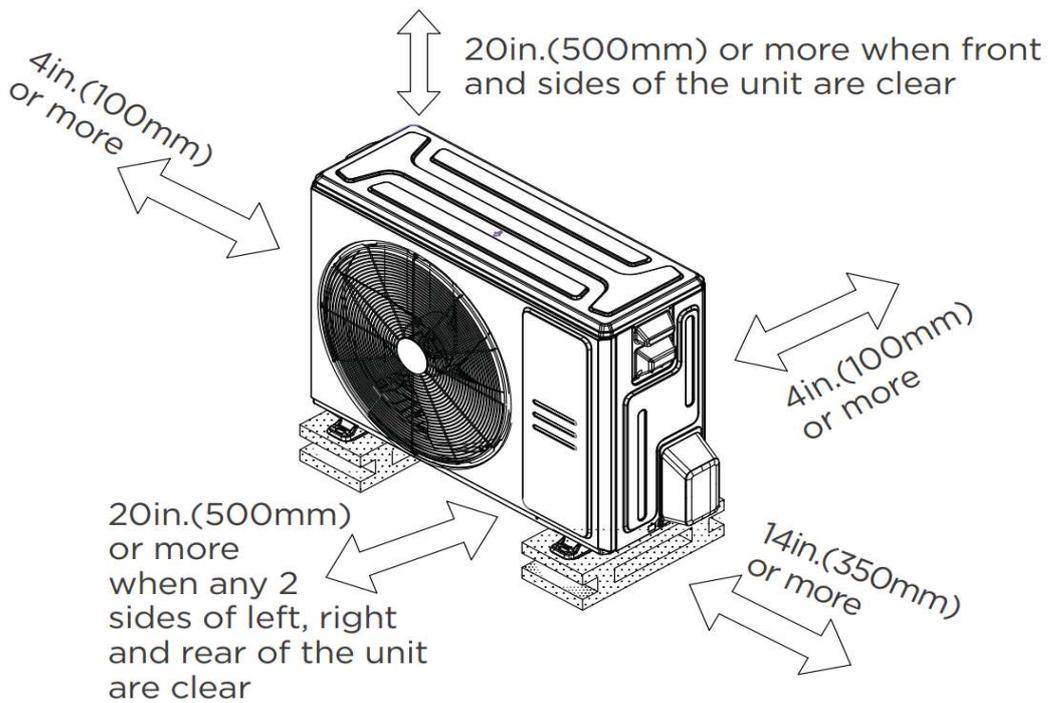


Outdoor Unit Dimension

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.