

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Ceiling&FloorRegular Series
Model Number: MFBHS-H48B-2A/MO1BU-H48B-2A

Ceiling&Floor Regular 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)	53 / 53 / 49 / 39 / 35
Dimension (W×D×H)	inch: 65 x 26-5/8 x 9-1/4 mm: 1650 x 675 x 235
Package (W×D×H)	inch: 67-7/8 x 29-3/4 x 12-1/2 mm: 1725 x 755 x 318
Net/Gross Weight	lbs: 89 / 105 kg: 40.4 / 47.7

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTQ420D1UMU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1400
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	4,238
Outdoor Noise Level (dBA)	62.5
Dimension (W×D×H)	inch: 37-1/2 x 16-3/8 x 52-1/2 mm: 952 x 415 x 1333
Package (W×D×H)	inch: 43-1/8 x 19-1/2 x 57-1/2 mm: 1095 x 495 x 1460
Net/Gross Weight	lbs: 209 / 240 kg: 94.7 / 108.8

EFFICIENCY

Cooling	Heating
SEER2	HSPF2-4
EER2	COP
19.8	10.2
9.5	2.82

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	10,100~50,000
Moisture Removal(L/h)	5.95
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	50,000
1. @ 47°F Min/Max Capacity	15,800~59,100
2. @ 17°F Rated	39,500
3. @ 5°F Rated: Capacity / COP	38,500 / 1.95
3. @ 5°F Max: Capacity	38,500
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

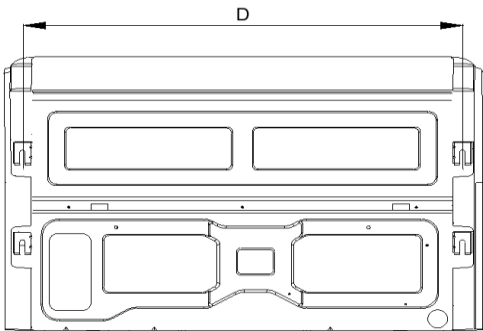
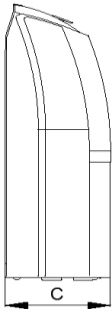
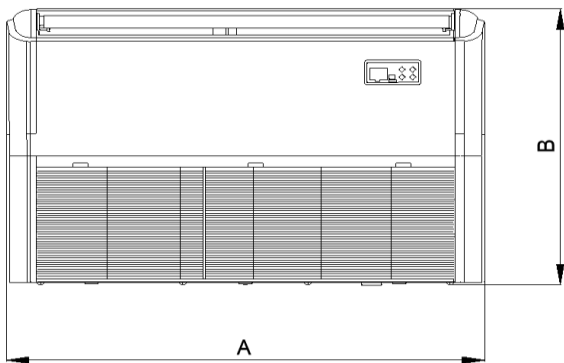
Power Supply	208 / 230 V, 60 Hz, 1 Ph
System MCA	39.0
Connection Wiring	AWG 14/3
System MOCP	40.0
Compressor RLA	24
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	1
Indoor Fan Motor W	90
System Power Input @ Cooling (W)	5,053 (830~5,280)
System Power Input @ Heating (W)	5,196 (575~5,860)
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

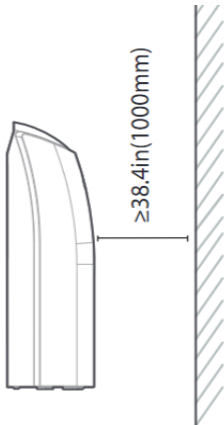
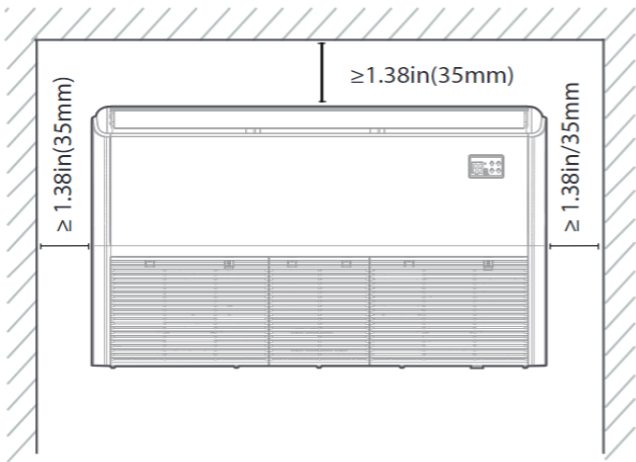
Indoor Unit Dimension

Unit: inch (mm)



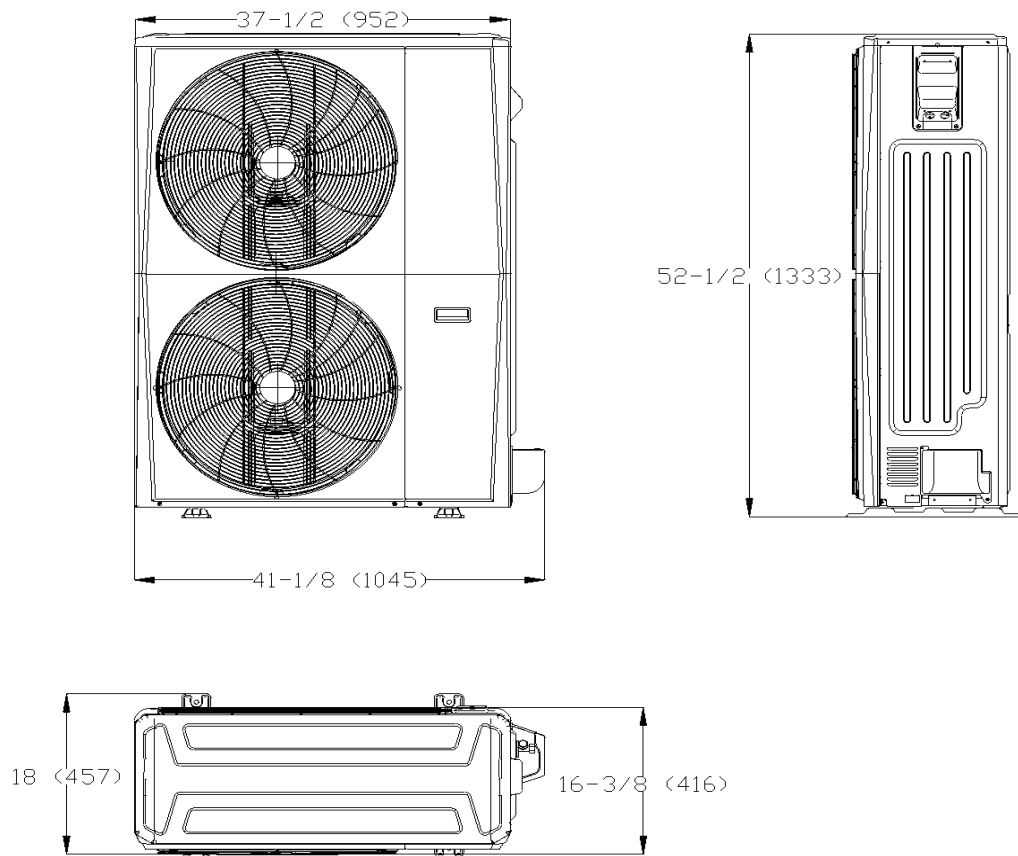
Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

Installation Instruction

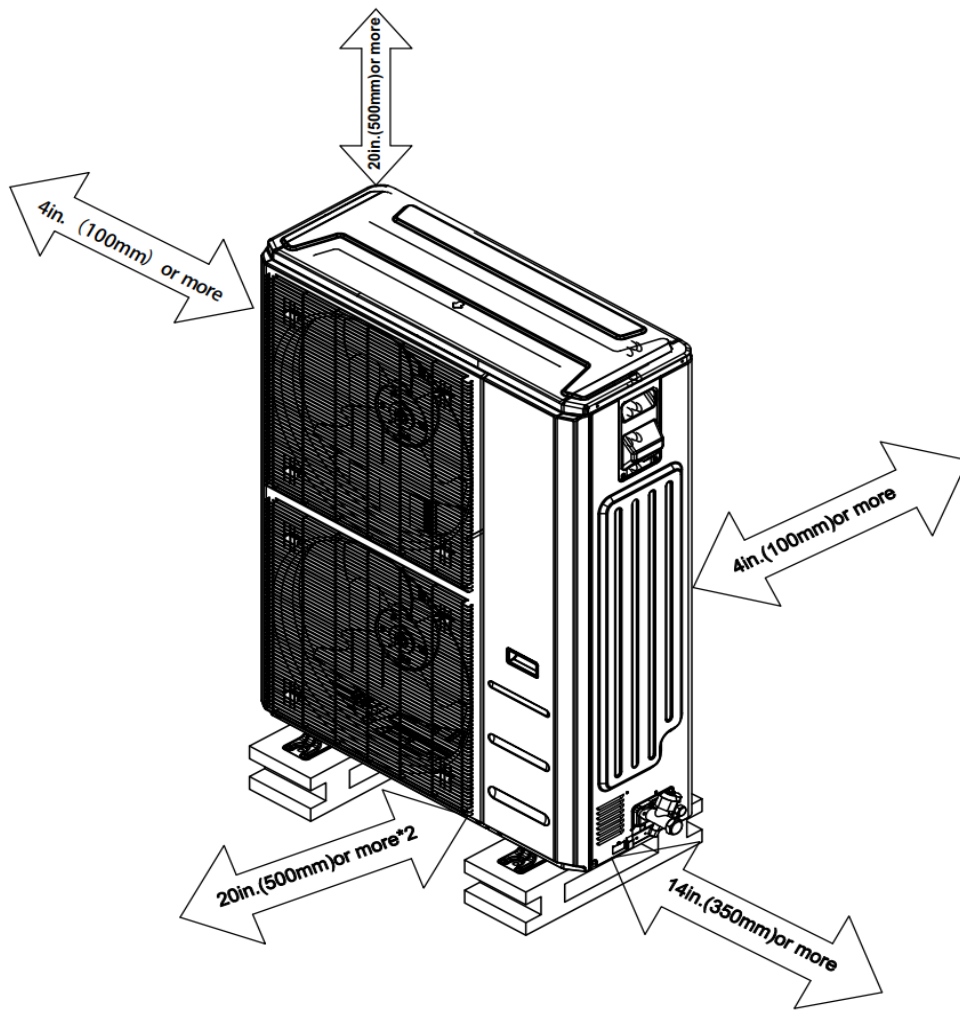


Outdoor Unit Dimension

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: 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.