

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Xtreme Heat Series
Model Number: MCDHS-H48B-2A/MO1HU-H48B-2A

4-Way Cassette 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)	1236 / 1124 / 1018 / 801 / 689
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	52 / 52 / 50 / 42 / 38
Dimension (W×D×H)	inch 32-5/8 x 32-5/8 x 11-1/4
	mm 830 × 830 × 287
Package (W×D×H)	inch 35-7/8 x 35-7/8 x 13
	mm 910 × 910 × 330
Net/Gross Weight	lbs 65 / 76
	kg 29.3 / 34.5

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY
Compressor Model	EKPQ420D1UMUA
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,460
Refrigerant Oil	VG75
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 × 415 × 1333
Package (W×D×H)	inch 43-1/8 x 19-1/2 x 57-1/2
	mm 1095 × 495 × 1460
Net/Gross Weight	lbs 209 / 240
	kg 94.7/108.8

EFFICIENCY

Cooling	Heating
SEER2	HSPF2-4
18	11.0
EER2	COP
10.0	3.09

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	4,900~52,700
Moisture Removal(L/h)	6.13
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	53,000
1. @ 47°F Min/Max Capacity	19,000~57,400
2. @ 17°F Rated	44,000
3. @ 5°F Rated: Capacity / COP	47,500/1.96
3. @ 5°F Max: Capacity	47,500
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

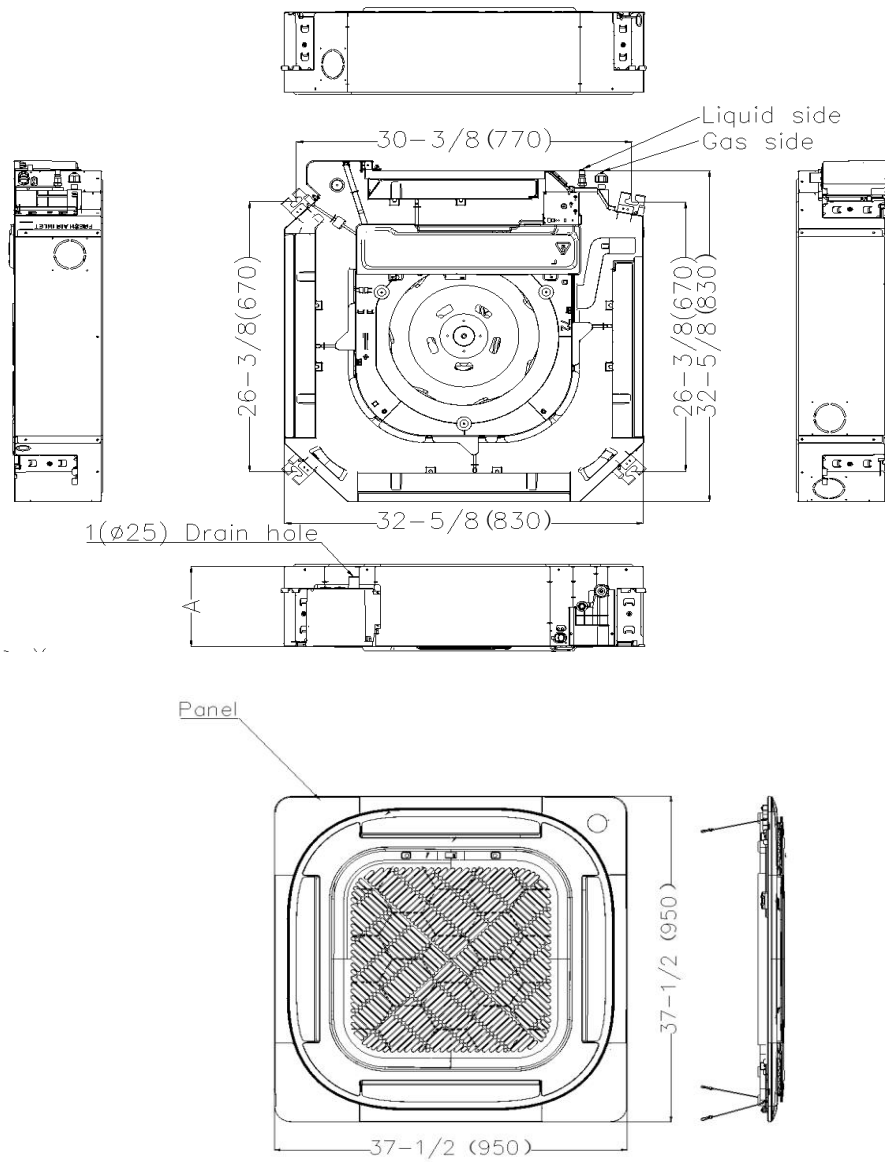
Power Supply	208/230V,60Hz,1Ph
System MCA	44.0
Connection Wiring	AWG 14/3
System MOCP	45.0
Compressor RLA	27
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	125
System Power Input @ Cooling (W)	4,800 (710 ~ 5,750)
System Power Input @ Heating (W)	5,027 (1,135 ~ 5,660)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

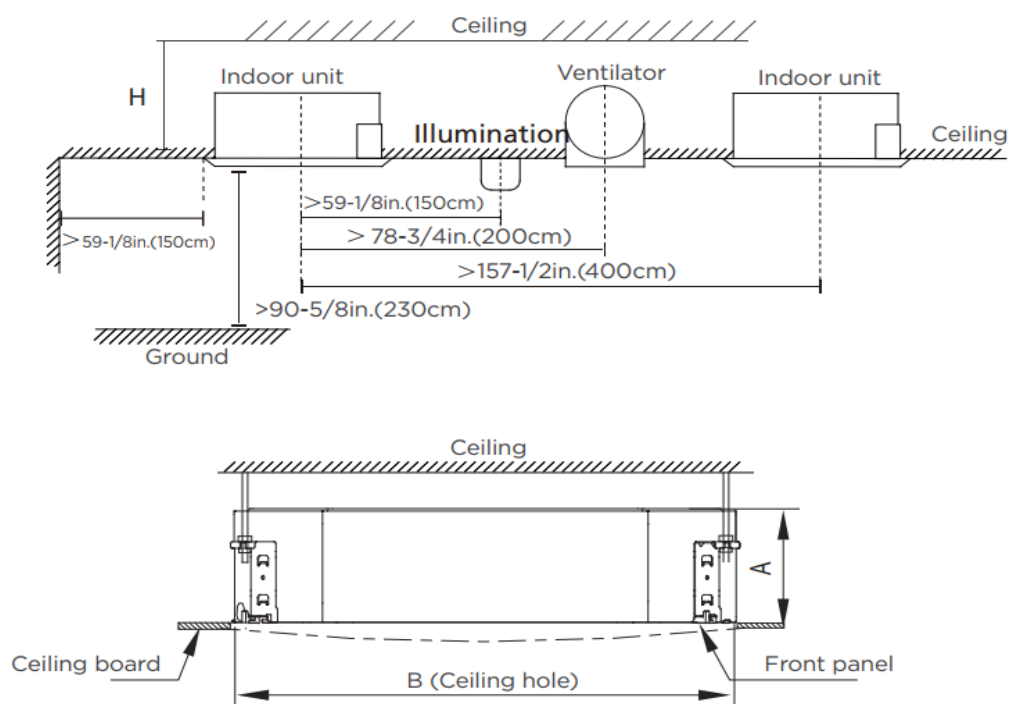
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	127 (3.6)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



Installation Instruction

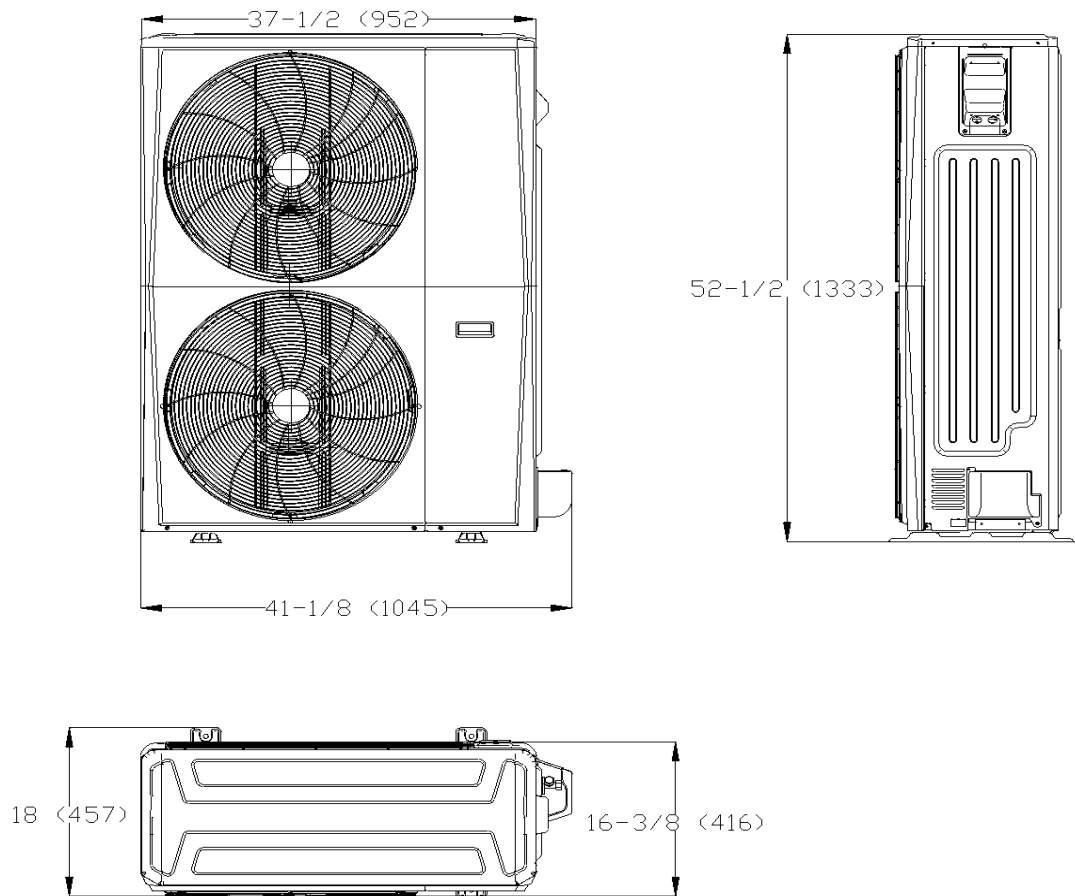


Distance from ceiling relative to height of indoor unit

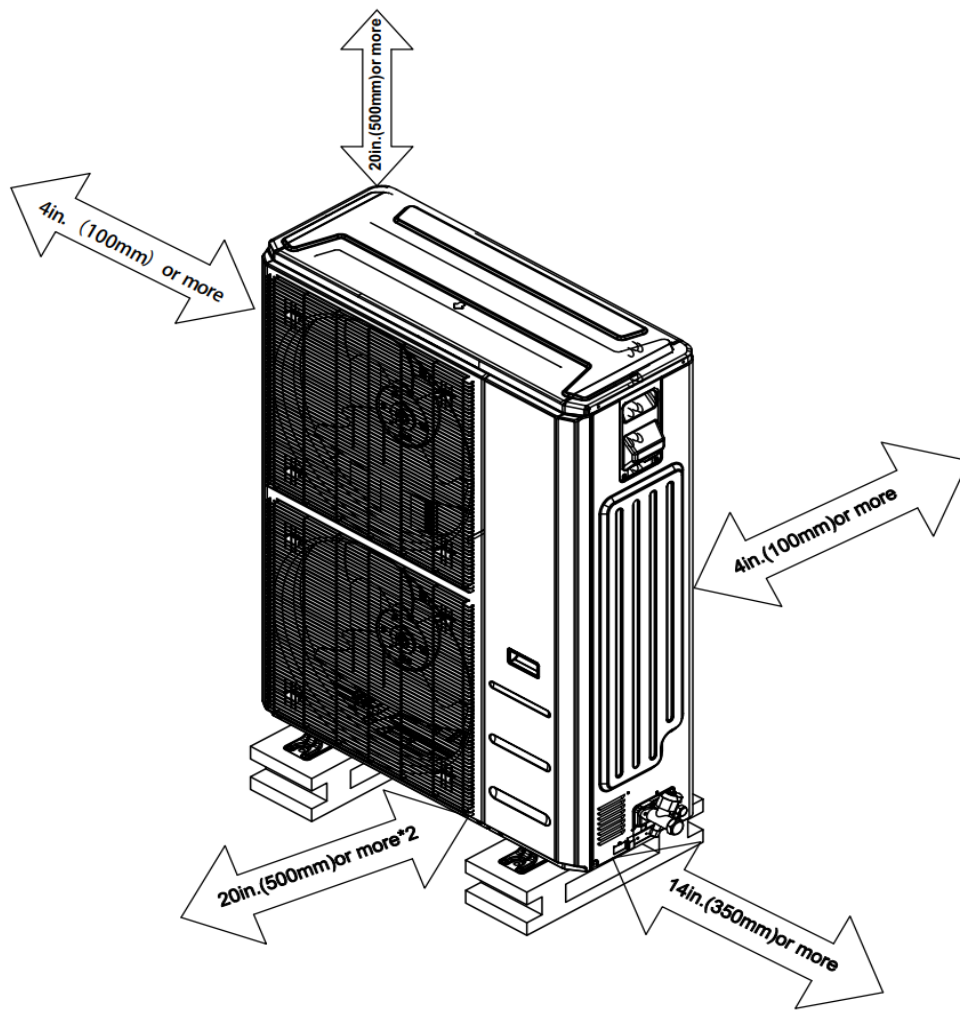
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4 in.(275mm)	23-5/8 in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	35-3/8 in.(900mm)
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction



FEATURES

- 360° Air Flow
- Remote on-off and alarm ports
- Refrigerant leakage detection sensor(Optional)
- Humidity sensor
- Built-in pump
- 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.