

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Energy Star Series
 Model Number: MCDHU-H24B-2A/MO1ES-H24B-2A

4-Way Cassette Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	765 / 706 / 636 / 547 / 547
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	46 / 46 / 43 / 34 / 31
Dimension (W×D×H)	inch 32-5/8 x 32-5/8 x 8-1/8
	mm 830 × 830 × 205
Package (W×D×H)	inch 35-7/8 x 35-7/8 x 9-7/8
	mm 910 × 910 × 250
Net/Gross Weight	lbs 47/59
	kg 21.4/26.8

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)	59.5
Dimension (W×D×H)	inch 37-1/4 x 16-1/8 x 31-7/8
	mm 946 × 410 × 810
Package (W×D×H)	inch 42-7/8 x 19-5/8 x 34-7/8
	mm 1090 × 500 × 885
Net/Gross Weight	lbs 122 / 132
	kg 55.4 / 60.0

EFFICIENCY

Cooling		Heating	
SEER2	22	HSPF2-4	10.5
EER2	12.0	COP	3.20

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24,000
Min/Max Capacity	12,300~26,800
Moisture Removal(L/h)	2.56
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	25,000
1. @ 47°F Min/Max Capacity	11,600~33,100
2. @ 17°F Rated	20,400
3. @ 5°F Rated: Capacity / COP	18,500/2.3
3. @ 5°F Max: Capacity	18,500
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

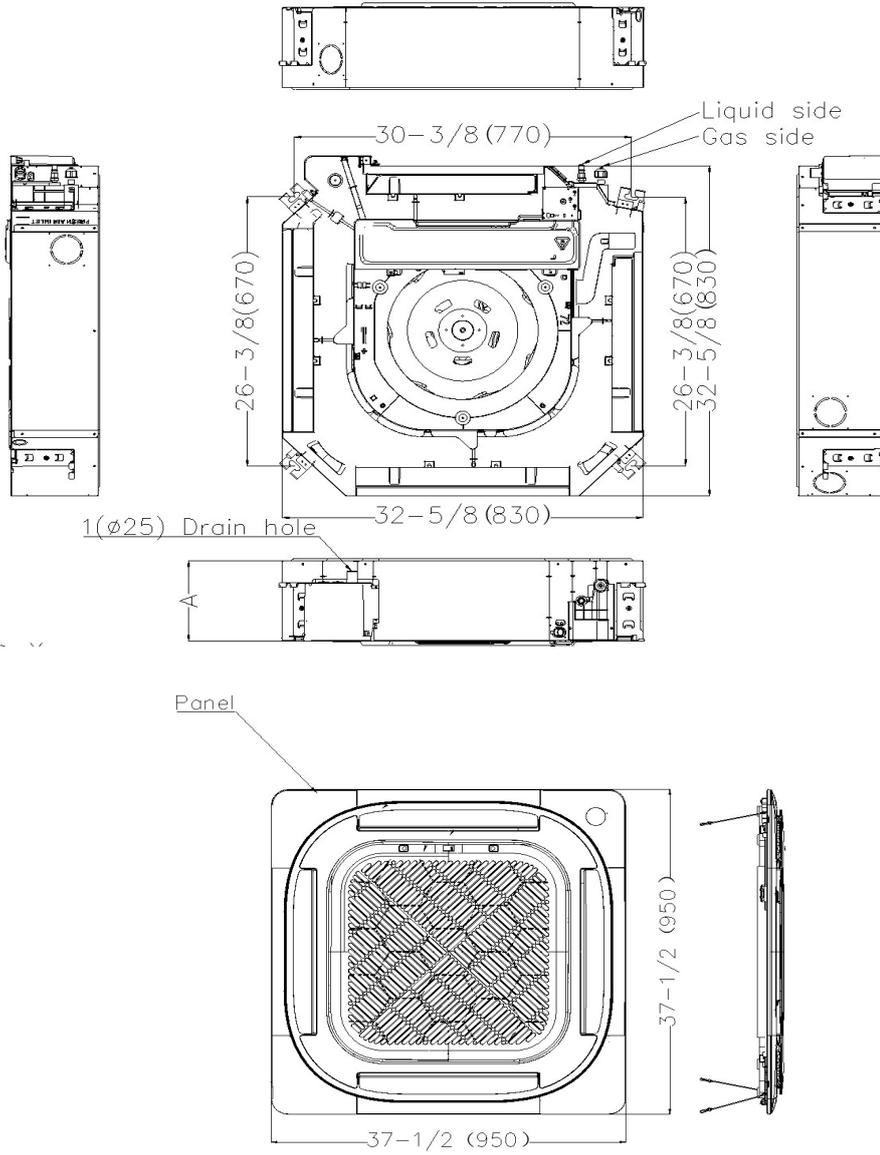
Power Supply	208/230V,60Hz,1Ph
System MCA	24.0
Connection Wiring	AWG 14/4
System MOCP	25.0
Compressor RLA	15.4
Outdoor Fan Motor RLA	1.0
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	2,000 (910 ~ 2,570)
System Power Input @ Heating (W)	2,268 (640 ~2,830)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

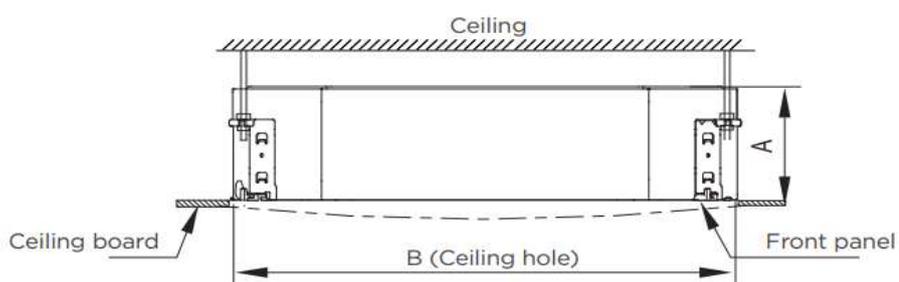
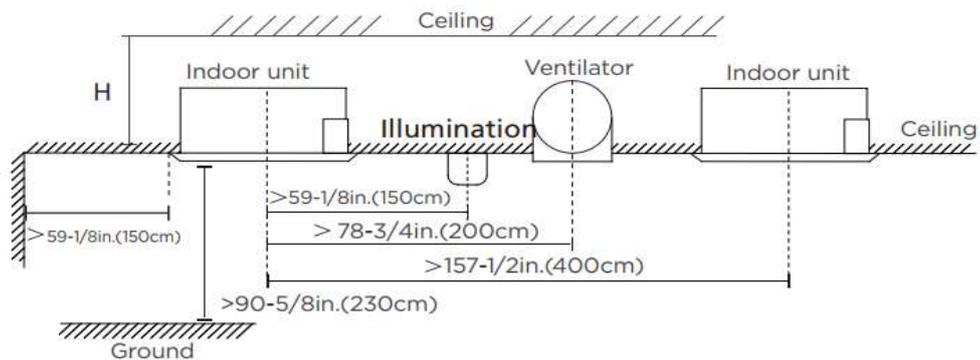
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	5/8" (15.9mm)
Max. Piping Length(ft/m)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	71 (2.00)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



Installation Instruction

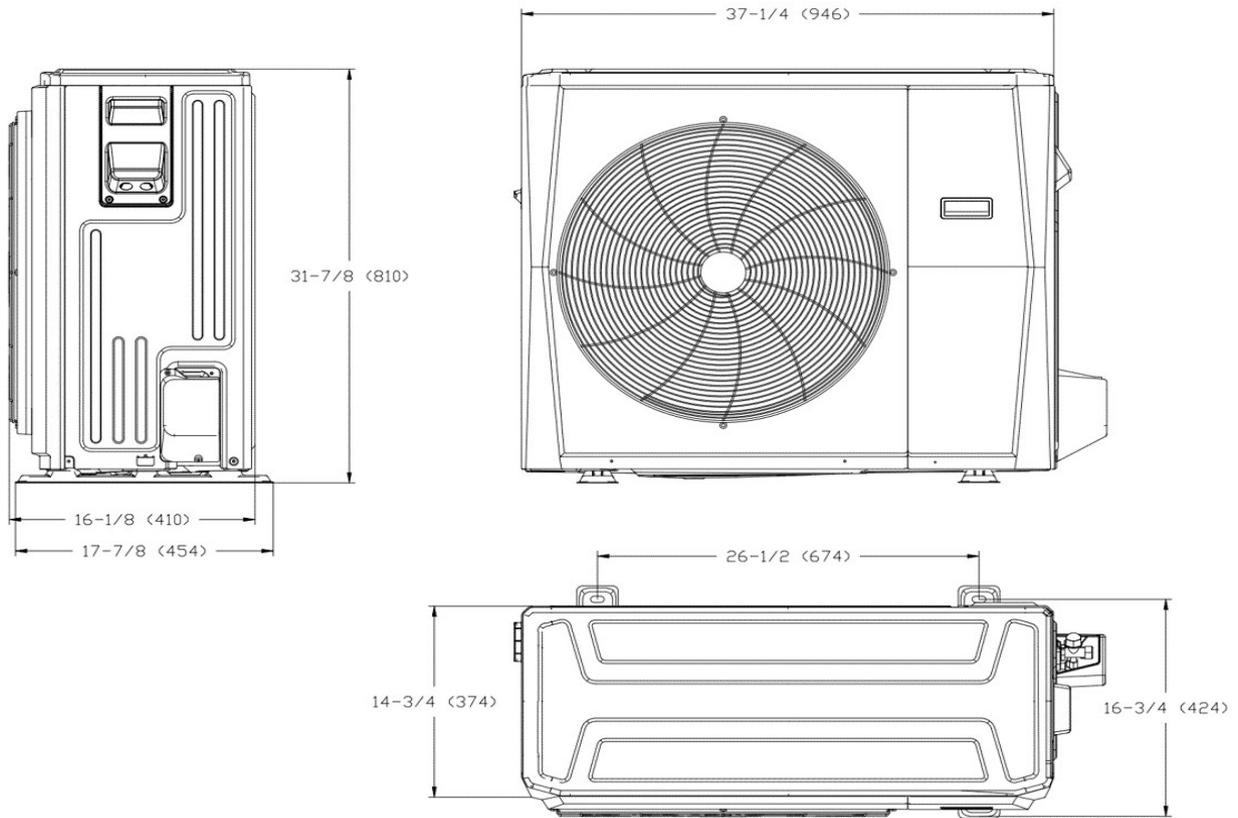


Distance from ceiling relative to height of indoor unit

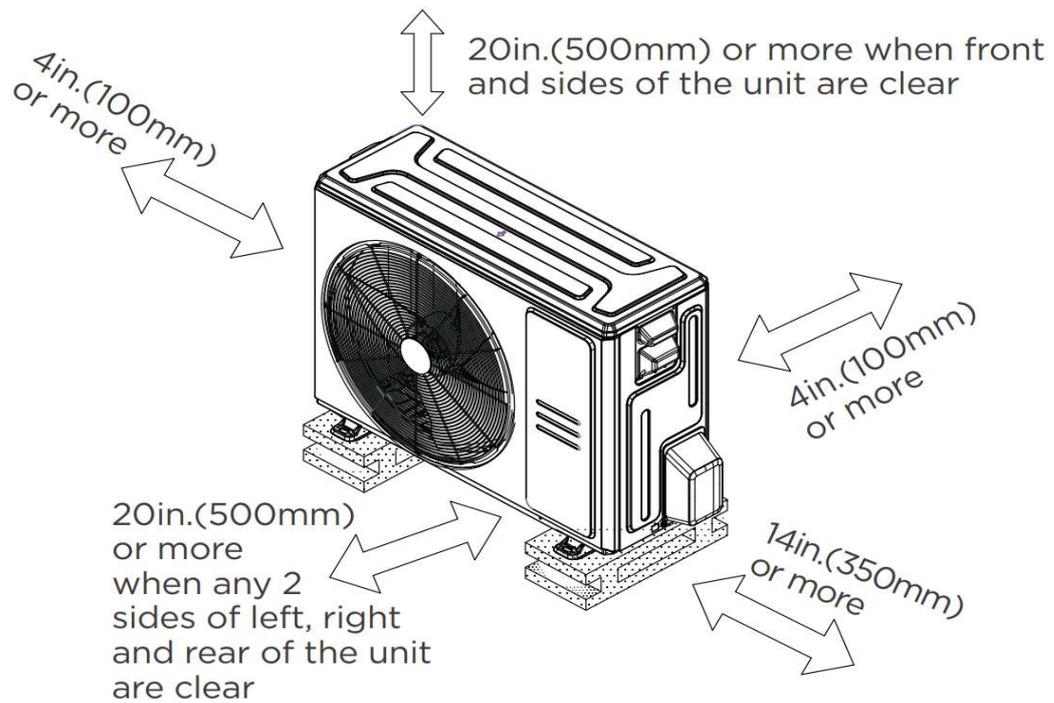
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4 in.(275mm)	23-5/8 in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	35-3/8 in.(900mm)
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

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 Wi-Fi
- OTA(by using WiFi dongle)
- 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.