

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Xtreme Heat Series  
Model Number: MCDHU-H24B-2A/MO1HS-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)	49 / 45 / 43 / 34 / 34
Dimension (WxDxH)	inch 32-5/8 x 32-5/8 x 8-1/8
	mm 830 x 830 x 205
Package (WxDxH)	inch 35-7/8 x 35-7/8 x 9-7/8
	mm 910 x 910 x 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)	61.5
Dimension (WxDxH)	inch 37-1/4 x 16-1/8 x 31-7/8
	mm 946 x 410 x 810
Package (WxDxH)	inch 42-7/8 x 19-5/8 x 34-7/8
	mm 1090 x 500 x 885
Net/Gross Weight	lbs 130/141
	kg 59.1/64.1

### EFFICIENCY

Cooling		Heating	
SEER2	20.7	HSPF2-4	11.6
EER2	12.0	COP	3.54

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	23,400
Min/Max Capacity	12,800~26,200
Moisture Removal(L/h)	2.36
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	25,000
1. @ 47°F Min/Max Capacity	11,500~30,700
2. @ 17°F Rated	20,400
3. @ 5°F Rated: Capacity / COP	23,800/2.23
3. @ 5°F Max: Capacity	23,800
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

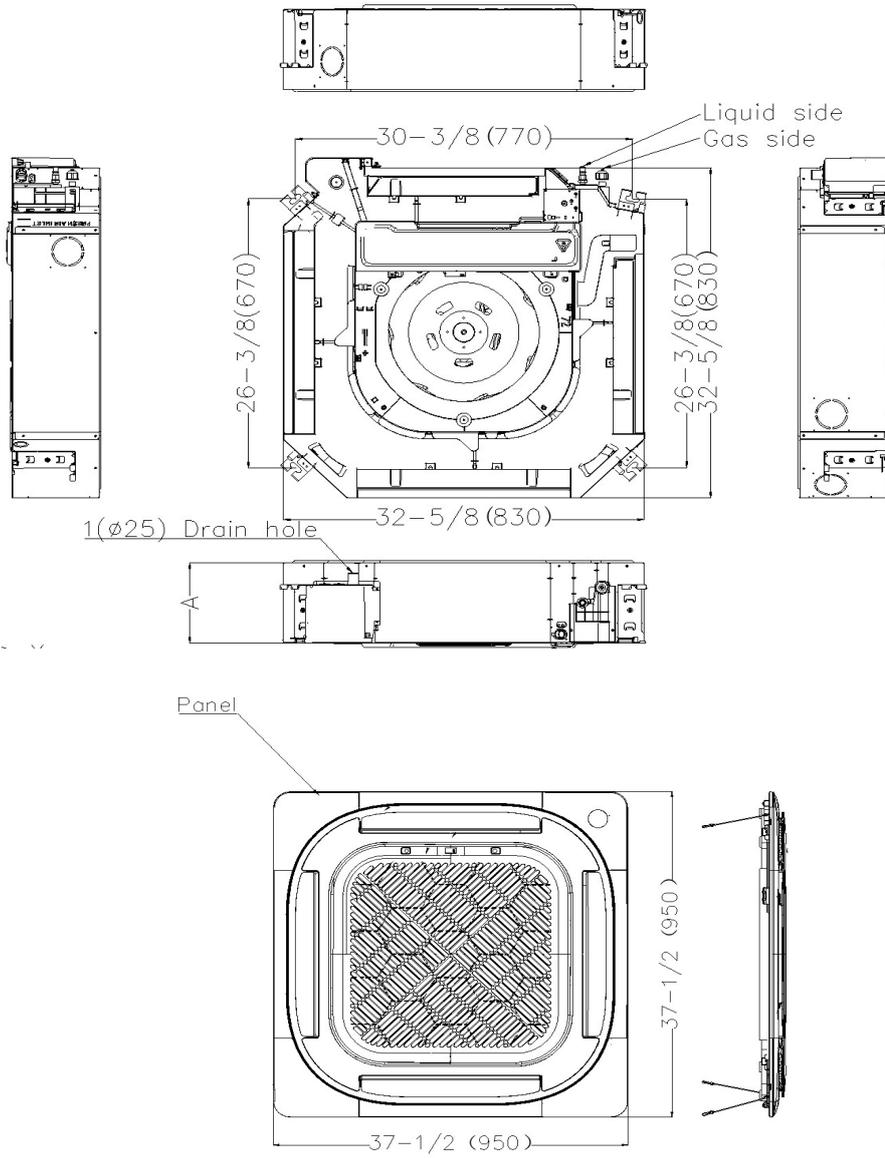
Power Supply	208/230V,60Hz,1Ph
System MCA	24.9
Connection Wiring	AWG 14/4
System MOCP	25.0
Compressor RLA	15.0
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	1,950 (960 ~ 2,300)
System Power Input @ Heating (W)	2,070 (695 ~2,490)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

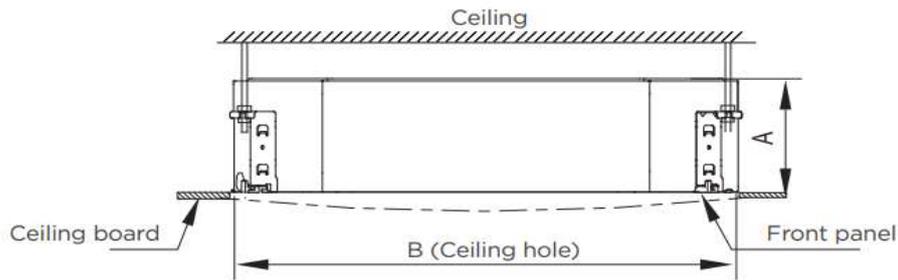
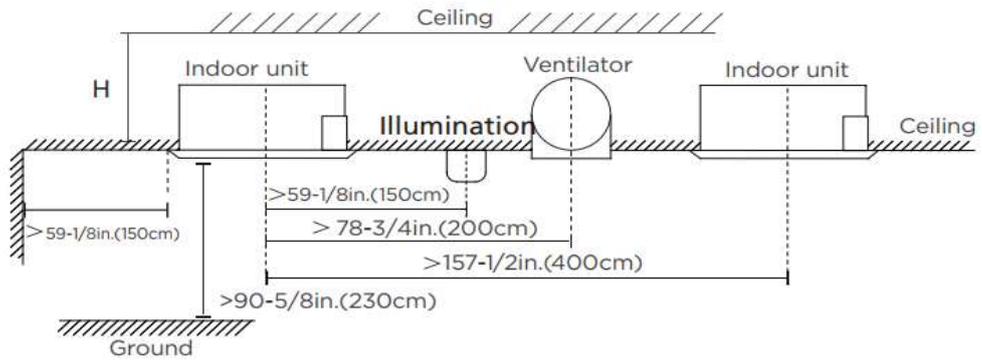
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	5/8" (15.9mm)
Max. Piping Length(ft/m)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	63 (1.80)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



Installation Instruction

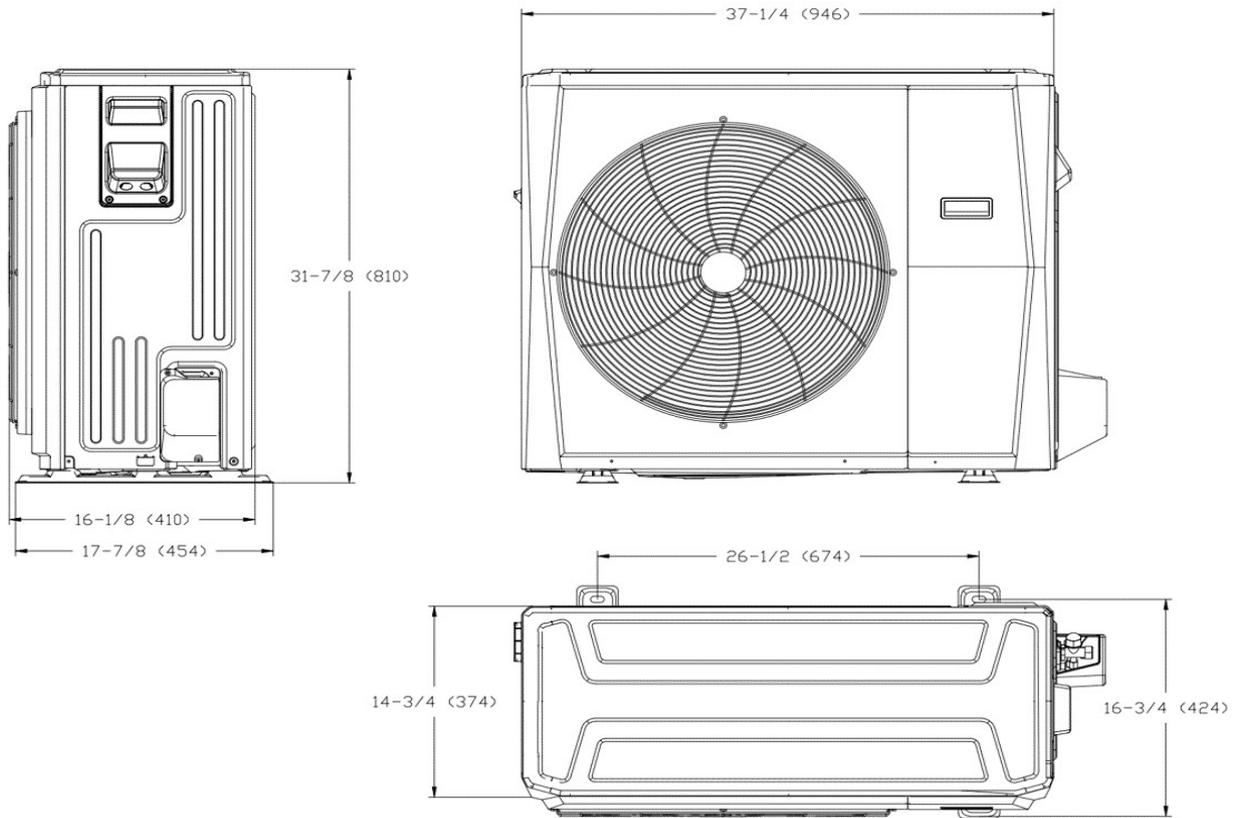


Distance from ceiling relative to height of indoor unit

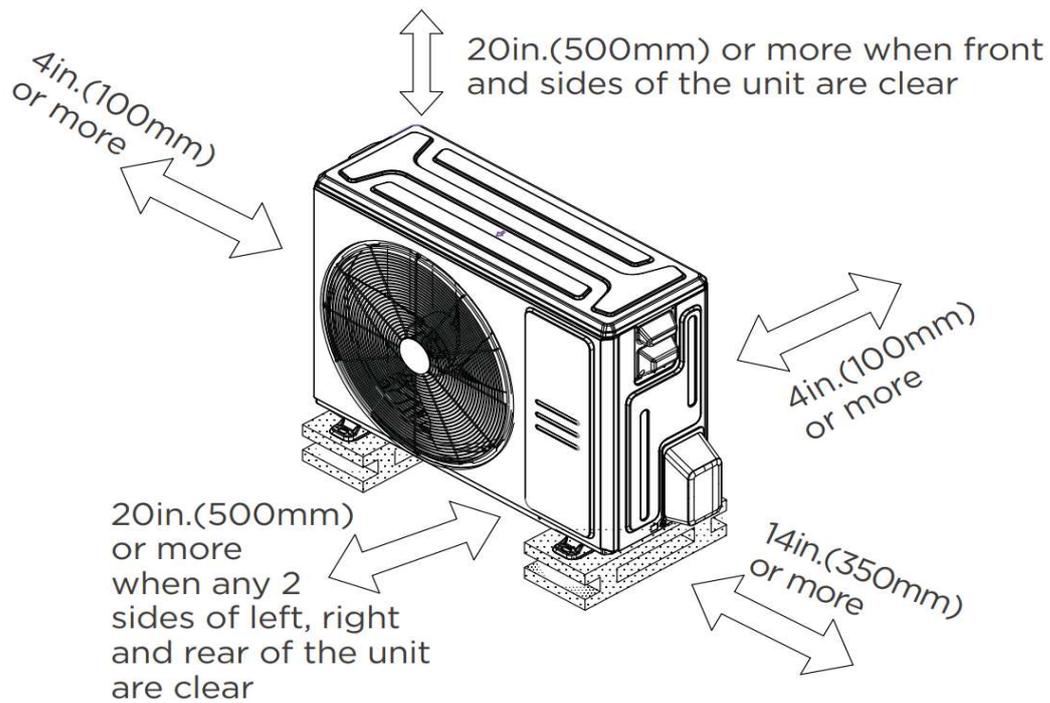
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4 in.(275mm)	23-5/8 in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	35-3/8 in.(900mm)
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

### 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.