

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Xtreme Heat Series
Model Number: MCDHU-H12B-2A/MO1HS-H12B-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)	418 / 365 / 306 / 194 / 147
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	46 / 44 / 41 / 28 / 26
Dimension (W×D×H)	inch 22-1/2 x 22-1/2 x 9-5/8
	mm 570 x 570 x 245
Package (W×D×H)	inch 28-1/8 x 25-1/4 x 11-5/8
	mm 715 x 640 x 295
Net/Gross Weight	lbs 35 / 42
	kg 16 / 19

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTN110D42UFZ
Refrigerant	R454B
Refrigerant Oil Charge(mL)	350
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1,472
Outdoor Noise Level (dBA)	57
Dimension (W×D×H)	inch 31-3/4 x 13 x 21-3/4
	mm 805 x 330 x 554
Package (W×D×H)	inch 36 x 14-5/8 x 24-1/2
	mm 915 x 370 x 615
Net/Gross Weight	lbs 73/79
	kg 33/35.7

EFFICIENCY

Cooling		Heating	
SEER2	22.2	HSPF2-4	11.6
EER2	12.5	COP	3.70

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	12,000
Min/Max Capacity	3,800~15,100
Moisture Removal(L/h)	1.45
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	12,000
1. @ 47°F Min/Max Capacity	5,300~16,200
2. @ 17°F Rated	10,000
3. @ 5°F Rated: Capacity / COP	11,500/2.00
3. @ 5°F Max: Capacity	11,500
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

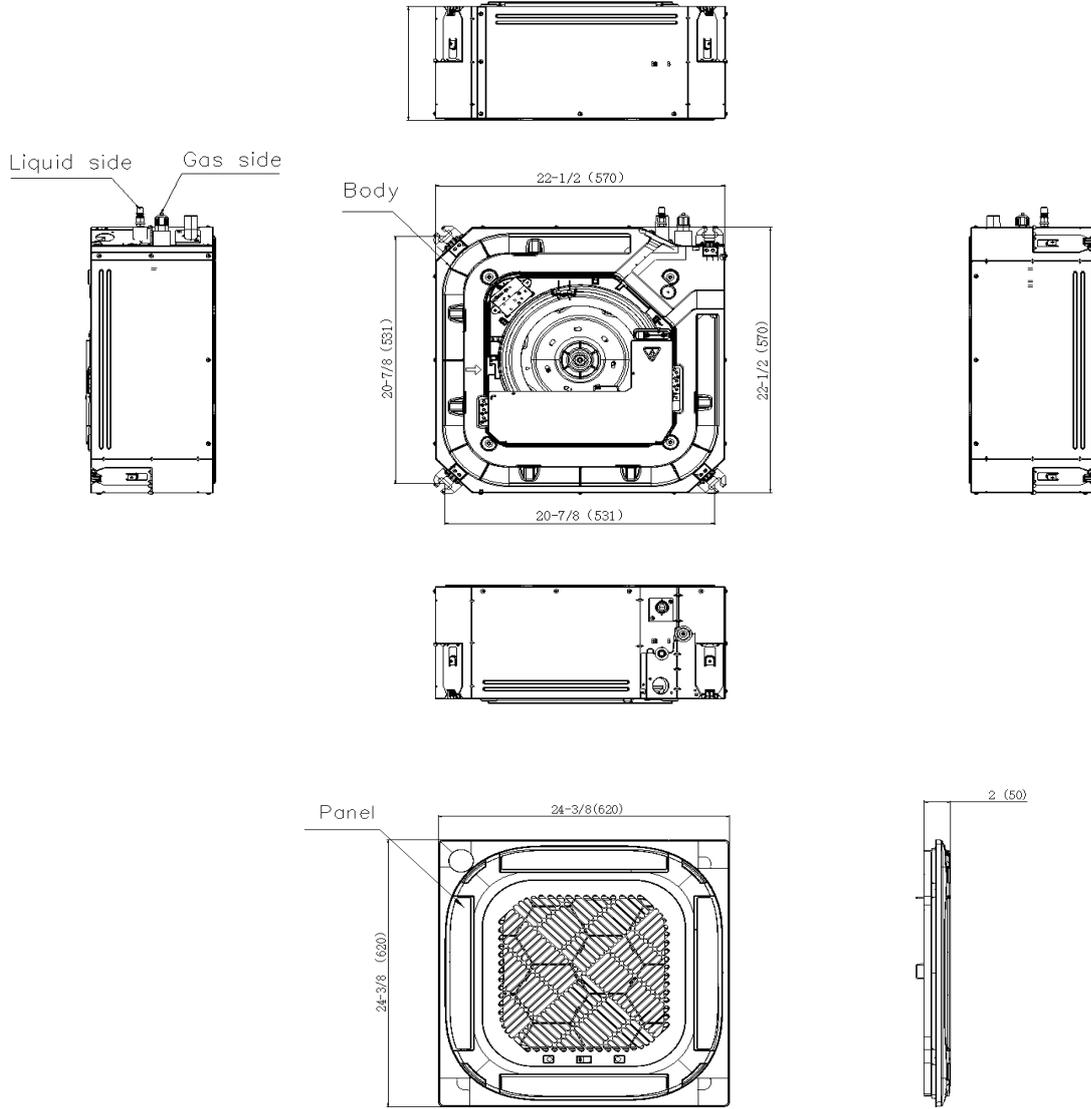
Power Supply	208/230V,60Hz,1Ph
System MCA	15.0
Connection Wiring	AWG 14/4
System MOCP	15.0
Compressor RLA	11.6
Outdoor Fan Motor RLA	0.5
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.9
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	945 (210 ~ 1,260)
System Power Input @ Heating (W)	951 (285 ~ 1,330)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

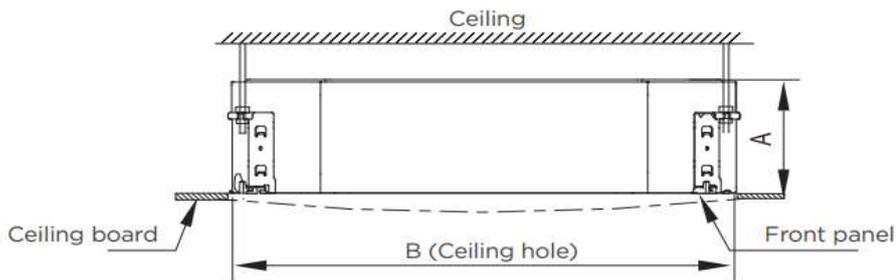
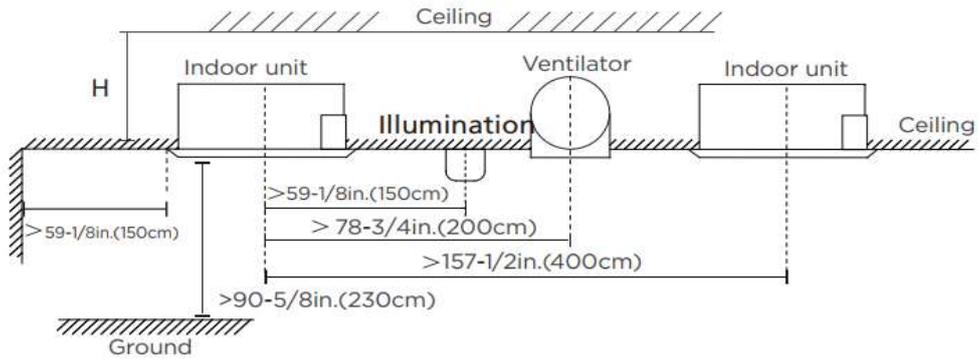
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV
Liquid Size	1/4" (6.35mm)
Gas Size	3/8" (9.52mm)
Max. Piping Length(ft/m)	82 (25)
Max. Height Difference(ft/m)	49 (15)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	35 (1.00)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.16 (15)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



Installation Instruction

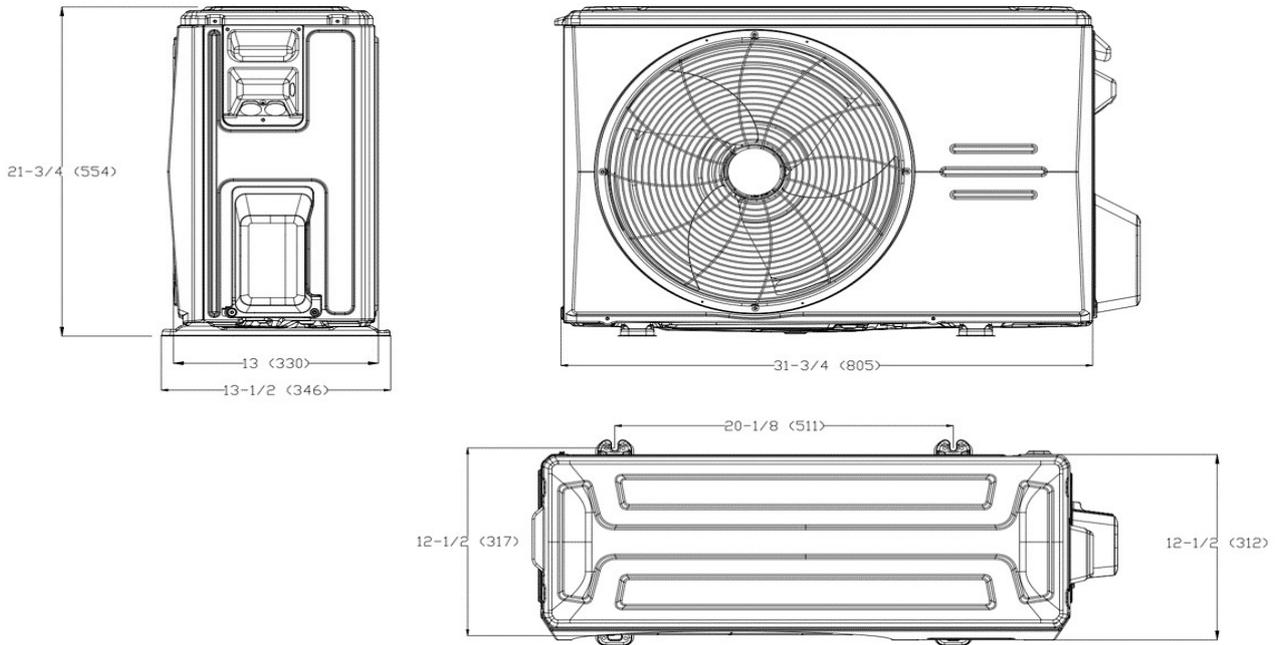


Distance from ceiling relative to height of indoor unit

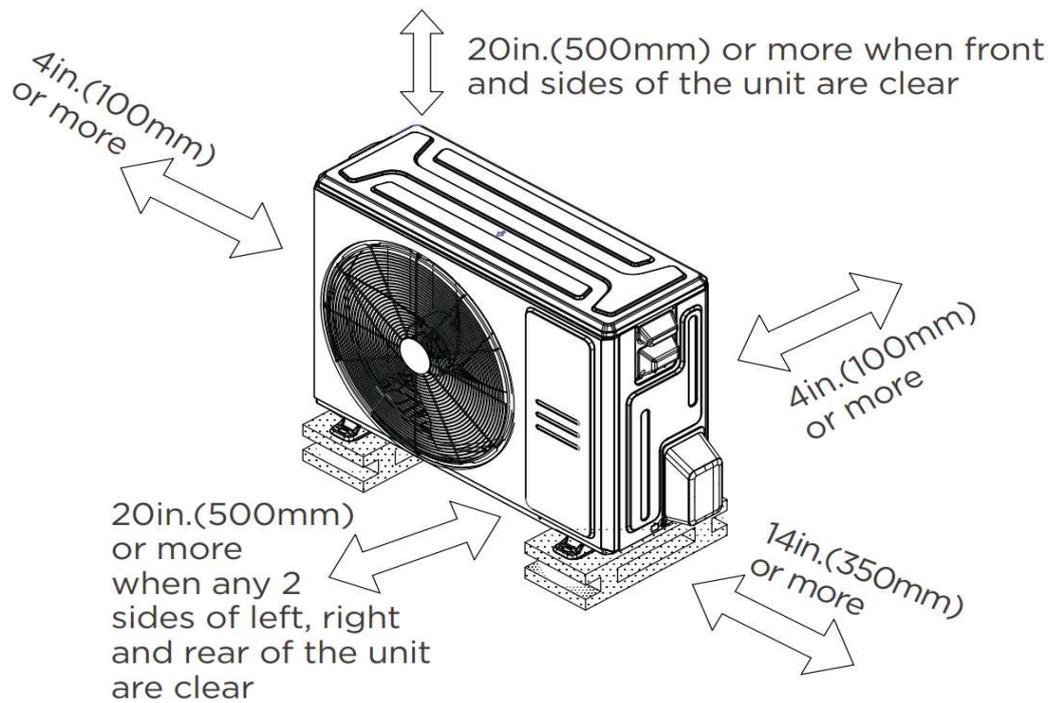
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	$>10\text{-}3/4\text{in.}(275\text{mm})$	23-5/8 in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	35-3/8 in.(900mm)
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

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.