R454b
Refrigerant

SUBMITTAL DATA SHEET

Series Name: Compact Round Flow Cassette Extreme Heat Series
Model Number: MCDHU-H12B-2A/MO1HS-H12B-2A

Compact Round Flow 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)		418 / 365 / 306 / 194 / 147
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		46 / 43.5 / 40.5 / 27.5 / 26
Dimension (W×D×H)	inch	22-1/2 x 22-1/2 x 9-5/8
	mm	570 × 570 × 245
Package (W×D×H)	inch	28-1/8 x 25-1/4 x 11-5/8
	mm	715 × 640 × 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 × 330 × 554
Package (W×D×H)	inch	36 x 14-5/8 x 24-1/2
	mm	915 × 370 × 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

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)	960 (210 ~ 1,260)
System Power Input @ Heating (W)	950 (290 ~ 1,330)
MCA: Min. circuit amps (A)	**MOCP**: Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

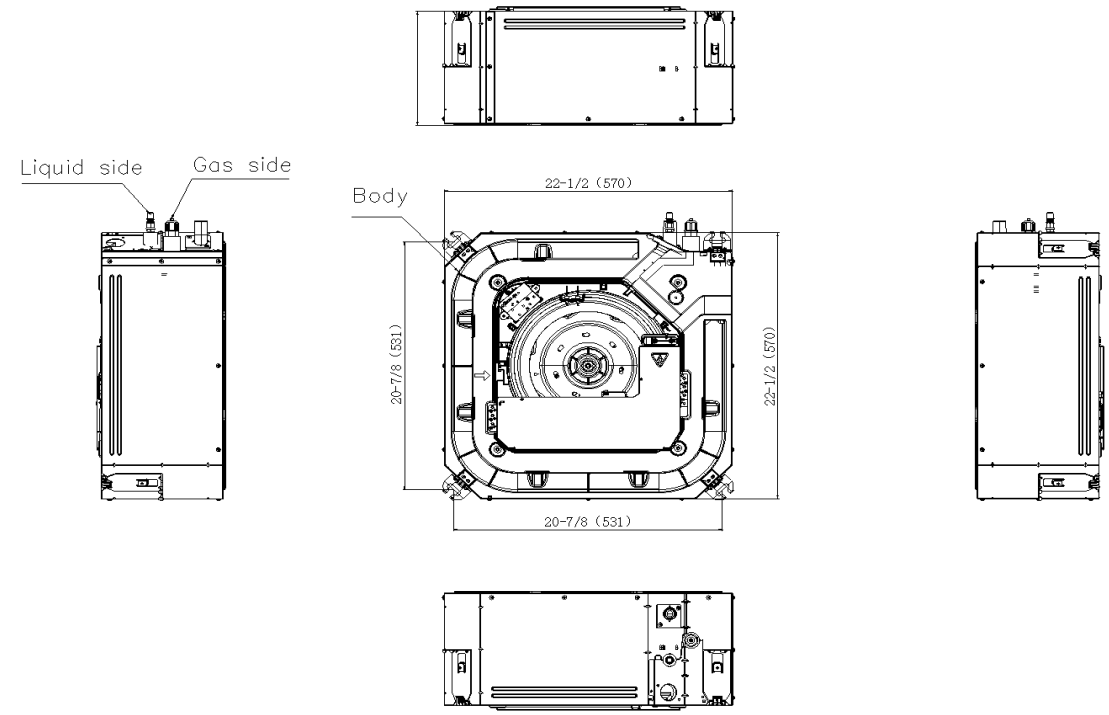
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	12,000
Min/Max Capacity	3,800 ~ 15,100
Moisture Removal(L/h)	1.45
Standard Operating Range(°F/°C)	-22 ~ 122 (-30 ~ 50)
Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

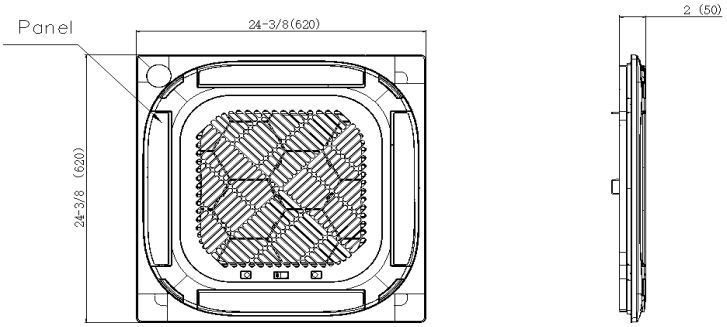
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	12,000
1. @ 47°F Min/Max Capacity	5,300 ~ 16,300
2. @ 17°F Rated	10,000
3. @ 5°F Rated: Capacity / COP	11,500/1.99
3. @ 5°F Max: Capacity	11,500
Standard Operating Range(°F/°C)	-22 ~ 75 (-30 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 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

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)

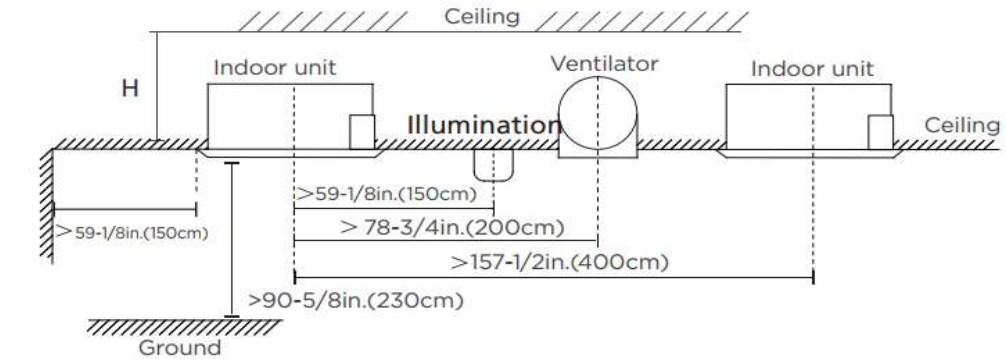


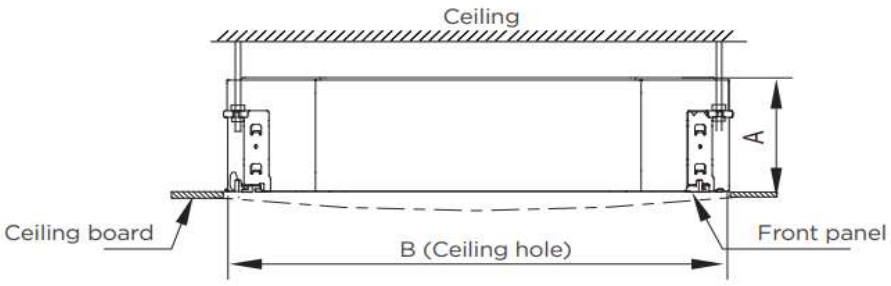


IMPORTANT NOTICE

* This compact round flow cassette unit requires the panel for complete installation. The unit is incomplete without the panel installed.
* Panel is sold separately.

Installation Instruction



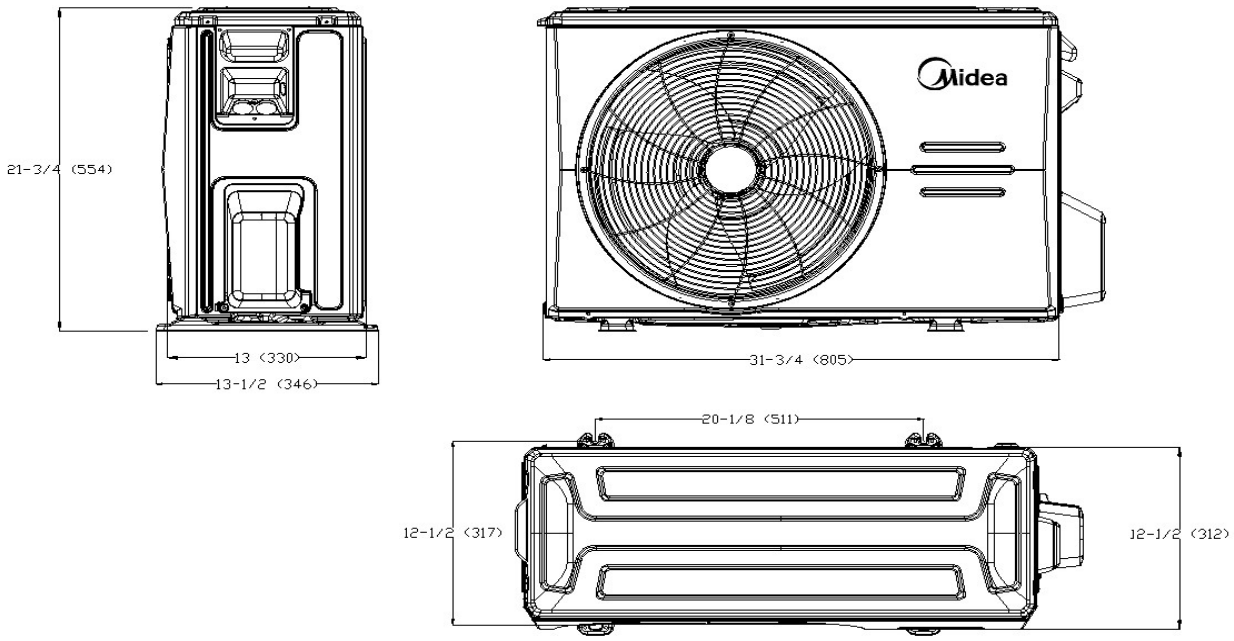


Distance from ceiling relative to height of indoor unit

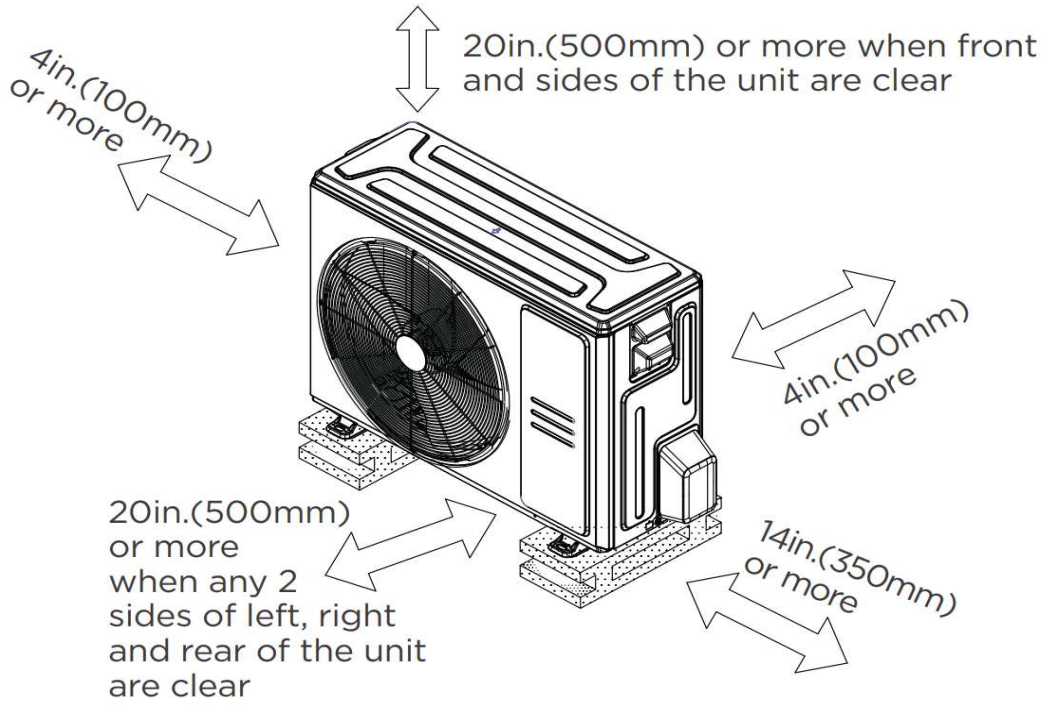
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4in.(275mm)	23-5/8in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	35-3/8 in.(900mm)
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction



FEATURES

- 360° Air Flow
- Built-in remote on-off and alarm ports
- Built-in Refrigerant Detection Sensor
- Built-in Humidity Sensor: Temperature & Humidity Control
- Built-in Drain Pump
- 1~100% fan speed setting
- Wi-Fi Capability: enabled through a wired controller that includes built-in Wi-Fi
- Multiple control options available:
  - ○ Wireless remote controller RG10 (Built-In)
  - ○ Two-way communication programmable wired controller with built-in Wi-Fi:120N(X6W)
  - ○ Midea Smart Thermostat
  - ○ Third-Party 24V Thermostat*
- Standard graphene fins, a standard feature of the outdoor unit, deliver superior corrosion resistance
- The outdoor unit comes standard with chassis and crankshaft electric heating.

*24V interface is required.