R454b
Refrigerant

SUBMITTAL DATA SHEET

Series Name: Compact Round Flow Cassette Advanced Heat Series
Model Number: MCDHU-H18B-2A/MO1ES-H18B-2A

Midea

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)		447 / 389 / 318 / 194 / 147
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		48 / 44 / 41 / 28.5 / 24.5
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		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,766
Outdoor Noise Level (dBA)		57.5
Dimension (W×D×H)	inch	35 x 13-1/2 x 26-1/2
	mm	890 × 342 × 673
Package (W×D×H)	inch	39-1/8 x 15-5/8 x 29-1/8
	mm	995 × 398 × 740
Net/Gross Weight	lbs	93 / 100
	kg	42.0 / 45.5

EFFICIENCY			
Cooling		Heating	
SEER2	20.7	HSPF2-4	11.4
EER2	12.5	COP	3.36

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	18.0
Connection Wiring	AWG 14/4
System MOCP	20.0
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	1,344 (490 ~ 1,620)
System Power Input @ Heating (W)	1,570 (390 ~ 1,930)
MCA: Min. circuit amps (A)	**MOCP**: Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

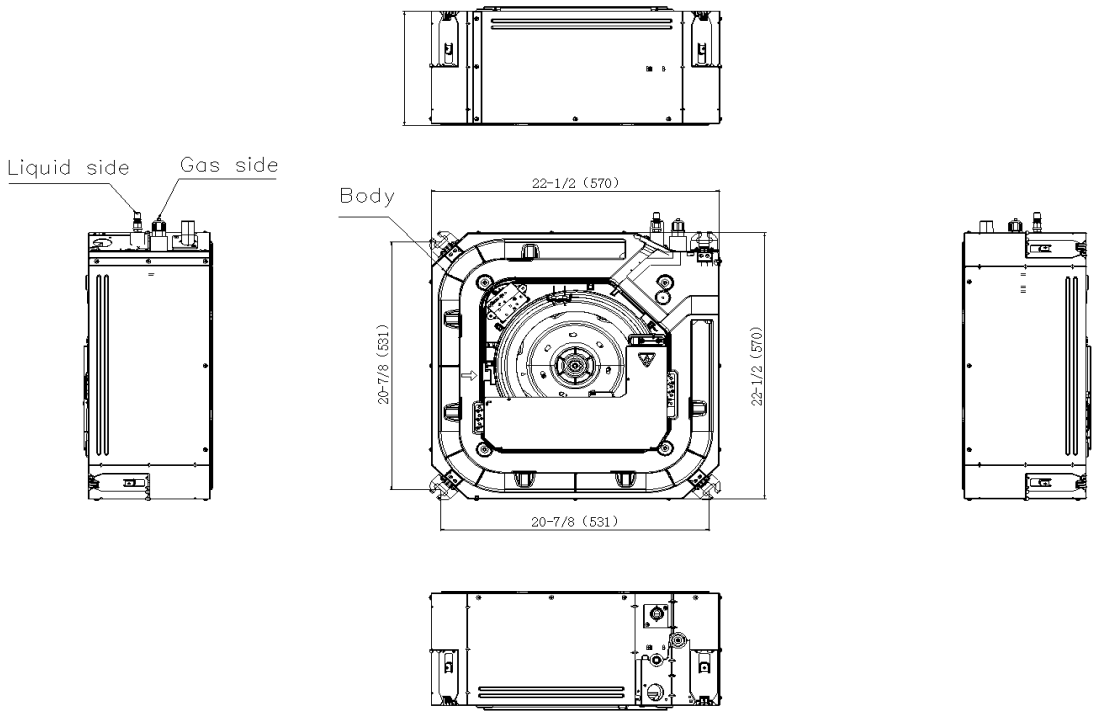
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	16,800
Min/Max Capacity	5,300 ~ 17,800
Moisture Removal(L/h)	2.05
Standard Operating Range(°F/°C)	-13~122 (-25 ~ 50)
Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

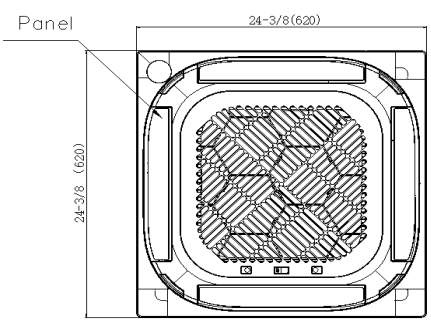
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	18,000
1. @ 47°F Min/Max Capacity	7,100 ~ 21,500
2. @ 17°F Rated	13,900
3. @ 5°F Rated: Capacity / COP	12,800/2.19
3. @ 5°F Max: Capacity	12,800
Standard Operating Range(°F/°C)	-13~75 (-25 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 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

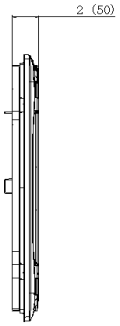
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	1/4" (6.35mm)
Gas Size	1/2" (12.7mm)
Max. Piping Length(ft/m)	98.4 (30)
Max. Height Difference(ft/m)	66 (20)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	48 (1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m	0.16 (15)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



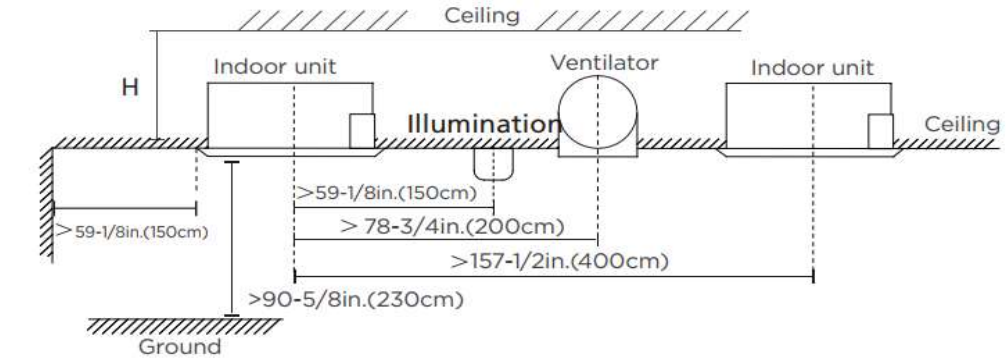


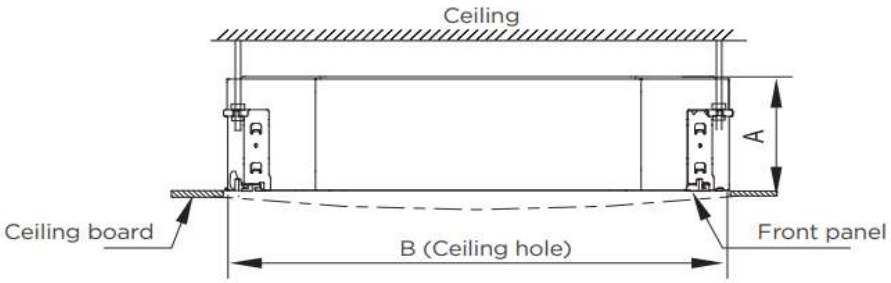


IMPORTANT NOTICE

* 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



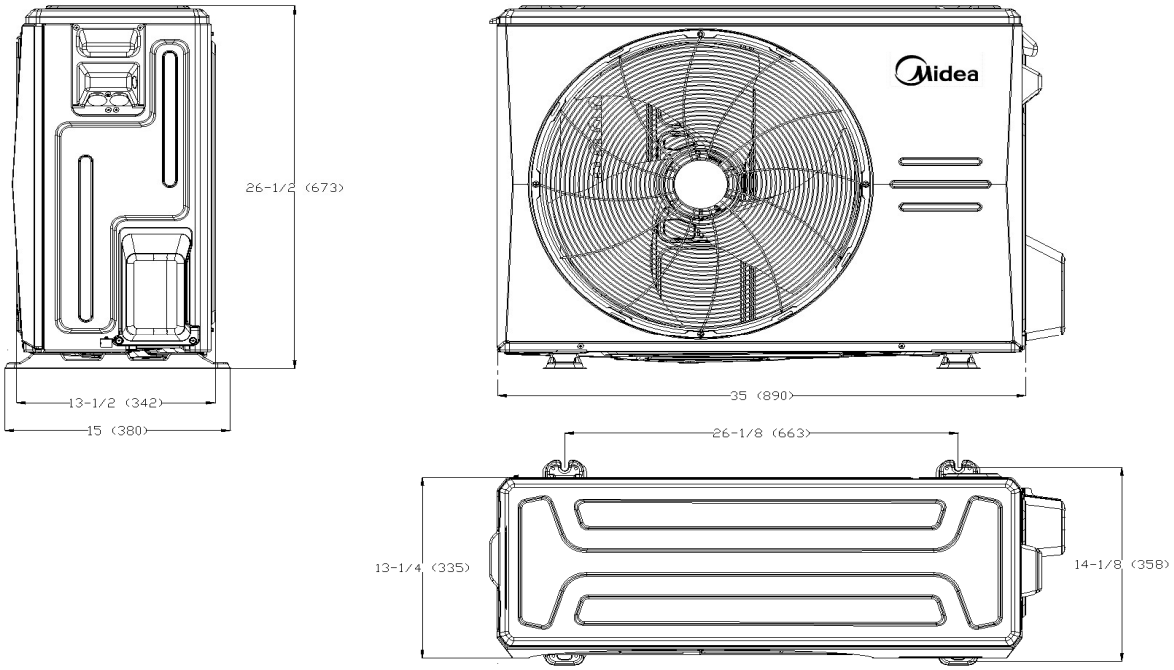


Distance from ceiling relative to height of indoor unit

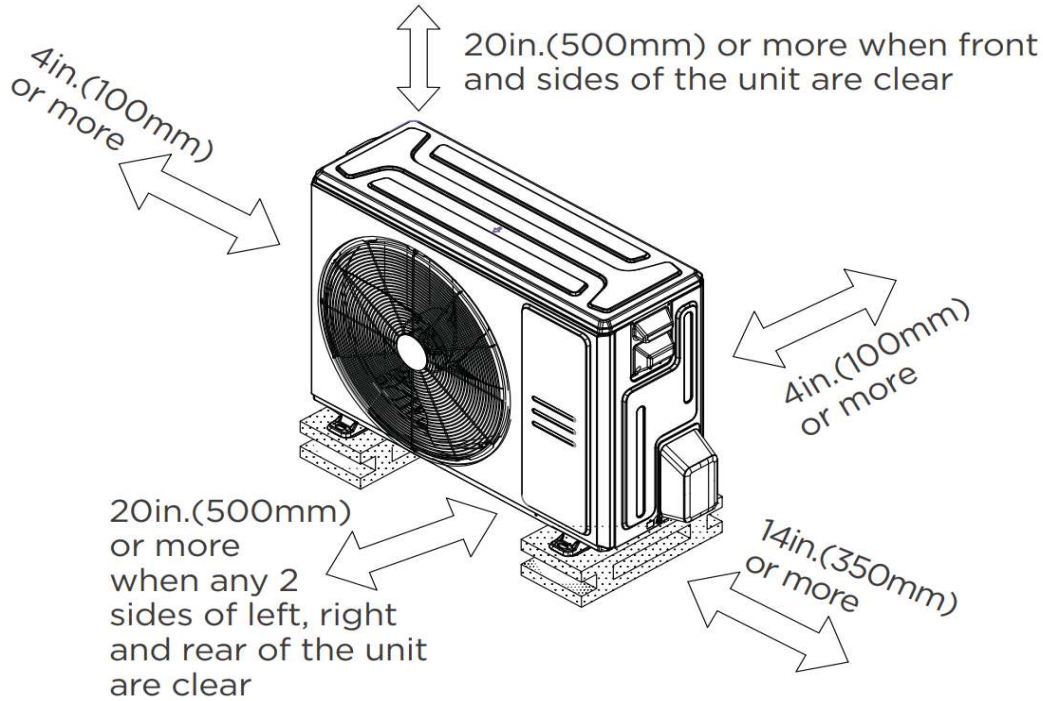
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4in.(275mm)	23-5/8in.(600mm)
24K	8 in.(205mm)	9 in.(230mm)	35-3/8 in.(900mm)
36K	9-5/8 in.(245mm)	10-3/4 in.(271mm)	
48K	11-1/4 in.(287mm)	12-1/4 in.(313mm)	

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.