R454b
Refrigerant

SUBMITTAL DATA SHEET

Series Name: 4-Way Cassette Energy Star Series
Model Number: MCDHU-H12B-2A/ MO1ES-H12B-2A

Midea

4-Way 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 / 42 / 39 / 27 / 24
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		KSK103D33UEZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		310
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,236
Outdoor Noise Level (dBA)		54.5
Dimension (W×D×H)	**inch**	30-1/8 x 11-7/8 x 21-7/8
	mm	765 × 303 × 555
Package (W×D×H)	**inch**	34-7/8 x 13-1/4 x 24
	mm	887 × 337 × 610
Net/Gross Weight	**lbs**	63 / 68
	kg	28.2 / 30.7

EFFICIENCY			
Cooling		**Heating**	
SEER2	21.1	**HSPF2-4**	10.4
EER2	12.5	**COP**	3.55

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	12.0
Connection Wiring	AWG 14/4
System MOCP	15.0
Compressor RLA	7.3
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.9
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	968 (220 ~ 1,160)
System Power Input @ Heating (W)	991 (270 ~1,200)
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	3,700~14,000
Moisture Removal(L/h)	1.10
Standard Operating Range(°F/℃)	-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	12,000
1. @ 47°F Min/Max Capacity	4,700~15,000

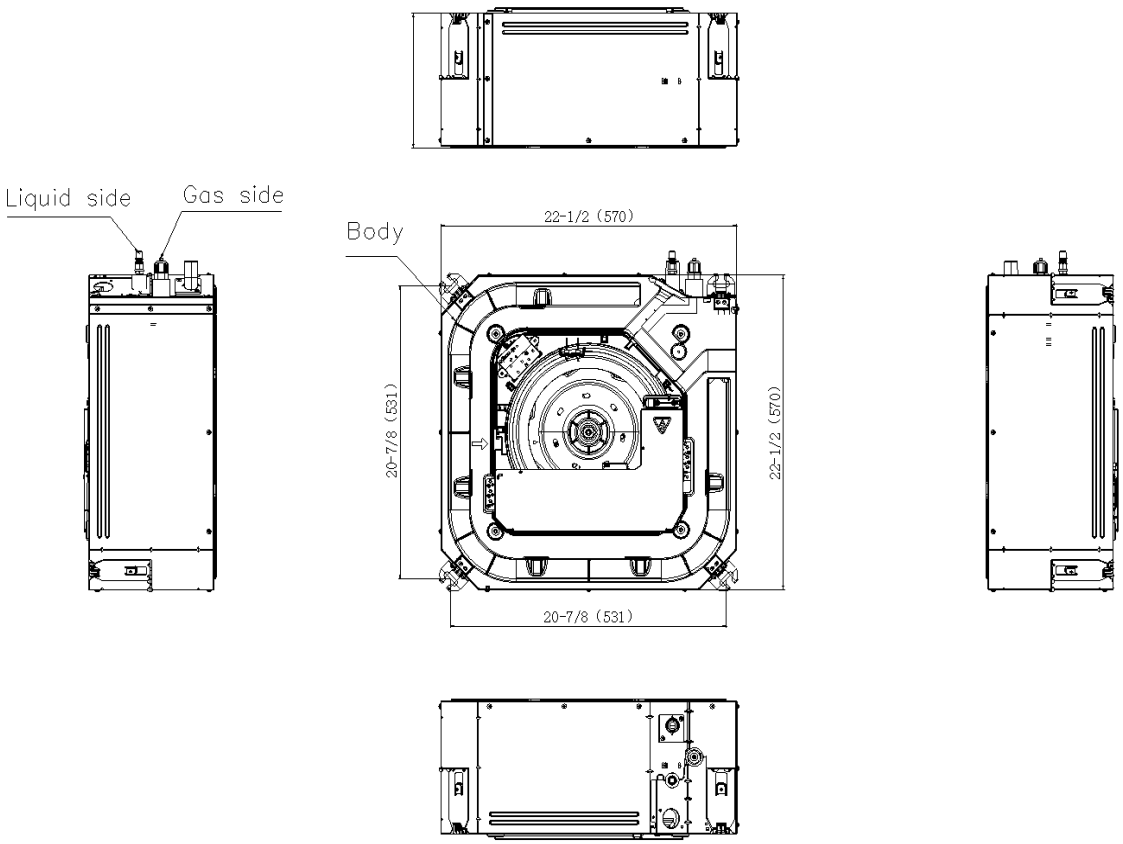
PIPING	
Throttle type(Indoor)	N/A

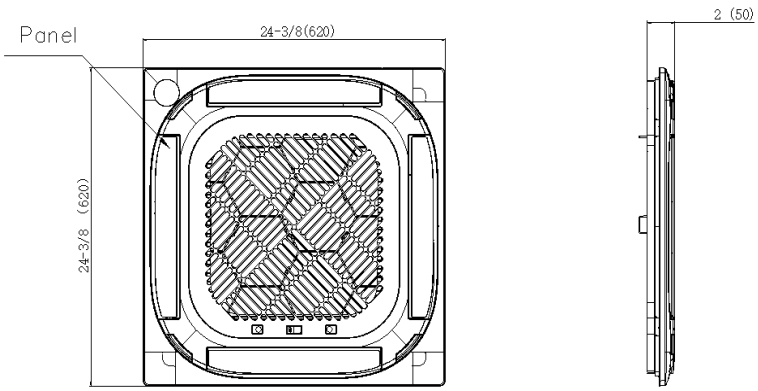
2. @ 17℉ Rated	8,500
3. @ 5℉ Rated: Capacity / COP	8,400/2.4
3. @ 5℉ Max: Capacity	8,400
Standard Operating Range(℉/℃)	-13~75 (-25～24)
1. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

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)	32 (0.92)
dditional Charge of Refrigerant((oz/ft)/(g/m	0.16 (15)
Connection Method	Flared

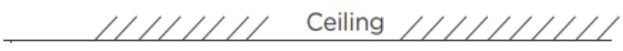
Indoor Unit Dimension

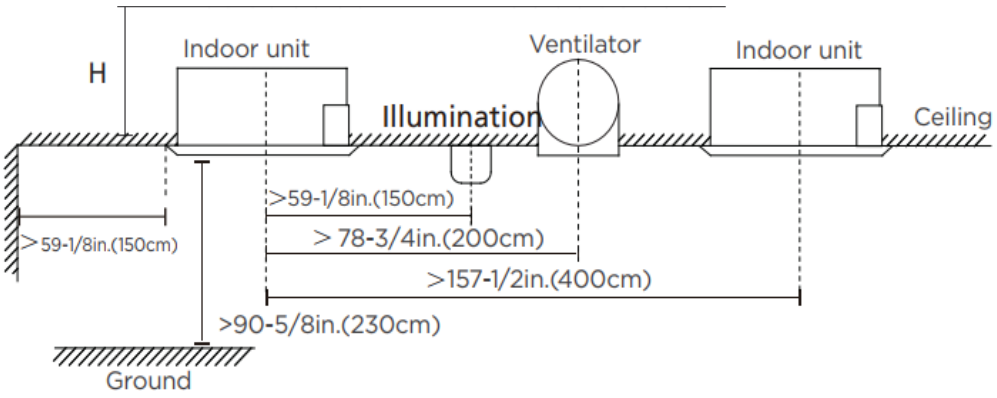
Unit: inch (mm)

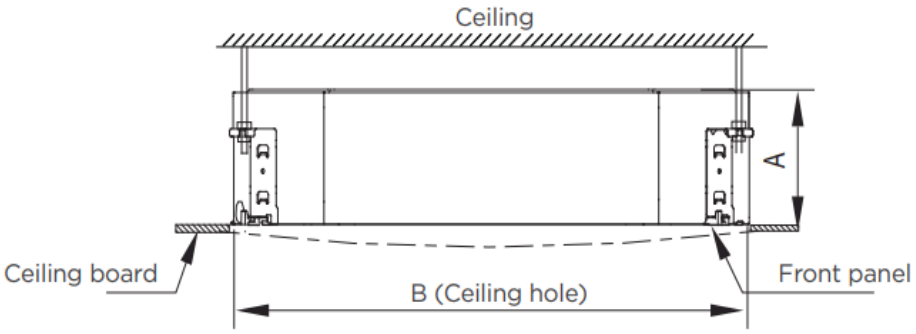




Installation Instruction





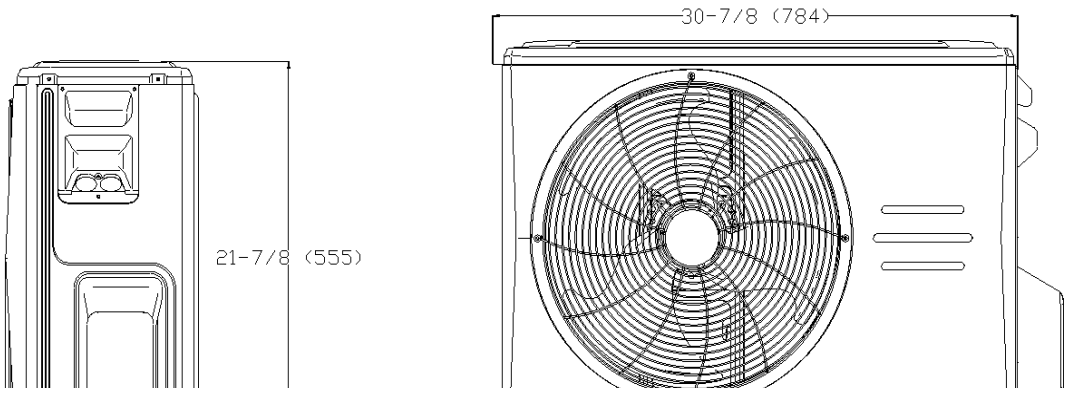


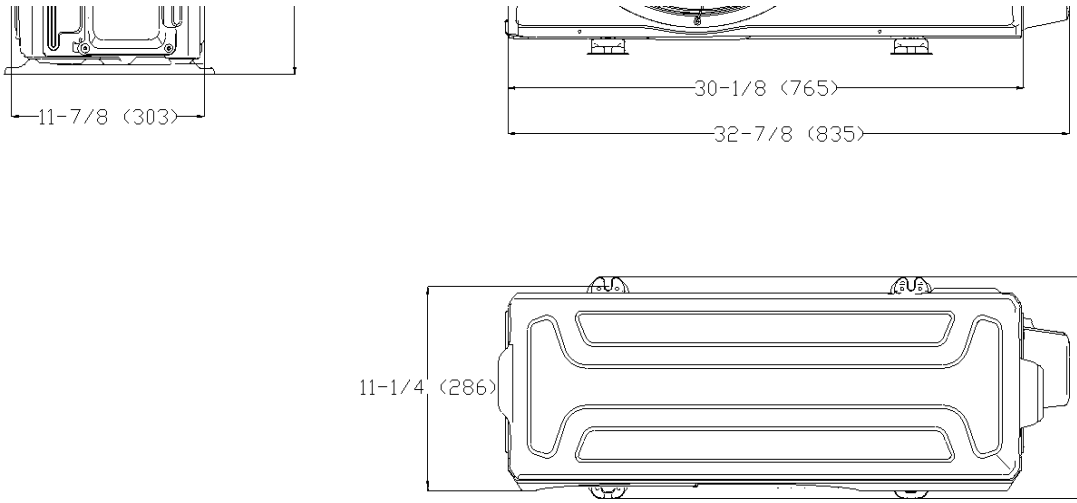
Distance from ceiling relative to height of indoor unit

MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in.(245mm)	>10-3/4in.(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

