

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Energy Star Series  
Model Number: MCDHU-H18B-2A/MO1E5-H18B-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)	447 / 389 / 318 / 194 / 147
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	48 / 44 / 41 / 29 / 25
Dimension (WxDxH)	inch 22-1/2 x 22-1/2 x 9-5/8
	mm 570 x 570 x 245
Package (WxDxH)	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	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 (WxDxH)	inch 35 x 13-1/2 x 26-1/2
	mm 890 x 342 x 673
Package (WxDxH)	inch 39-1/8 x 15-5/8 x 29-1/8
	mm 995 x 398 x 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

### 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	12,800/2.2
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

### ELECTRICAL

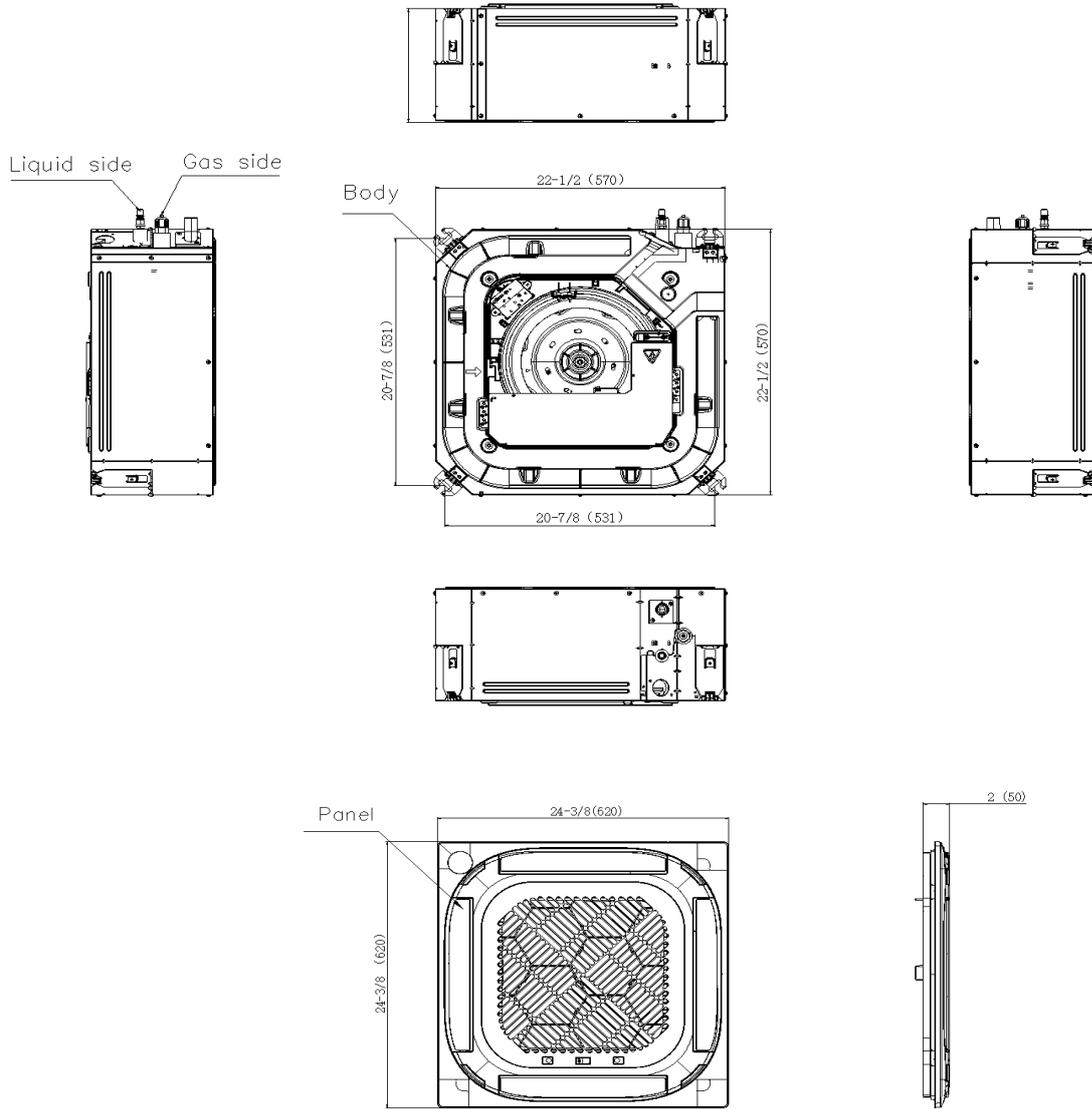
Power Supply	208/230V,60Hz,1Ph
System MCA	18.0
Connection Wiring	AWG 14/4
System MOCP	20.0
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	45
System Power Input @ Cooling (W)	1,344 (490 ~ 1,620)
System Power Input @ Heating (W)	1,570 (395 ~1,930)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

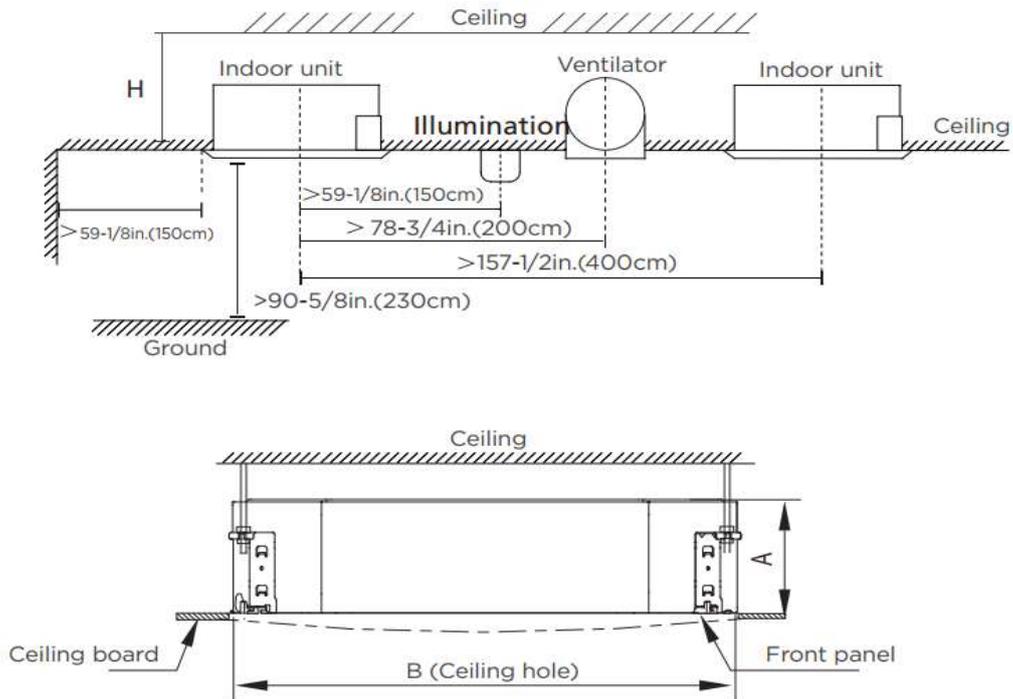
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	1/4" (6.35mm)
Gas Size	1/2" (12.7mm)
Max. Piping Length(ft/m)	98.4 (30)
Max. Height Difference(ft/m)	66 (20)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	48 (1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m)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

Indoor Unit Dimension

inch (mm)



### Installation Instruction

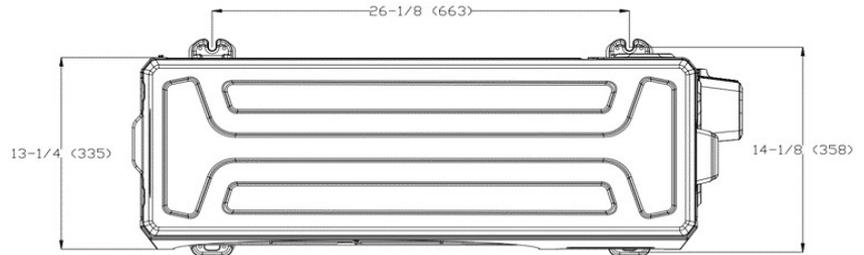
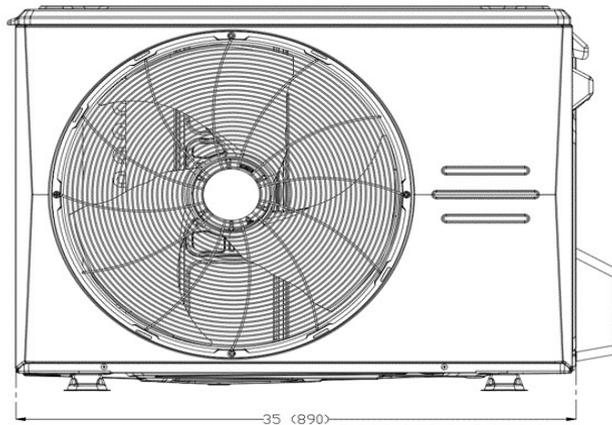
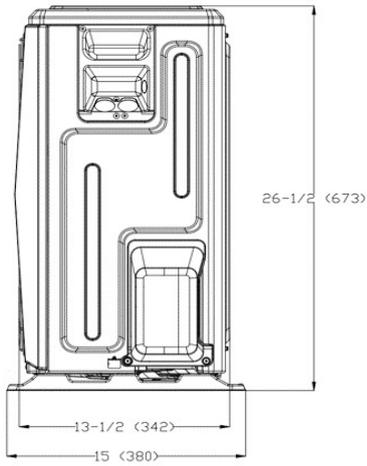


**Distance from ceiling relative to height of indoor unit**

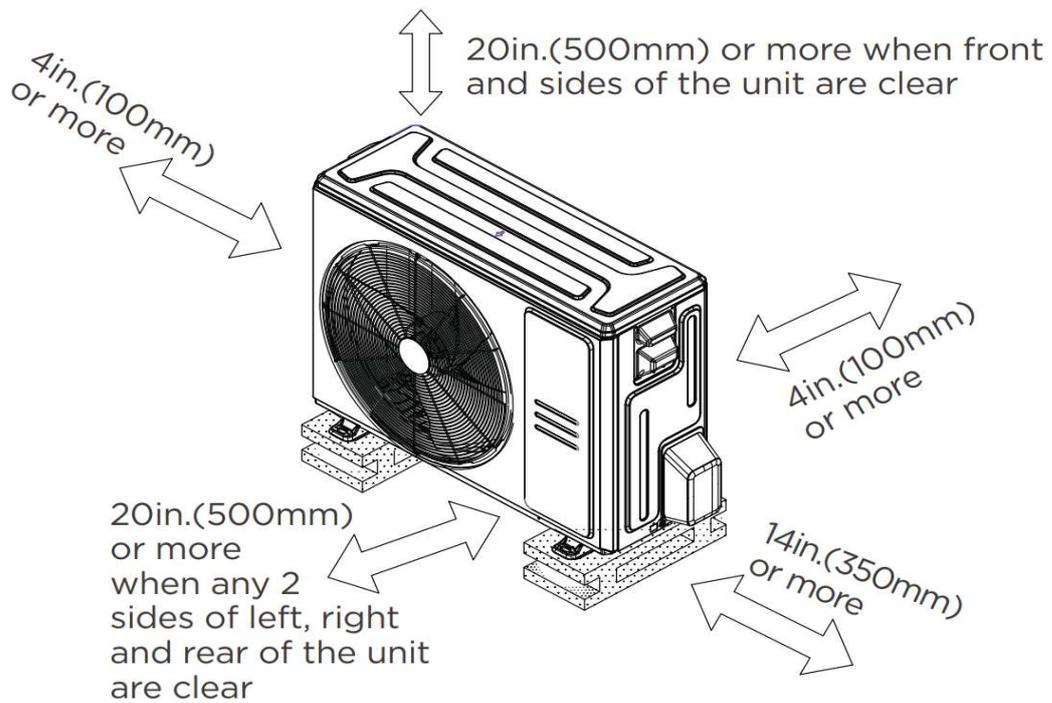
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in. (245mm)	>10-3/4 in. (275mm)	23-5/8 in. (600mm)
24K	8 in. (205mm)	9 in. (230mm)	35-3/8 in. (900mm)
36K	9-5/8 in. (245mm)	10-3/4 in. (271mm)	
48K	11-1/4 in. (287mm)	12-1/4 in. (313mm)	

### 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.