

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: 4-Way Cassette Xtreme Heat Series  
Model Number: MCDHS-H36B-2A/MO1HU-H36B-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)	1042 / 948 / 854 / 753 / 659
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	52 / 52 / 48 / 40 / 38
Dimension (W×D×H)	inch 32-5/8 x 32-5/8 x 9-5/8
	mm 830 × 830 × 245
Package (W×D×H)	inch 35-7/8 x 35-7/8 x 11-3/8
	mm 910 × 910 × 290
Net/Gross Weight	lbs 59 / 71
	kg 26.9 / 32.4

### OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY
Compressor Model	EKPQ420D1UMUA
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,460
Refrigerant Oil	VG75
Outdoor Air Flow (Max) (CFM)	3,002
Outdoor Noise Level (dBA)	64.5
Dimension (W×D×H)	inch 38-1/2 x 16-3/8 x 38-3/8
	mm 980 × 415 × 975
Package (W×D×H)	inch 45-1/8 x 19-5/8 x 42-1/2
	mm 1145 × 500 × 1080
Net/Gross Weight	lbs 207 / 237
	kg 93.7/107.7

### EFFICIENCY

Cooling		Heating	
SEER2	21.2	HSPF2-4	10.6
EER2	12.0	COP	3.43

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	36,600
Min/Max Capacity	4,900~38,000
Moisture Removal(L/h)	4.30
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	37,000
1. @ 47°F Min/Max Capacity	11,400~44,600
2. @ 17°F Rated	30,600
3. @ 5°F Rated: Capacity / COP	37,000/1.95
3. @ 5°F Max: Capacity	37,000
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

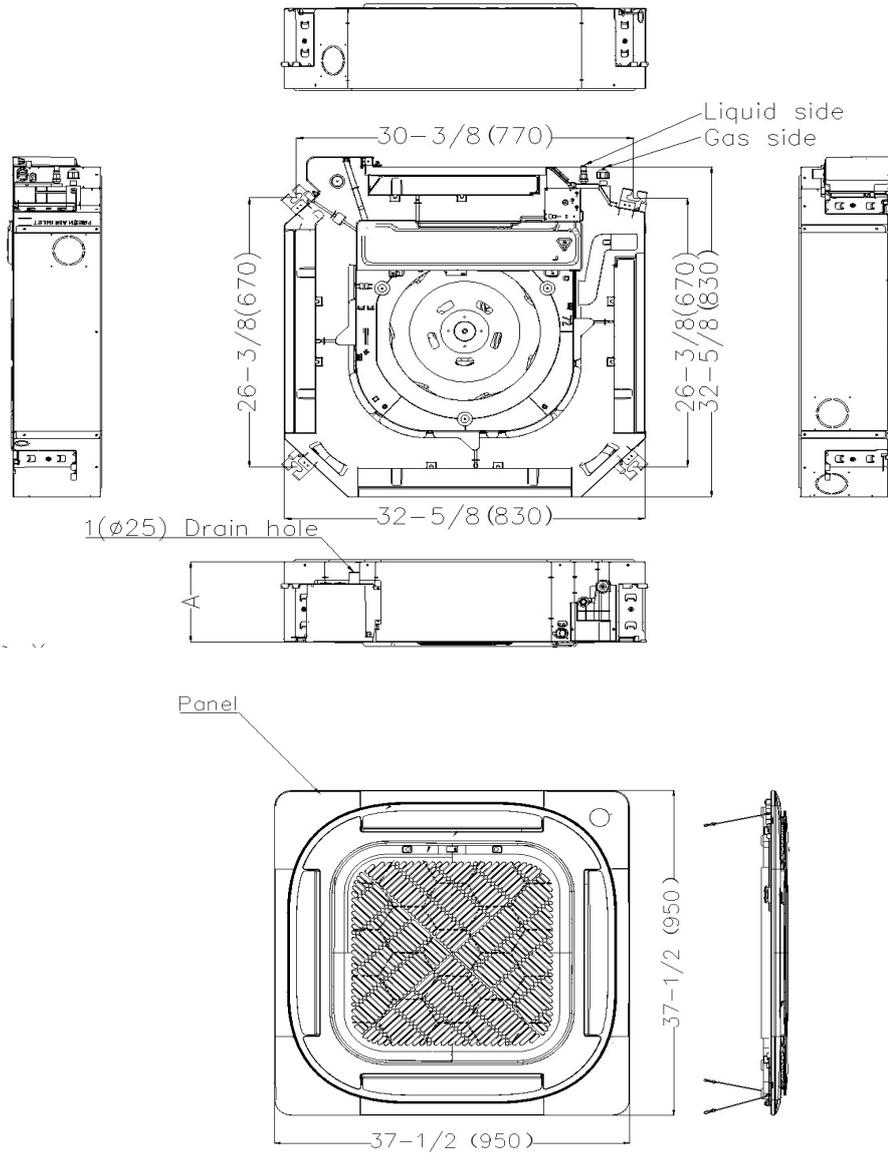
Power Supply	208/230V,60Hz,1Ph
System MCA	38.0
Communication wiring	AWG 20/2
System MOCP	40.0
Compressor RLA	24.5
Outdoor Fan Motor RLA	2.1
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	125
System Power Input @ Cooling (W)	3,042 (580 ~ 3,480)
System Power Input @ Heating (W)	3,161 (740 ~4,160)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

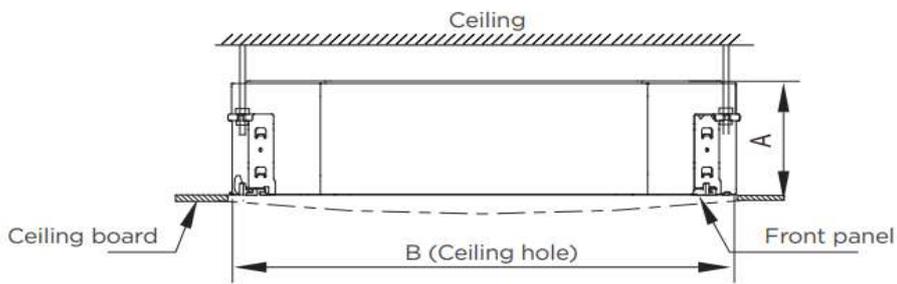
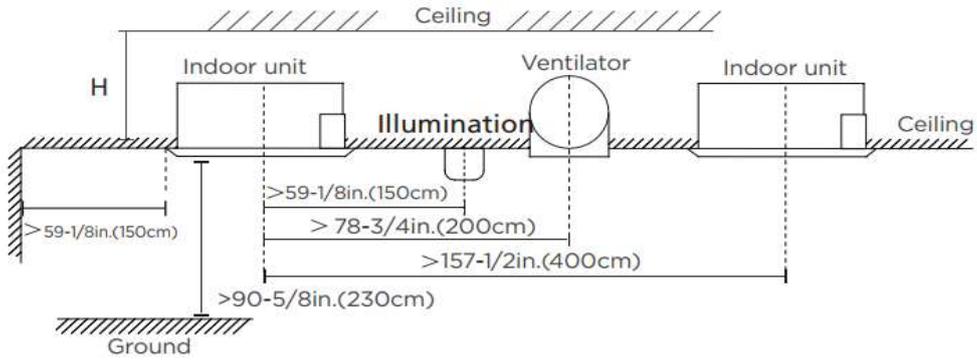
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	127 (3.6)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

Indoor Unit Dimension

Unit: inch (mm)



Installation Instruction

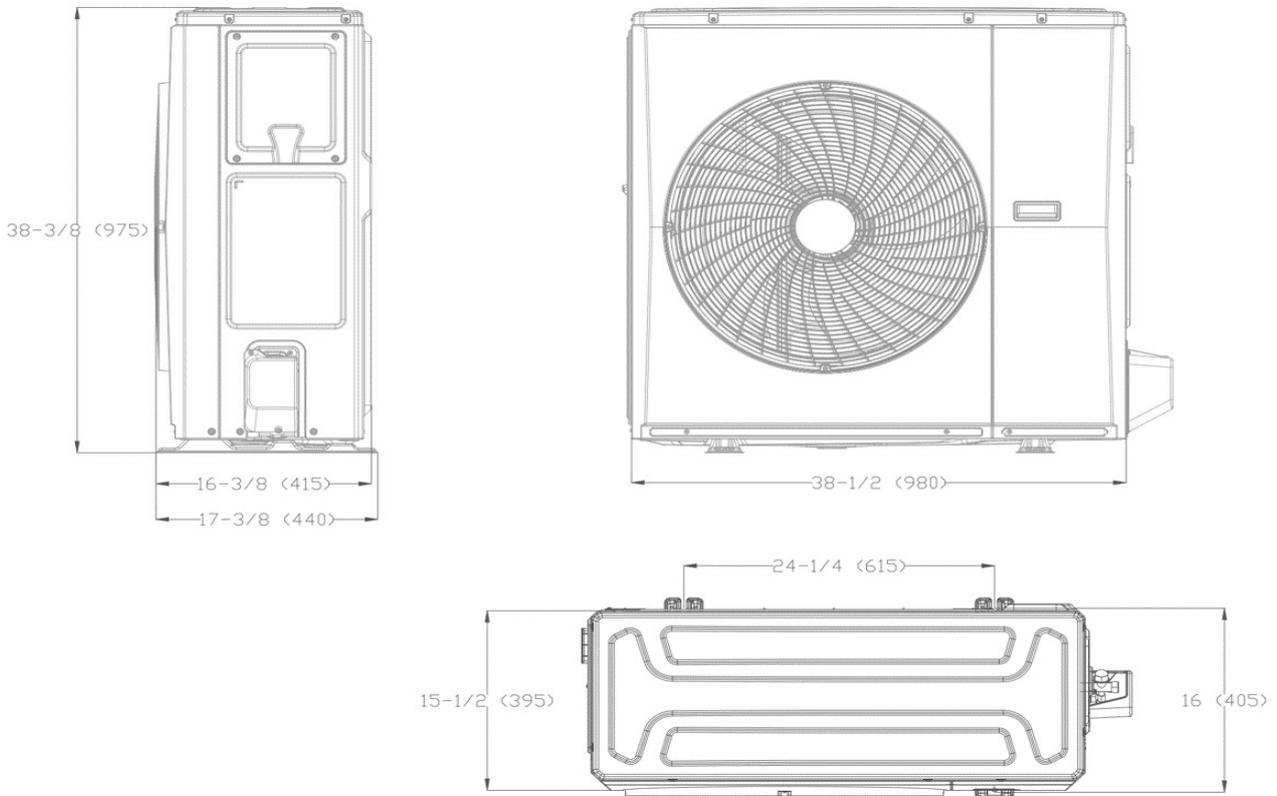


Distance from ceiling relative to height of indoor unit

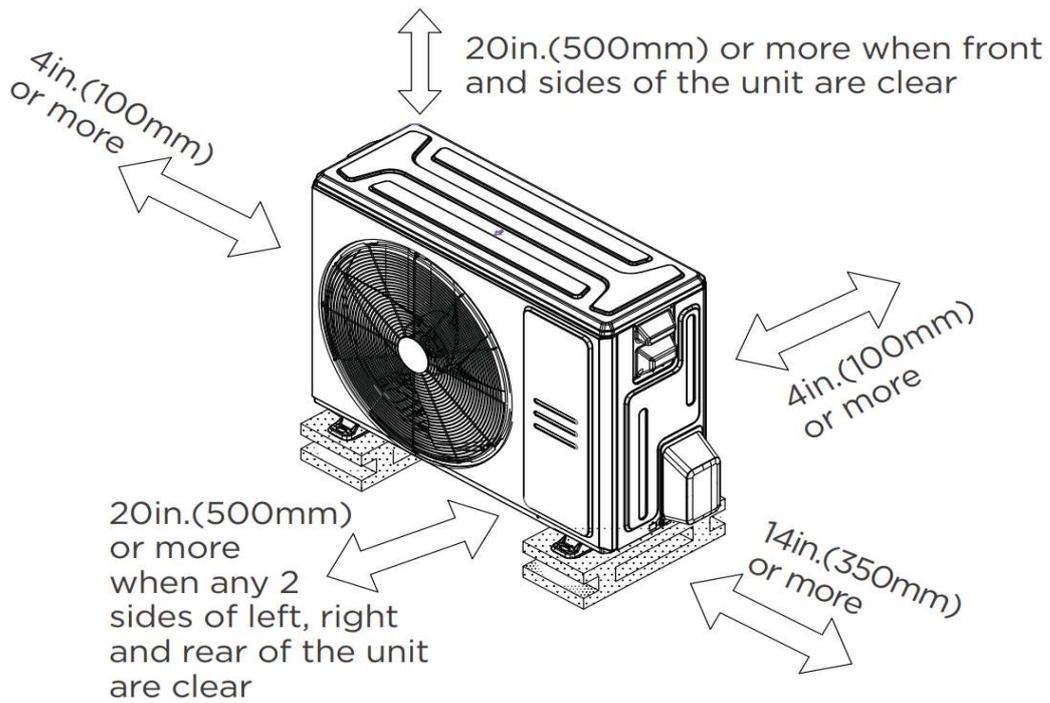
MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9-5/8 in. (245mm)	> 10-3/4 in. (275mm)	23-5/8 in. (600mm)
24K	8 in. (205mm)	9 in. (230mm)	35-3/8 in. (900mm)
36K	9-5/8 in. (245mm)	10-3/4 in. (271mm)	
48K	11-1/4 in. (287mm)	12-1/4 in. (313mm)	

### 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.