

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: One Way Cassette Xtreme Heat Series
Model Number: [MCAHU-H12B-2A](#) / [MO1HS-H12B-2A](#)

One 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)	353 / 312 / 283 / 247 / 177	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	41 / 41 / 37 / 33 / 24	
Dimension (W×D×H)	inch	50-1/4 x 13-1/4 x 9
	mm	1278 × 335 × 228
Package (W×D×H)	inch	57-5/8 x 22-1/2 x 22-5/8
	mm	1463 × 571 × 575
Net/Gross Weight	lbs	45 / 83
	kg	20.5 / 37.6

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)	56	
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 24-1/4
	mm	915 × 370 × 615
Net/Gross Weight	lbs	73 / 79
	kg	33 / 35.7

EFFICIENCY

Cooling		Heating	
SEER2	23.0	HSPF2-4	10.0
EER2	13	COP	3.56

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	12,000
Min/Max Capacity	4,000~13,900
Moisture Removal(L/h)	1.69
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	12,500
1. @ 47°F Min/Max Capacity	4,600~15,200
2. @ 17°F Rated	9,600
3. @ 5°F Rated: Capacity / COP	11,500 / 2
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

ELECTRICAL

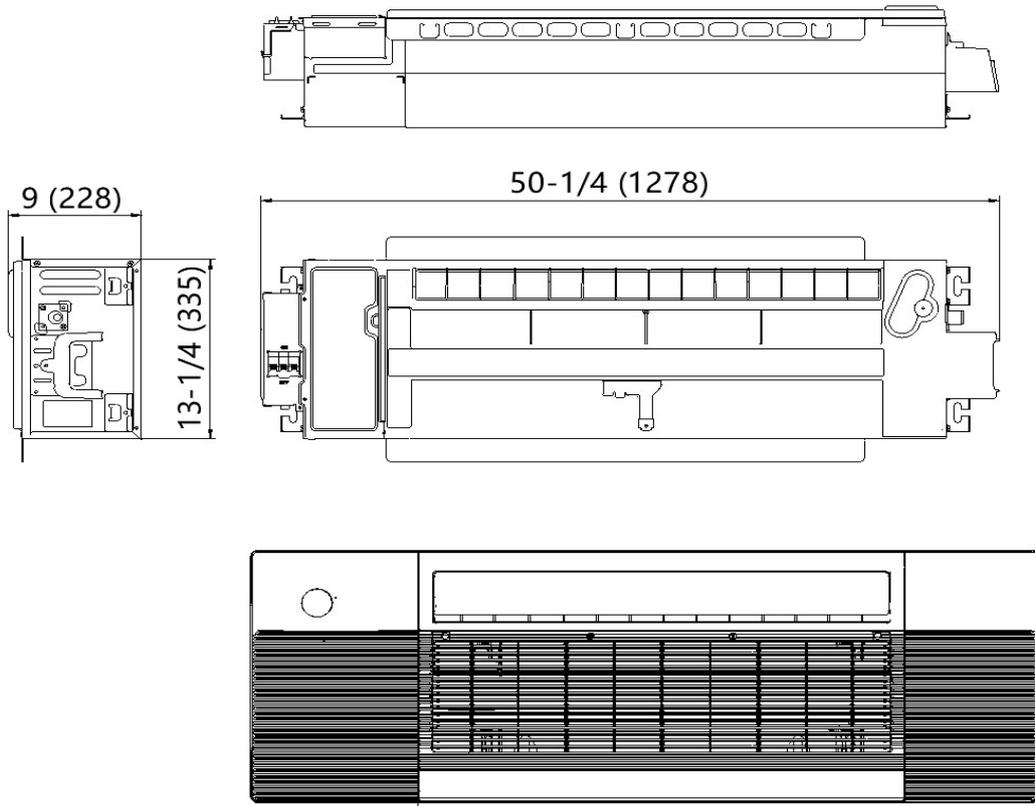
Power Supply	208 / 230 V, 60 Hz, 1 Ph
System MCA	15.0
Connection Wiring	AWG 14/4
System MOCP	15.0
Compressor RLA	11.6
Outdoor Fan Motor RLA	0.5
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	1
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	923 (147~1,230)
System Power Input @ Heating (W)	1,030 (362~1,377)
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
Liquid Size	1/4" (6.35 mm)
Gas Size	3/8" (9.52 mm)
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

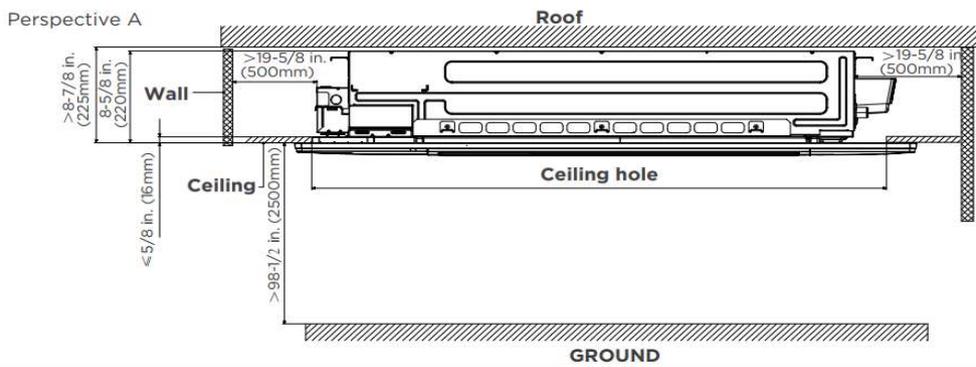
Unit: inch (mm)



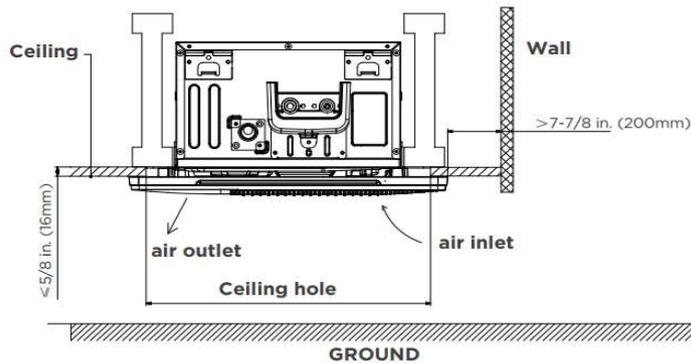
Installation Instruction

Installation place

(unit: inch/mm)

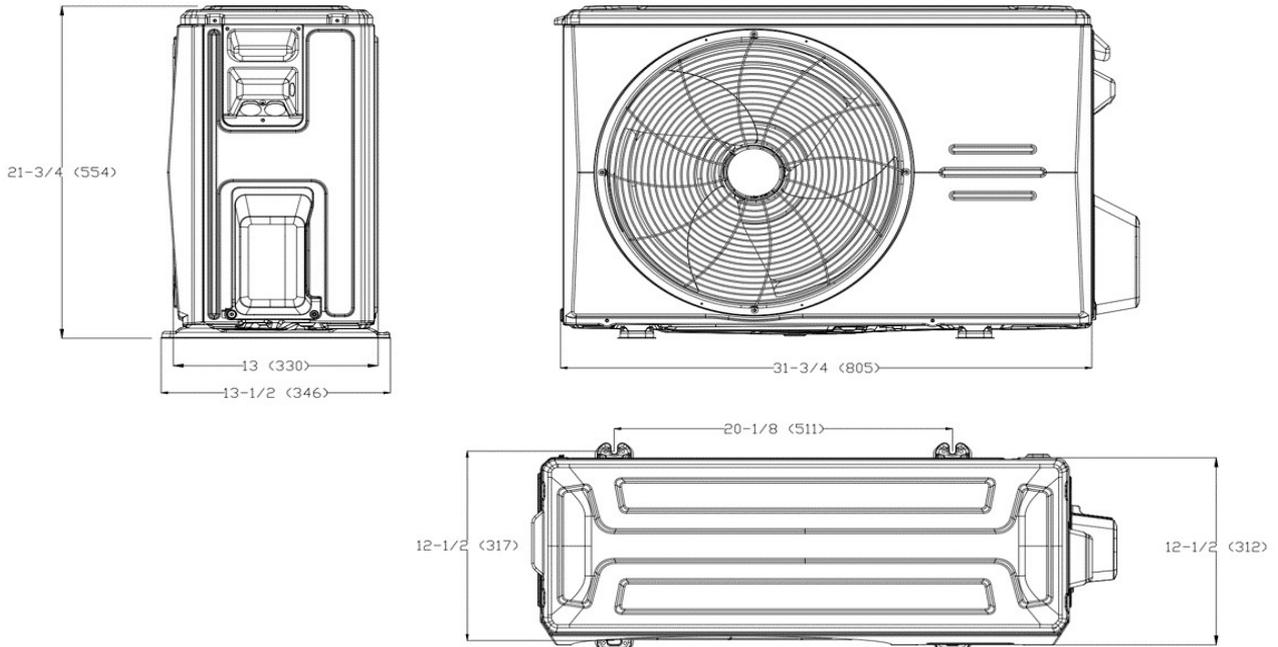


Perspective B

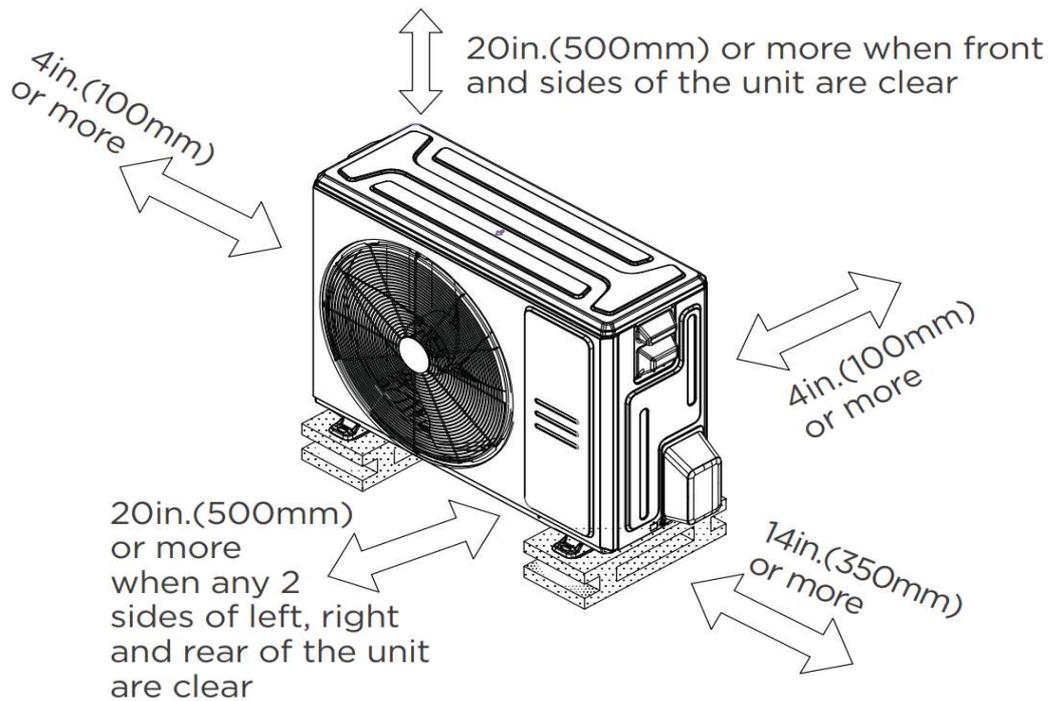


Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction



FEATURES

- Designed to fit between both I-joist spacing and traditional joist spacing
- Elevation panel
- Refrigerant leakage detection sensor(Optional)
- Humidity sensor
- Built-in pump
- Built-in circuit breaker
- 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.