

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: One Way Cassette Xtreme Heat Series
 Model Number: MCAHU-H09B-2A/ MO1HS-H09B-2A

One 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)	341 / 294 / 259 / 235 / 235		
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	38 / 38 / 36 / 33 / 24		
Dimension (W×D×H)	inch	50-1/4 x 13-1/4 x 9	
	mm	1278 x 335 x 228	
Package (W×D×H)	inch	57-5/8 x 22-1/2 x 22-5/8	
	mm	1463 x 571 x 575	
Net/Gross Weight	lbs	45 / 82	
	kg	20.5 / 37.4	

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)	54.5		
Dimension (W×D×H)	inch	31-3/4 x 13 x 21-3/4	
	mm	805 x 330 x 554	
Package (W×D×H)	inch	36 x 14-5/8 x 24-1/4	
	mm	915 x 370 x 615	
Net/Gross Weight	lbs	73 / 79	
	kg	33 / 35.7	

EFFICIENCY

Cooling		Heating	
SEER2	24.0	HSPF2-4	12.1
EER2	14.6	COP	3.71

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	9,000
Min/Max Capacity	4,000~12,900
Moisture Removal(L/h)	0.98
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	10,900
1. @ 47°F Min/Max Capacity	3,800~13,900
2. @ 17°F Rated	9,000
3. @ 5°F Rated: Capacity / COP	10,600 / 1.83
3. @ 5°F Max: Capacity	10,600
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

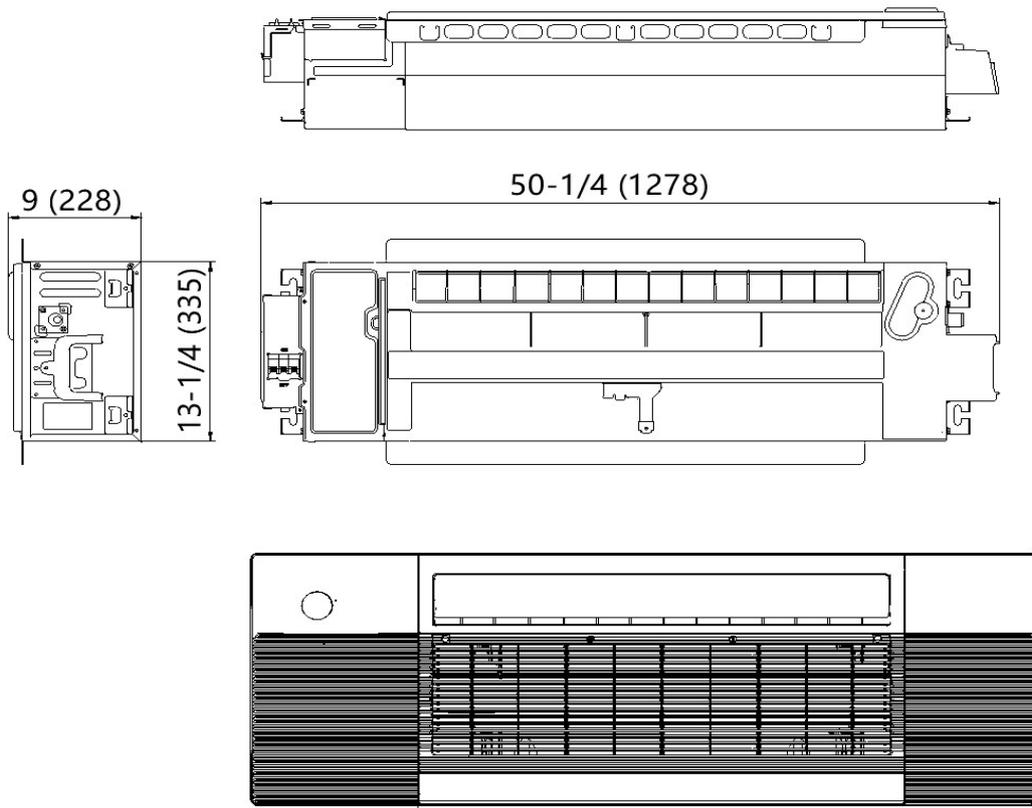
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	15.0	
Connection Wiring	AWG 14/4	
System MOCP	15.0	
Compressor RLA	10.4	
Outdoor Fan Motor RLA	0.6	
Outdoor Fan Motor W	34	
Indoor Fan Motor RLA	0.8	
Indoor Fan Motor W	30	
System Power Input @ Cooling (W)	610 (147~1,150)	
System Power Input @ Heating (W)	860 (300~1,350)	
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

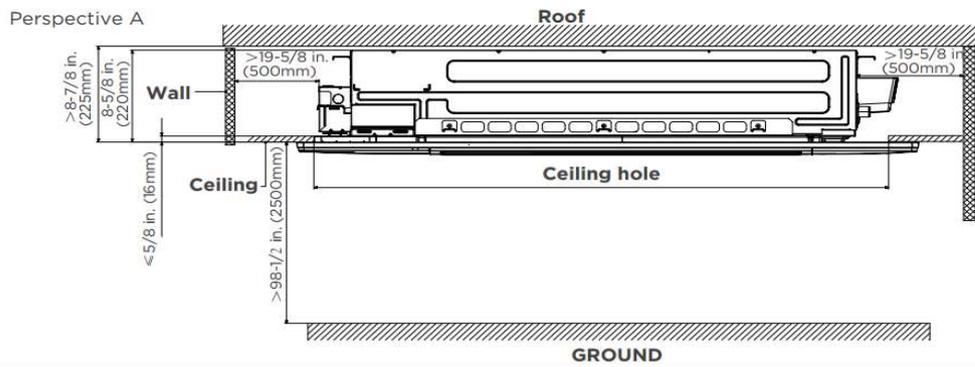
Unit: inch (mm)



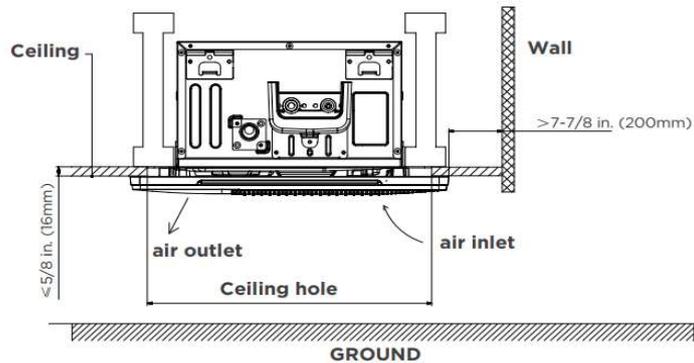
Installation Instruction

Installation place

(unit: inch/mm)

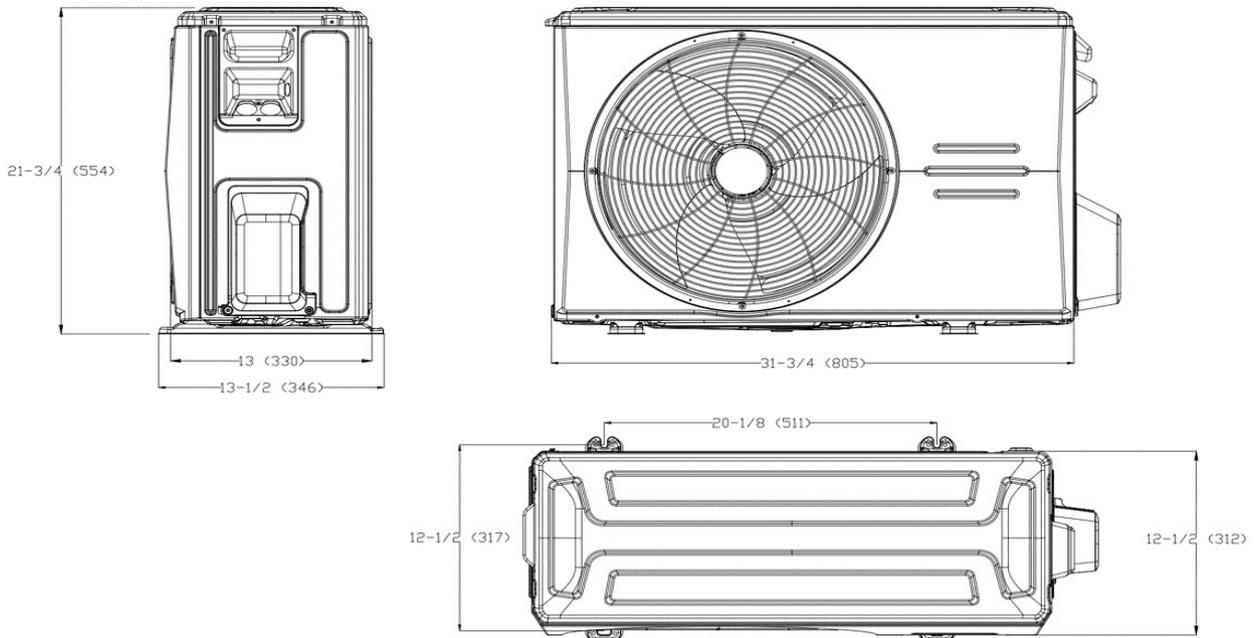


Perspective B

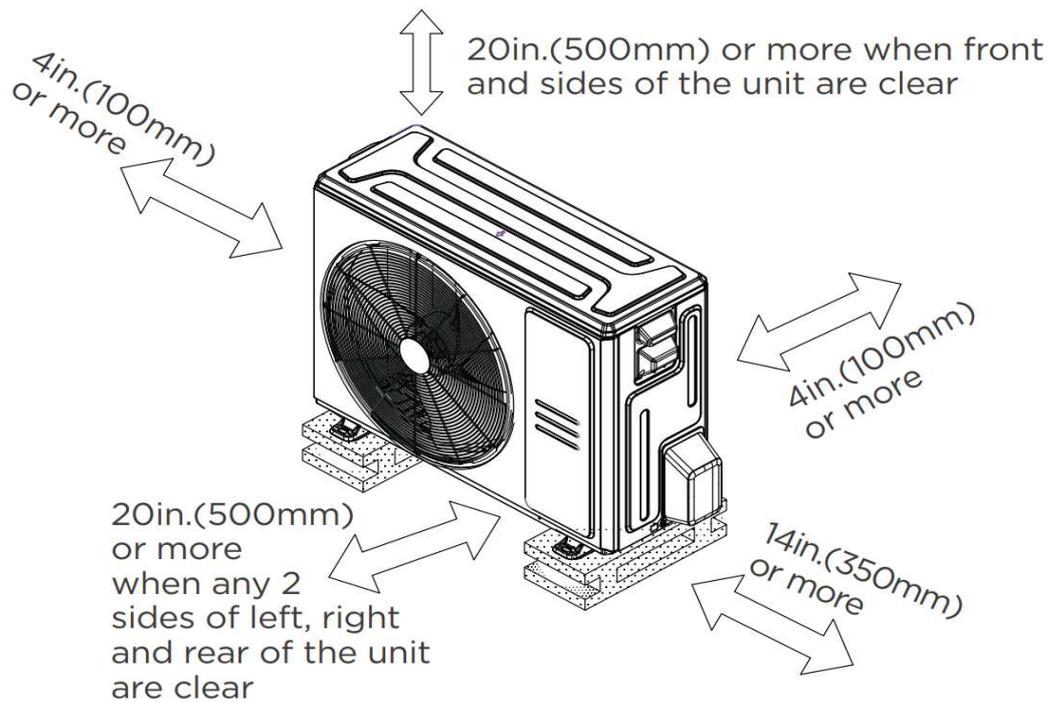


Outdoor Unit Dimension

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.