

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: One Way Cassette Hyper Heat Series  
Model Number: [MCAHU-H18B-2A/MO1ES-H18B-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)	400 / 352 / 300 / 207 / 207	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	44 / 44 / 41 / 29.5 / 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 / 83
	kg	20.5 / 37.6

### 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 (W×D×H)	inch	35 x 13-1/2 x 26-1/2
	mm	890 x 342 x 673
Package (W×D×H)	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	22.2	HSPF2-4	12.2
EER2	12.5	COP	3.30

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	4,000~18,800
Moisture Removal(L/h)	2.08
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	7,600~22,800
2. @ 17°F Rated	14,000
3. @ 5°F Rated: Capacity / COP	13,100 / 2.24
3. @ 5°F Max: Capacity	13,100
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

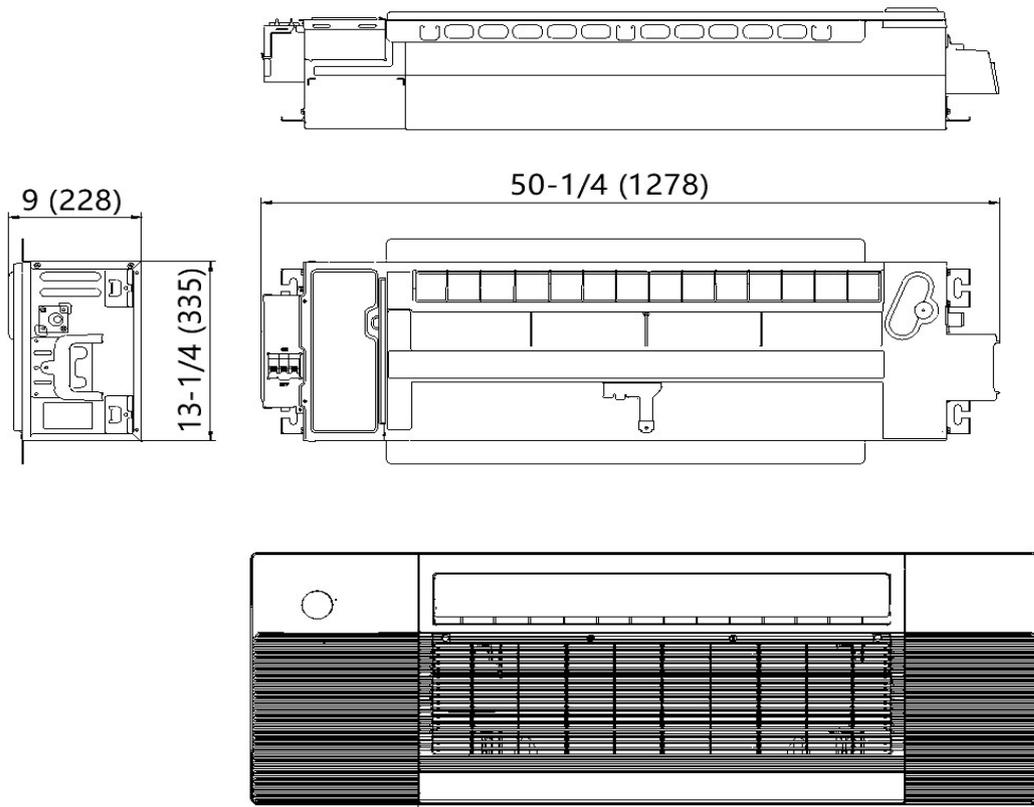
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	18.0	
Connection Wiring	AWG 14/4	
System MOCP	20.0	
Compressor RLA	10	
Outdoor Fan Motor RLA	0.9	
Outdoor Fan Motor W	80	
Indoor Fan Motor RLA	1.2	
Indoor Fan Motor W	30	
System Power Input @ Cooling (W)	1,440 (450~1,660)	
System Power Input @ Heating (W)	1,600 (400~1,880)	
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" (6.35 mm)
Gas Size	1/2" (12.7 mm)
Max. Piping Length(ft/m)	98 (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

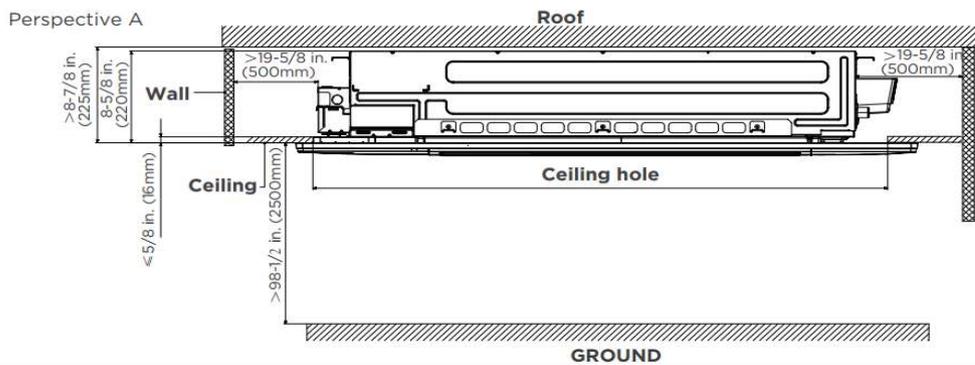
Unit: inch (mm)



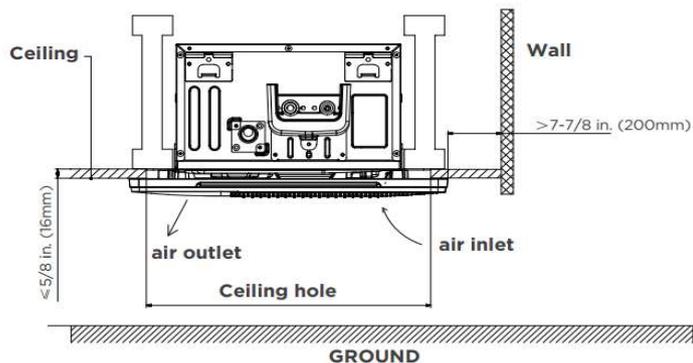
Installation Instruction

Installation place

(unit: inch/mm)

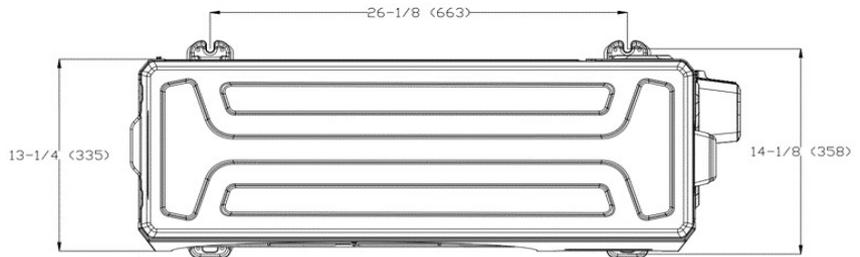
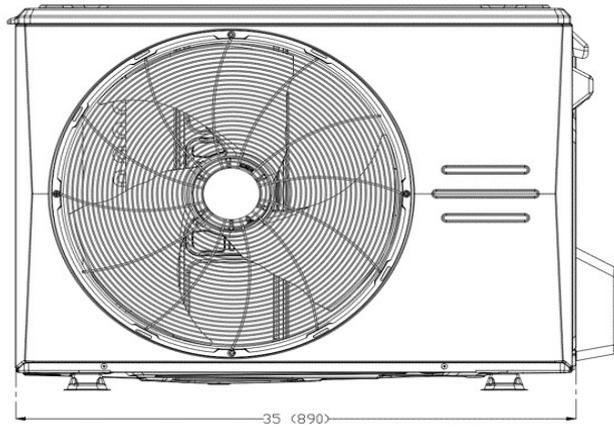
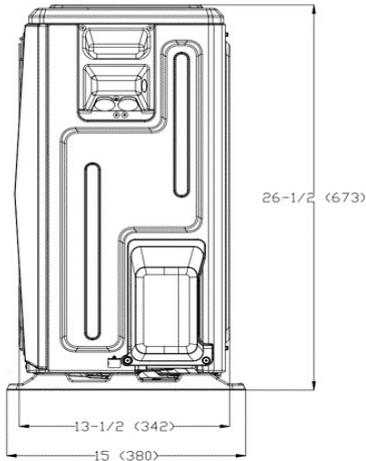


Perspective B

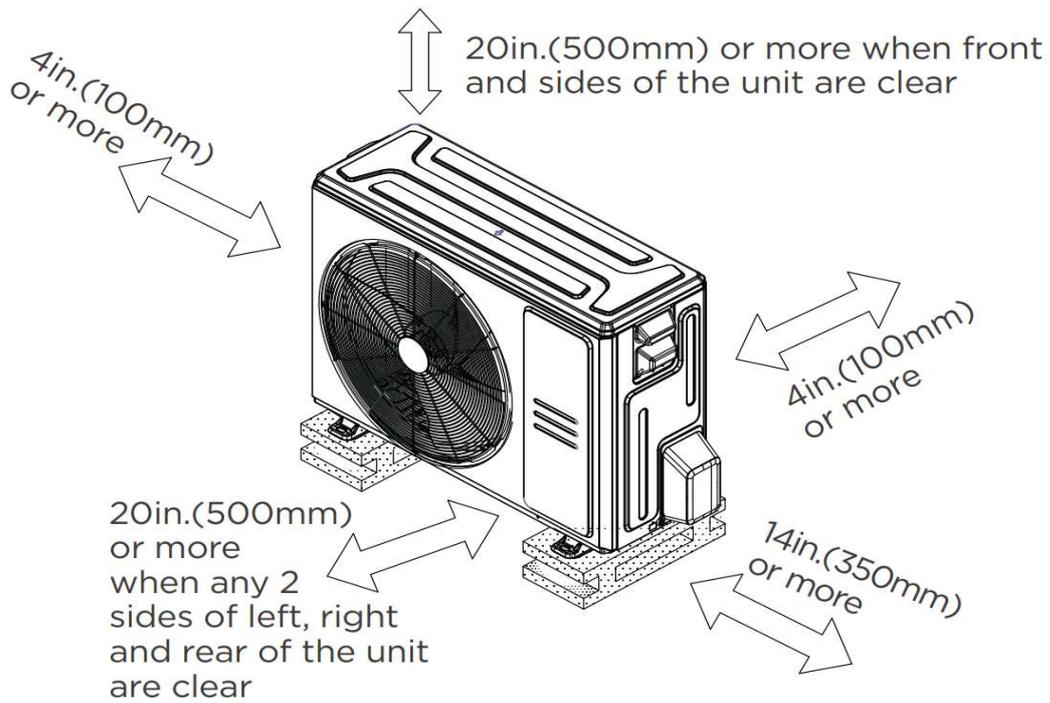


### Outdoor Unit Dimension

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.