

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: EP High Tier Series  
Model Number: MSESU-H12B-2A/MO1SS-H12B-2A

## High Wall 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)	559 / 424 / 212 / 153 / 153		
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	42 / 42 / 33 / 23 / 19		
Dimension (W×D×H)	inch	38 x 9-3/8 x 12-1/2	
	mm	965 x 239 x 319	
Package (W×D×H)	inch	43-1/8 x 12-3/4 x 15-3/4	
	mm	1095 x 325 x 400	
Net/Gross Weight	lbs	28 / 37	
	kg	12.8 / 16.7	

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY		
Compressor Model	KTM110D79UFZA3		
Refrigerant	R454B		
Refrigerant Oil Charge(mL)	500		
Refrigerant Oil	VG74		
Outdoor Air Flow (Max) (CFM)	1,471		
Outdoor Noise Level (dBA)	57		
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	100 / 108	
	kg	45.2 / 48.9	

### EFFICIENCY

Cooling		Heating	
SEER2	29.4	HSPF2-4	14.5
EER2	14.2	COP	3.60

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	12,000
Min/Max Capacity	3,100~16,500
Moisture Removal(L/h)	0.5
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	12,000
1. @ 47°F Min/Max Capacity	4,100~17,200
2. @ 17°F Rated	11,000
3. @ 5°F Rated: Capacity / COP	13,500 / 2.00
3. @ 5°F Max: Capacity	13,500
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

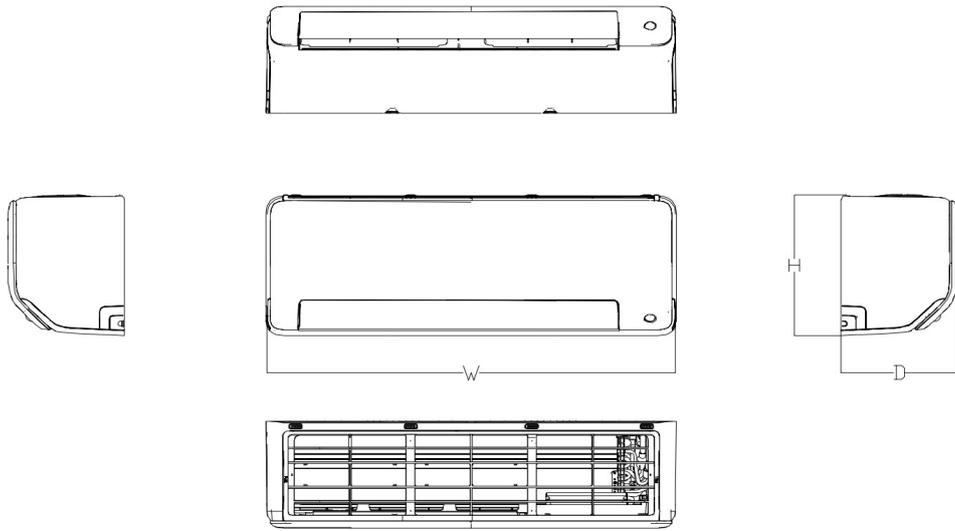
### ELECTRICAL

Power Supply	208 / 230V,60Hz,1Ph
System MCA	16.0
Connection Wiring	AWG 14 / 4
System MOCP	20.0
Compressor RLA	11.6
Outdoor Fan Motor RLA	0.7
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	0.7
Indoor Fan Motor W	60
System Power Input @ Cooling (W)	840 (180 ~ 1,380)
System Power Input @ Heating (W)	977 (200 ~ 1,585)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

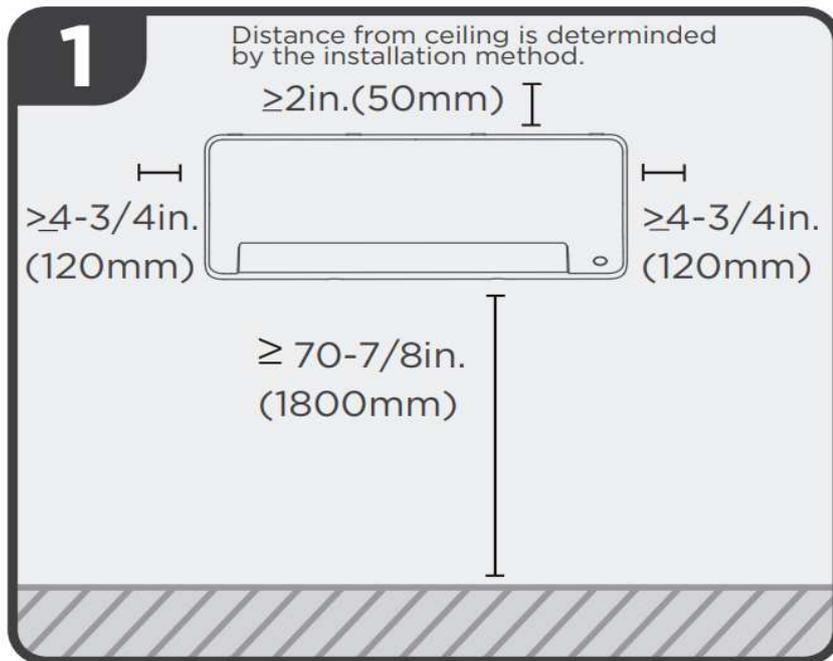
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV
Liquid Size	1/4" (6.35mm)
Gas Size	3/8" (9.52mm)
Max. Piping Length(ft/m)	82 (25)
Max. Height Difference(ft/m)	49 (15)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/g)	44 (1.25)
Additional Charge of Refrigerant((oz/ft)/(g/r	0.16 (15)
Connection Method	Flared

### Indoor Unit Dimension



Capacity	Body Code	Unit	W	D	H
9 k~12k	C	mm	965	239	319
		inch	38	9-3/8	12-1/2
18k	D	mm	1140	275	370
		inch	44-7/8	10-7/8	14-1/2

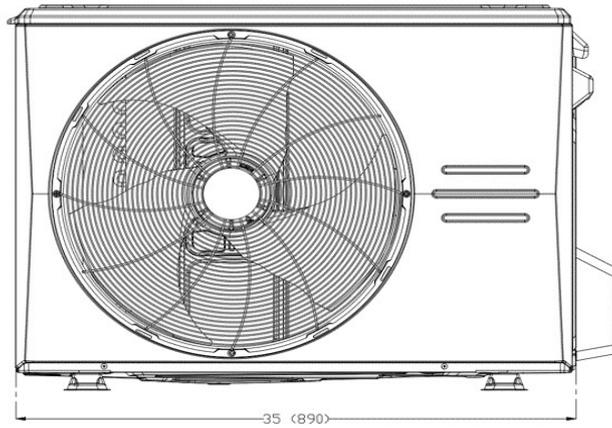
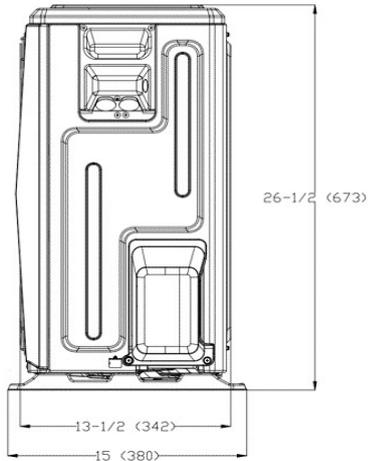
### Installation Instruction



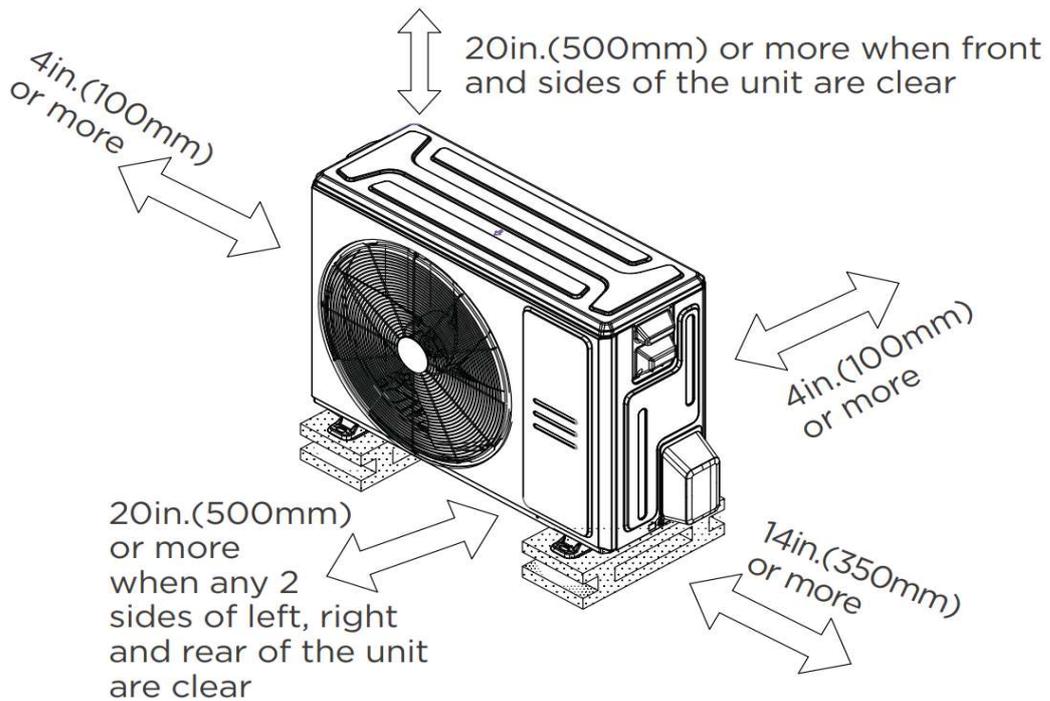
Select Installation Location

### Outdoor Unit Dimension

Unit: inch (mm)



### Installation Instruction



## FEATURES

- Intelligent eye
- Easy maintenance design
- Indoor unit TU1 copper coil
- Humidity control
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using WiFi dongle)
- Multiple control options available:
  - Two-way communication wired controller:120N(X6)
  - Two-way communication wired controller with built-in Wi-Fi: 120N (X6W)
  - Infrared wired controller: 120L
  - Wireless remote controller
  - Third-Party 24V Thermostat\*

\*24V interface is required.