

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: EP Energy Star 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 (WxDxH)	inch 38 x 9-3/8 x 12-1/2
	mm 965 x 239 x 319
Package (WxDxH)	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 (WxDxH)	inch 35 x 13-1/2 x 26-1/2
	mm 890 x 342 x 673
Package (WxDxH)	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	HSPF2-4
29.4	14.5
EER2	COP
14.2	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

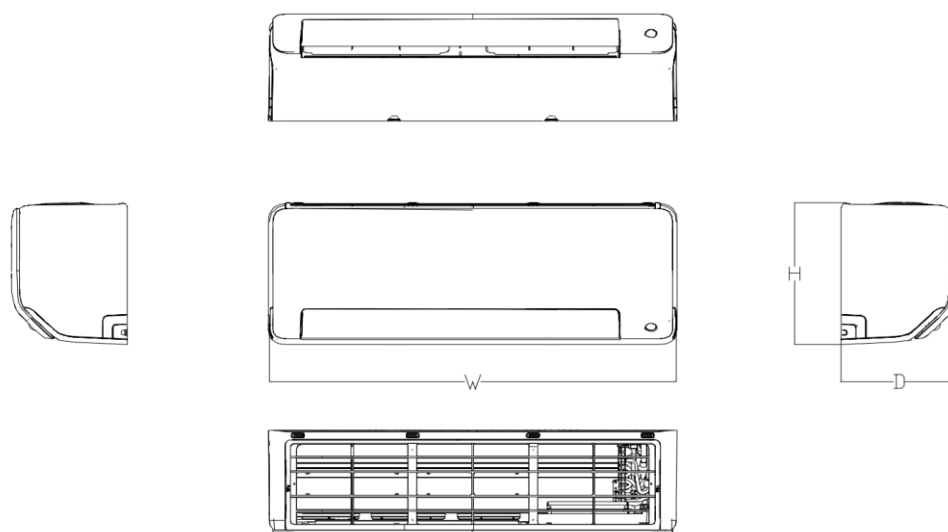
ELECTRICAL

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

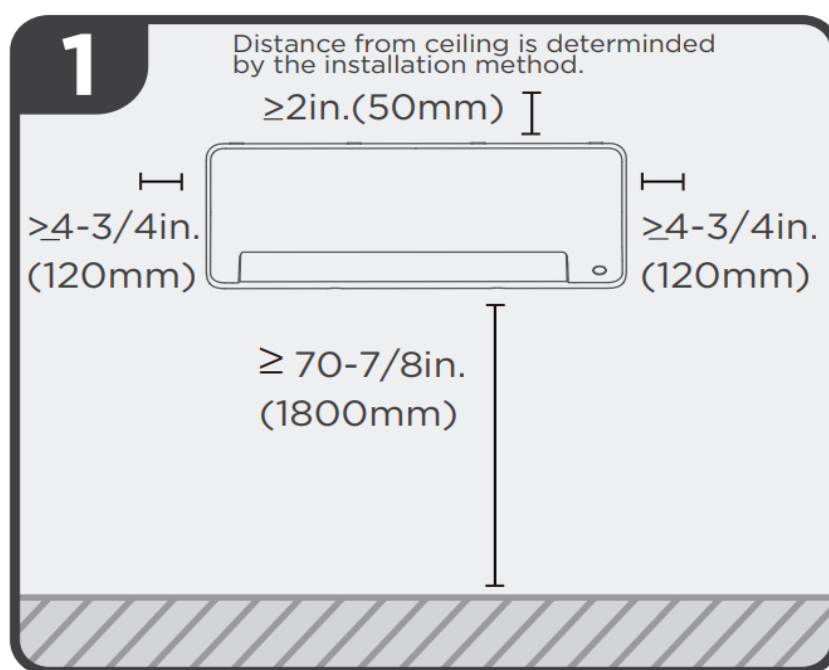
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV
Liquid Size	1/4" (6.35mm)
Gas Size	3/8" (9.52mm)
Max. Piping Length(ft/m)	82 (25)
Max. Height Difference(ft/m)	49 (15)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/g)	44 (1.25)
Additional Charge of Refrigerant((oz/ft)/(g/r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

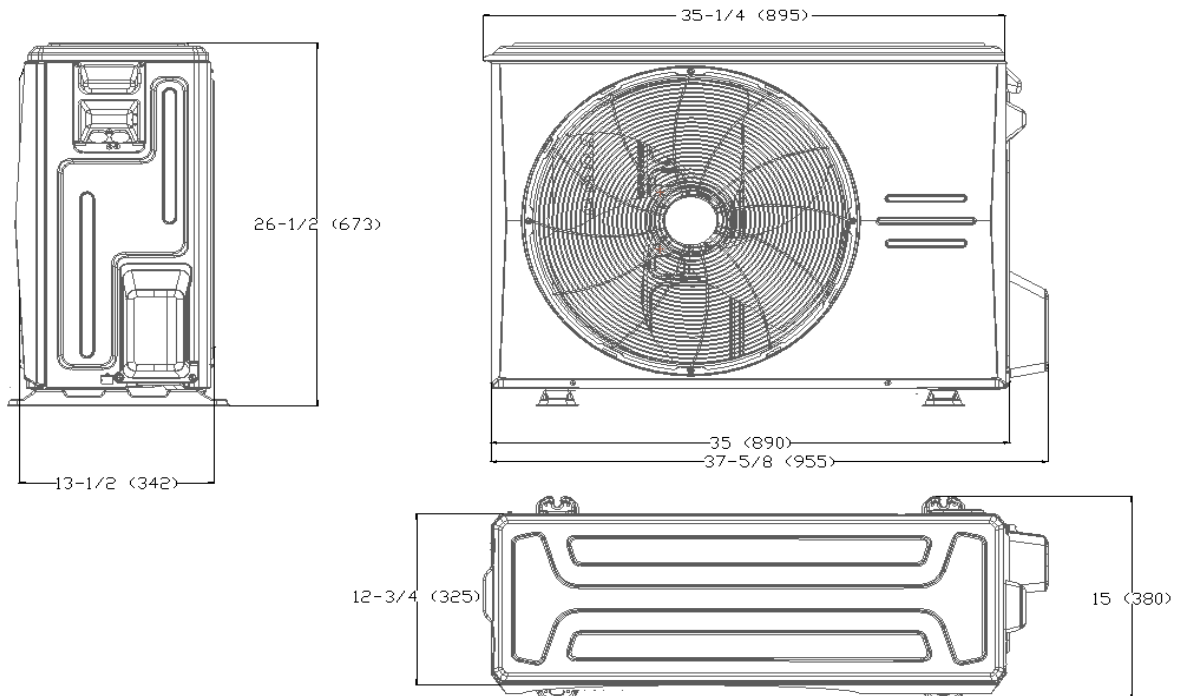
Installation Instruction



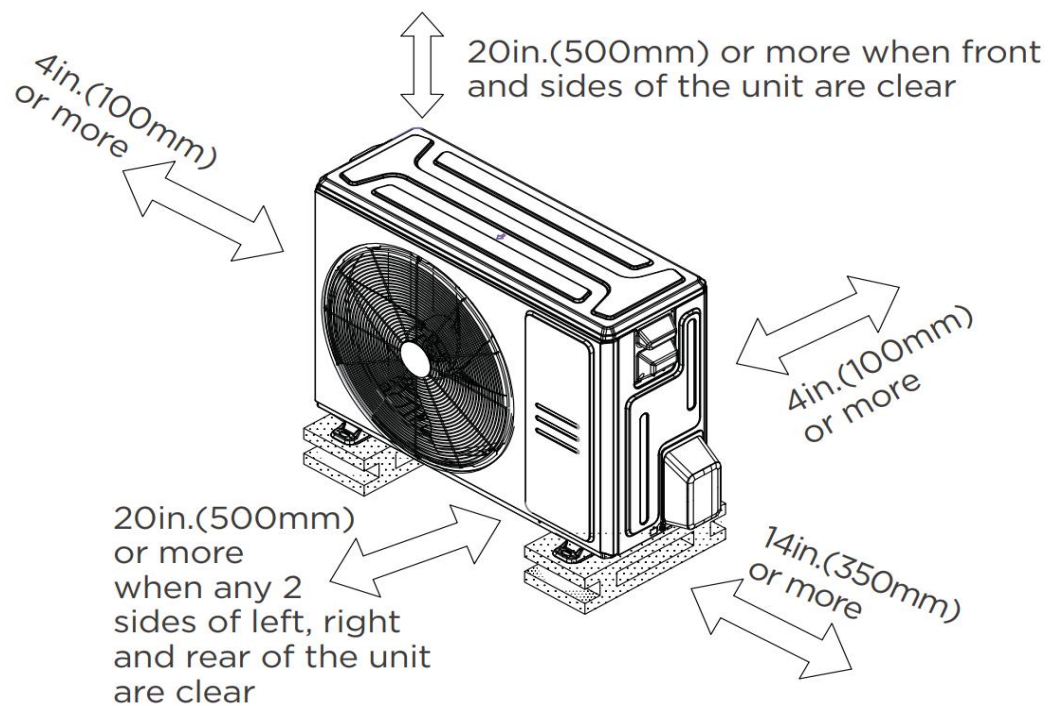
Select Installation Location

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 WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*

*24V interface is required.