

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: EP High Tier Series
Model Number: MSESU-H18B-2A/MO1SS-H18B-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)	812 / 618 / 412 / 318 / 317
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	55 / 44 / 39 / 27 / 16
Dimension (W×D×H)	inch: 44-7/8 x 10-7/8 x 14-1/2 mm: 1140 x 275 x 370
Package (W×D×H)	inch: 50-3/8 x 14-1/8 x 17-7/8 mm: 1280 x 360 x 455
Net/Gross Weight	lbs: 44 / 56 kg: 19.8 / 25.2

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTM240D46UKT2
Refrigerant	R454B
Refrigerant Oil Charge(mL)	620
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	2,235
Outdoor Noise Level (dBA)	61.5
Dimension (W×D×H)	inch: 37-1/4 x 16-1/8 x 31-7/8 mm: 946 x 410 x 810
Package (W×D×H)	inch: 42-7/8 x 19-5/8 x 34-7/8 mm: 1090 x 500 x 885
Net/Gross Weight	lbs: 130 / 141 kg: 59.1 / 64.1

EFFICIENCY

Cooling	Heating
SEER2: 25.6	HSPF2-4: 16.2
EER2: 15.0	COP: 4.40

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	12,600~27,900
Moisture Removal(L/h)	1.1
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	20,000
1. @ 47°F Min/Max Capacity	9,700~29,700
2. @ 17°F Rated	19,300
3. @ 5°F Rated: Capacity / COP	22,600 / 2.34
3. @ 5°F Max: Capacity	22,600
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

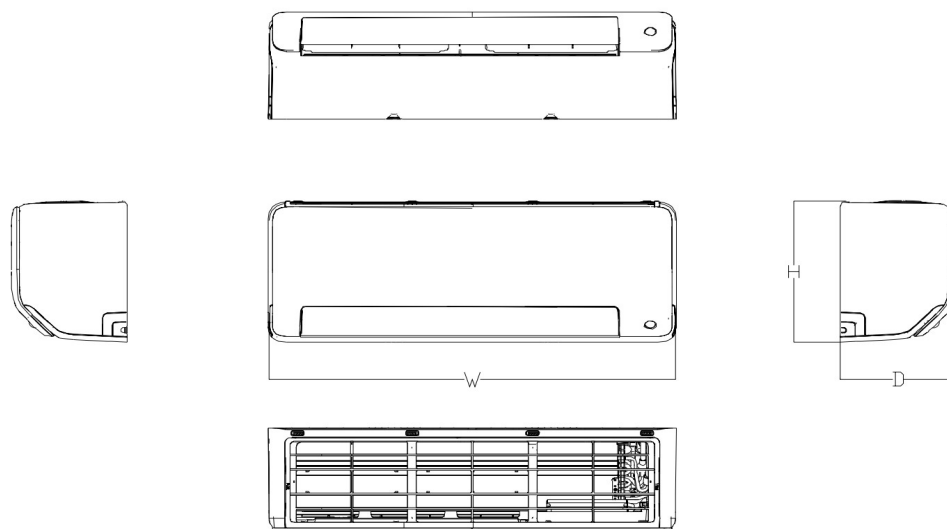
ELECTRICAL

Power Supply	208 / 230V, 60Hz, 1Ph
System MCA	24.9
Connection Wiring	AWG 14 / 4
System MOCP	25.0
Compressor RLA	15.0
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	1.3
Indoor Fan Motor W	58
System Power Input @ Cooling (W)	1,200 (940 ~ 2,280)
System Power Input @ Heating (W)	1,332 (525 ~ 2,440)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

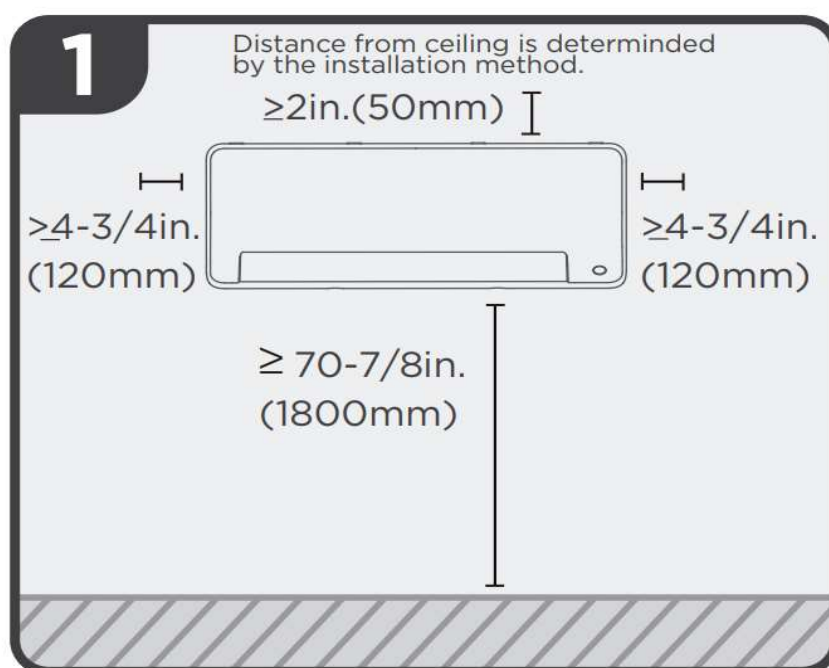
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	5/8" (15.9mm)
Max. Piping Length(ft/m)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/g)	63 (1.8)
Additional Charge of Refrigerant((oz/ft)/(g/r	0.32 (30)
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

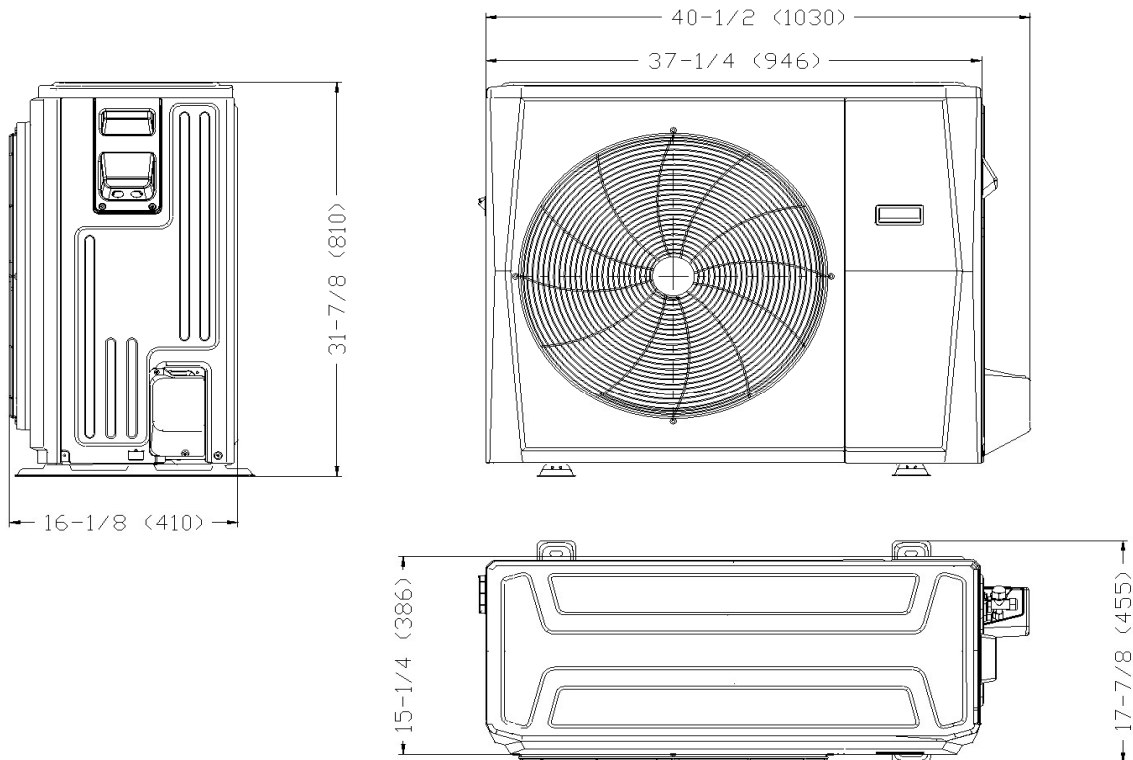
Installation Instruction



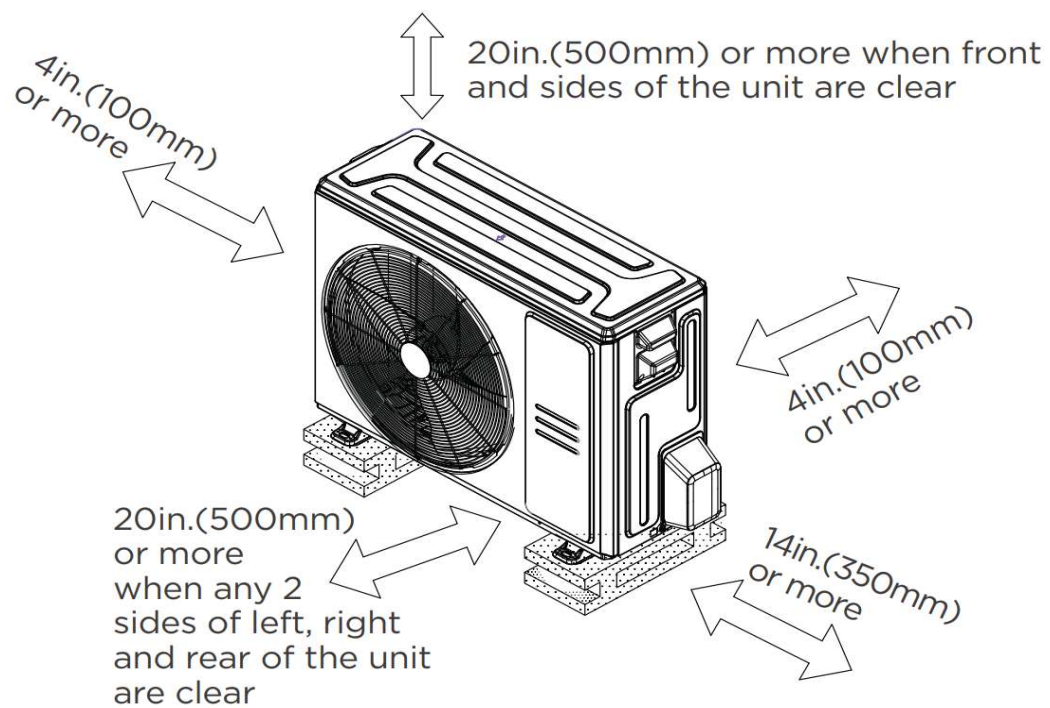
Select Installation Location

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.