

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: AG Entry Series  
Model Number: MSGNS-H30B-2A/MO1BS-H30B-2A

### High Wall Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



### INDOOR SPECIFICATION

<b>Indoor Air Flow (Turbo/H/M/L/Si) (CFM)</b>	871 / 648 / 447 / 330 / 330	
<b>Indoor Noise Level (Turbo/H/M/L/Si) (dBA)</b>	56 / 52 / 45 / 36 / 22	
<b>Dimension (W×D×H)</b>	inch	49-5/8 x 11-1/8 x 14-1/4
	mm	1259 × 283 × 362
<b>Package (W×D×H)</b>	inch	52-3/4 x 17-3/4 x 15-1/8
	mm	1340 × 450 × 385
<b>Net/Gross Weight</b>	lbs	43/57
	kg	19.7/25.8

### OUTDOOR SPECIFICATION

<b>Compressor Type</b>	ROTARY	
<b>Compressor Model</b>	KTF250D22UMT	
<b>Refrigerant</b>	R454B	
<b>Refrigerant Oil Charge(mL)</b>	670	
<b>Refrigerant Oil</b>	VG74	
<b>Outdoor Air Flow (Max) (CFM)</b>	2,235	
<b>Outdoor Noise Level (dBA)</b>	61.5	
<b>Dimension (W×D×H)</b>	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 × 410 × 810
<b>Package (W×D×H)</b>	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 × 500 × 885
<b>Net/Gross Weight</b>	lbs	143/155
	kg	64.8/70.1

### EFFICIENCY

Cooling		Heating	
<b>SEER2</b>	22.3	<b>HSPF2-4</b>	9.0
<b>EER2</b>	12.0	<b>COP</b>	3.03

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
<b>Rated Capacity</b>	30,000
<b>Min/Max Capacity</b>	6,800~33,900
<b>Moisture Removal(L/h)</b>	3.6
<b>Standard Operating Range(°F/°C)</b>	-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)	
<b>1. @ 47°F Rated</b>	30,000
<b>1. @ 47°F Min/Max Capacity</b>	12,300~32,100
<b>2. @ 17°F Rated</b>	20,000
<b>3. @ 5°F Rated: Capacity / COP</b>	20,000 / 1.94
<b>3. @ 5°F Max: Capacity</b>	20,000
<b>Standard Operating Range(°F/°C)</b>	-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

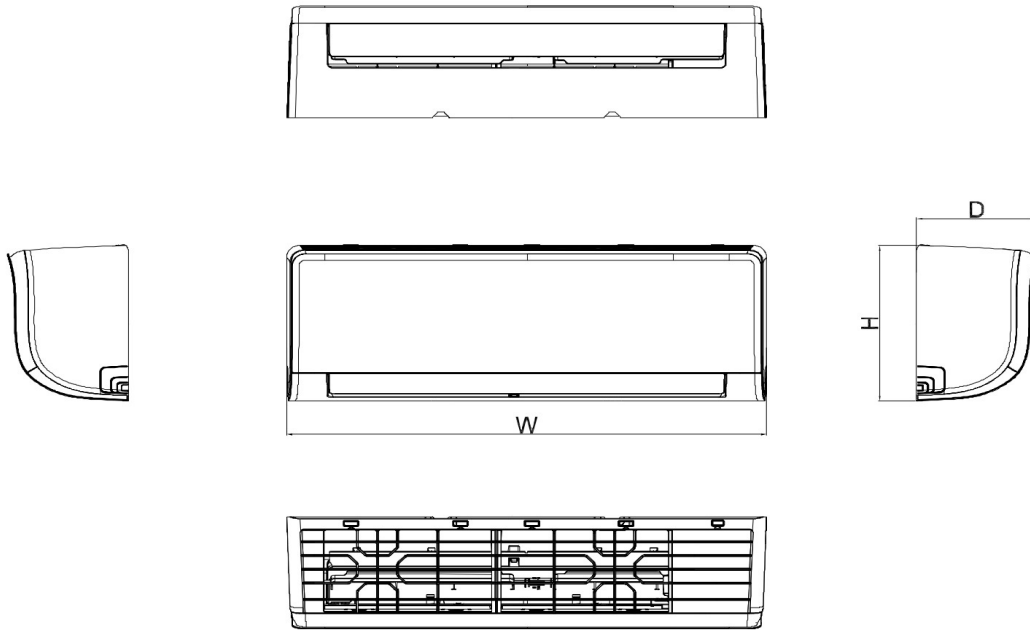
### ELECTRICAL

<b>Power Supply</b>	208/230V,60Hz,1Ph
<b>System MCA</b>	28.0
<b>Connection Wiring</b>	AWG 14/4
<b>System MOCP</b>	30.0
<b>Compressor RLA</b>	17.5
<b>Outdoor Fan Motor RLA</b>	1.3
<b>Outdoor Fan Motor W</b>	120
<b>Indoor Fan Motor RLA</b>	0.7
<b>Indoor Fan Motor W</b>	58
<b>System Power Input @ Cooling (W)</b>	2500 (700 ~ 3,220)
<b>System Power Input @ Heating (W)</b>	2900 (755 ~2,950)
<b>MCA: Min. circuit amps (A)</b>	<b>MOCP: Max. over current protection (A)</b>
<b>RLA: Rated load amps (A)</b>	<b>W: Fan motor rated output (W)</b>

### PIPING

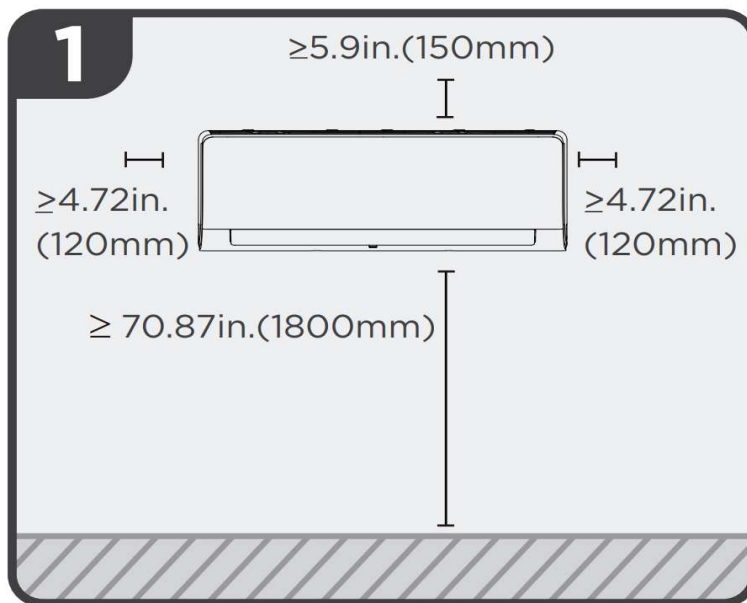
<b>Throttle type(Indoor)</b>	N/A
<b>Throttle type(Outdoor)</b>	EXV+Capillary
<b>Liquid Size</b>	3/8" (9.52mm)
<b>Gas Size</b>	5/8" (15.9mm)
<b>Max. Piping Length(ft/m)</b>	164 (50)
<b>Max. Height Difference(ft/m)</b>	82 (25)
<b>Max. Pre-charged Length(ft/m)</b>	25 (7.5)
<b>Refrigerant Pre-charged Amount(oz/g)</b>	85 (2.4)
<b>Additional Charge of Refrigerant((oz/ft)/(g/r</b>	0.32 (30)
<b>Connection Method</b>	Flared

### Indoor Unit Dimension



Capacity	Body Code	Unit	W	D	H
9k	A	mm	726	210	291
		inch	28-5/8	8-1/4	11-1/2
12k	B	mm	835	208	295
		inch	32-7/8	8-1/4	11-5/8
18k	C	mm	969	241	320
		inch	38-1/8	9-1/2	12-5/8
24k	D	mm	1083	244	336
		inch	42-5/8	9-5/8	13-1/4
30k~36k	F	mm	1259	283	362
		inch	49-5/8	11-1/8	14-1/4

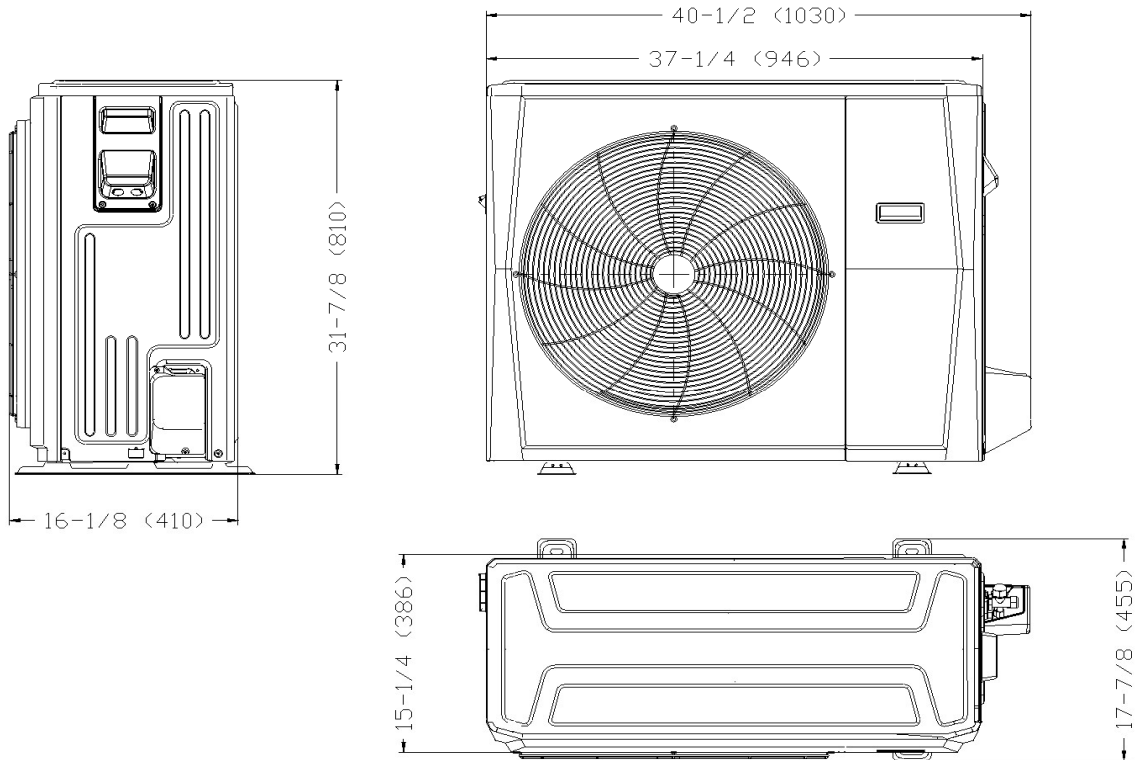
### Installation Instruction



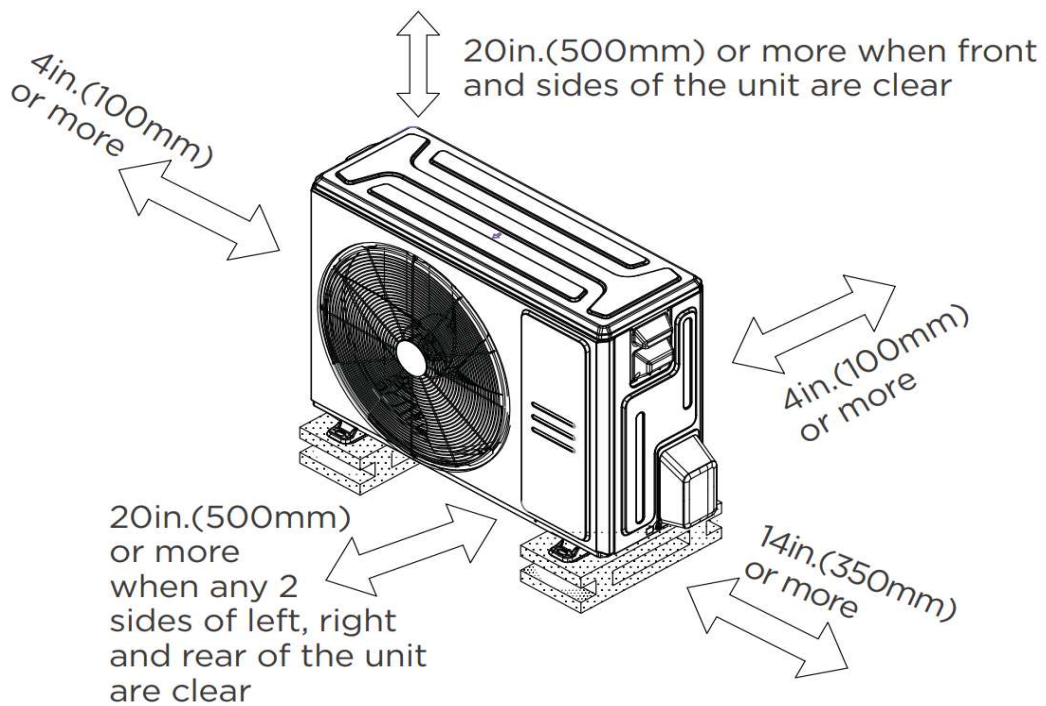
Select Installation Location

### Outdoor Unit Dimension

Unit: inch (mm)



### Installation Instruction



## FEATURES

- 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.