

R454b
Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MACHU-H24B-2A/MO1HS-H24B-2A

Air Handler Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



EFFICIENCY	
Cooling	Heating
SEER2	18.7
EER2	12
HSPF2-4	10.0
COP	3.5

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	23,000
Min/Max Capacity	7,500 ~ 27,000
Moisture Removal(L/h)	2.25
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	26,000
1. @ 47°F Min/Max Capacity	8,800 ~ 29,000
2. @ 17°F Rated	16,900
3. @ 5°F Rated: Capacity / COP	23,600 / 2.1
3. @ 5°F Max: Capacity	23,600
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

INDOOR SPEINDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	824 / 760 / 694 / 630 / 630	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	43.5 / 43.5 / 40 / 25.5 / 25.5	
Dimension (W×D×H)	inch	17-1/2 x 21 x 45
	mm	445 x 534 x 1143
Package (W×D×H)	inch	26-5/8 x 20-7/8 x 48-5/8
	mm	675 x 530 x 1235
Net/Gross Weight	lbs	104 / 126
	kg	47.3 / 57.1

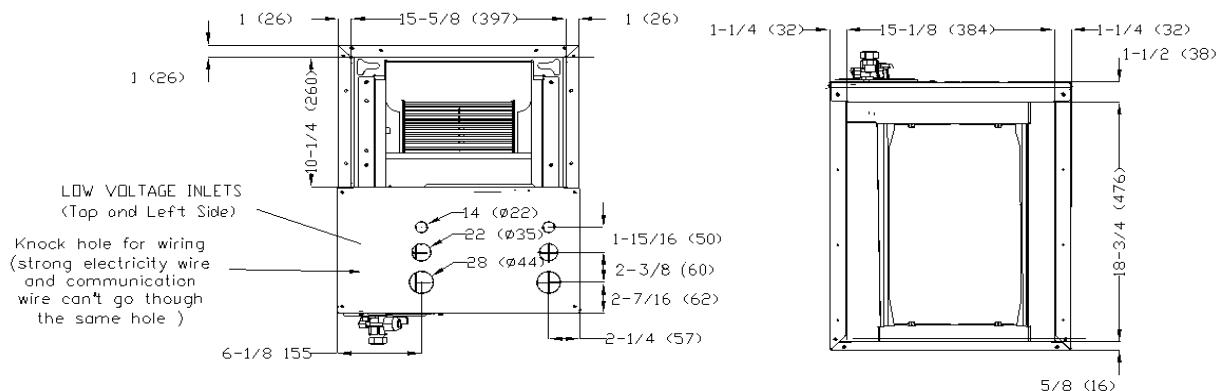
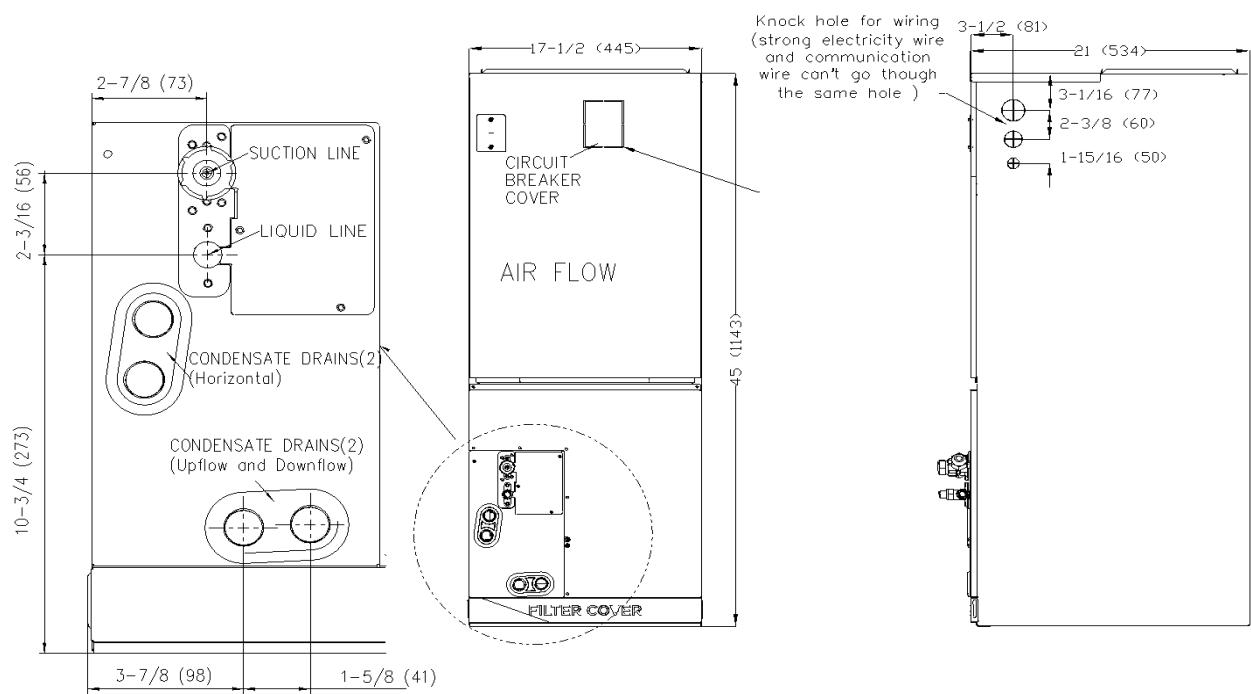
OUTDOOR SPECIFICATION		
Compressor Type	ROTARY	
Compressor Model	KTM240D46UKT2	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	620	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2,237	
Outdoor Noise Level (dBA)	61.5	
Dimension (W×D×H)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 x 410 x 810
Package (W×D×H)	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

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	3.0
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1,916 (280 ~ 2,600)
System Power Input @ Heating (W)	2,180 (410 ~ 2600)
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/kg)	64 (1.8)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

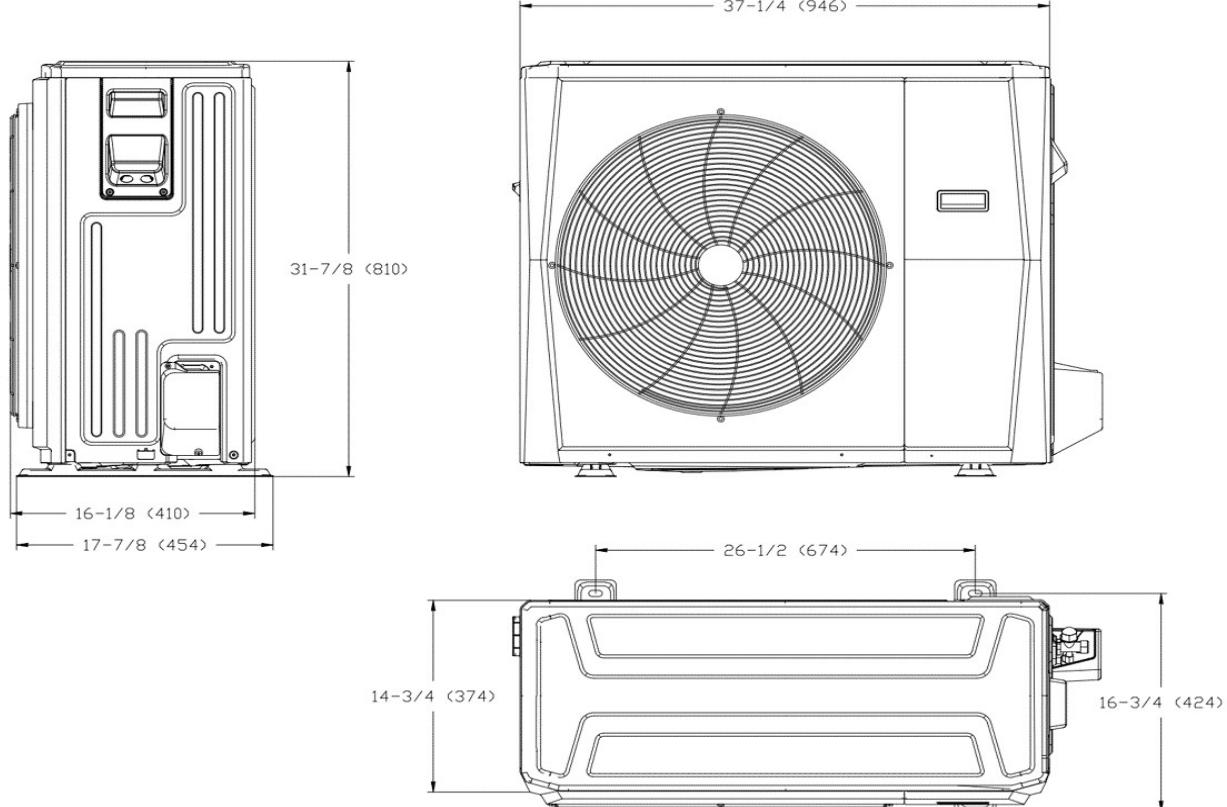
Indoor Unit Dimension

Unit:inch(mm)

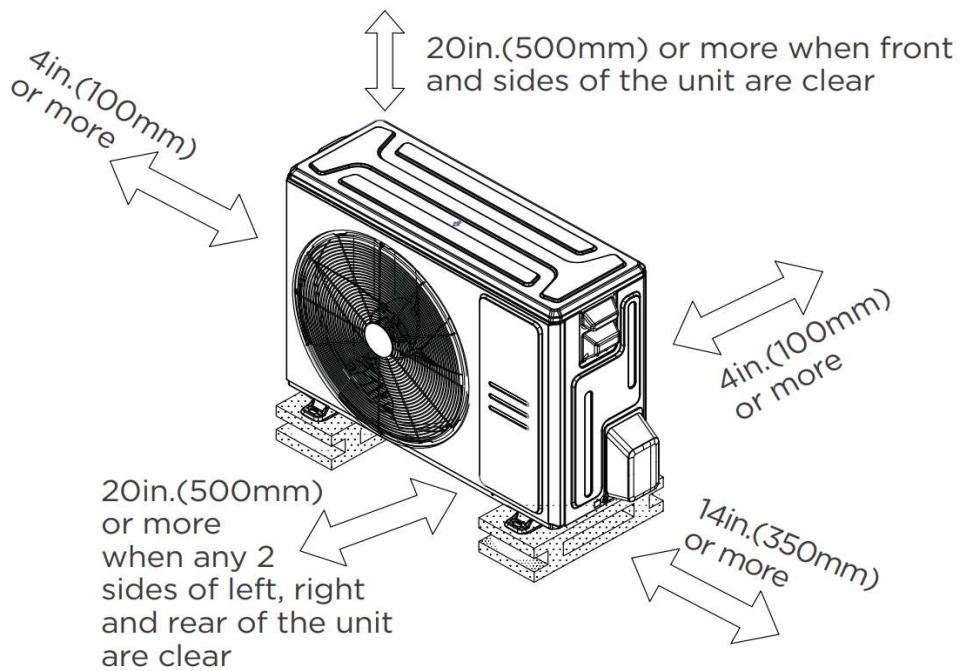


Outdoor Unit Dimension

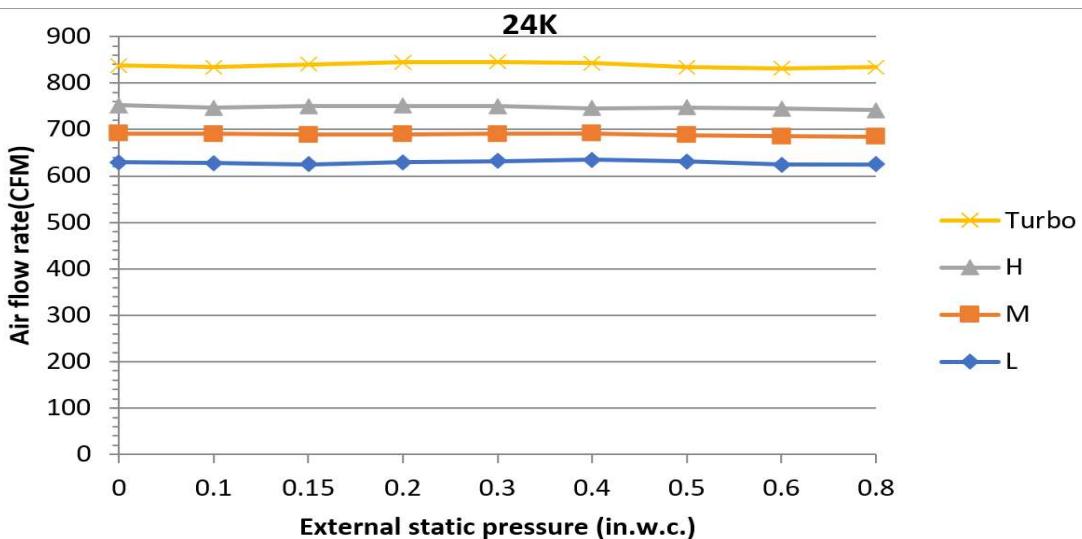
Unit:inch(mm)



Installation Instruction



Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- High efficiency up to 18.7 SEER2, 12 EER2, 10 HSPF2
- 100% heat output at 5F*
- Energy Star and Cold Climate Energy Star certified
- Chassis heater and crankcase heater equipped as standard

* Rated cooling capacity/heating capacity at 5F>=100%