

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: MACHU-H30B-2A/MO1B5-H30B-2A

Air Handler Heat Pump System

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



INDOOR SPEINDOOR SPECIFICATIONCIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	989 / 895 / 806 / 712 / 712
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	44/ 44 / 41 / 26 / 26
Dimension (W×D×H)	inch 21 x 21 x 49
	mm 534 × 534 × 1245
Package (W×D×H)	inch 26-9/16 x 24-7/16 x 52-9/16
	mm 675 × 620 × 1335
Net/Gross Weight	lbs 127 /152
	kg 57.8 / 68.8

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTF250D22UMT
Refrigerant	R454B
Refrigerant Oil Charge(mL)	670
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	2236.7
Outdoor Noise Level (dBA)	61
Dimension (W×D×H)	inch 37-1/4 x 16-1/8 x 31-7/8
	mm 946 × 410 × 810
Package (W×D×H)	inch 42-7/8 x 19-5/8 x 34-7/8
	mm 1090 × 500 × 885
Net/Gross Weight	lbs 143 /155
	kg 64.8 / 70.1

EFFICIENCY

Cooling	Heating
SEER2	HSPF2-4
EER2	COP
17	8.7
11	3.6

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	30,000
Min/Max Capacity	9,200 ~ 34,000
Moisture Removal(L/h)	3.53
Standard Operating Range(*F/*C)	-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)	
1. @ 47°F Rated	30,000
1. @ 47°F Min/Max Capacity	8,500 ~ 33,000
2. @ 17°F Rated	19,400
3. @ 5°F Rated: Capacity / COP	20,400 / 2.1
3. @ 5°F Max: Capacity	20,400
Standard Operating Range(*F/*C)	-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

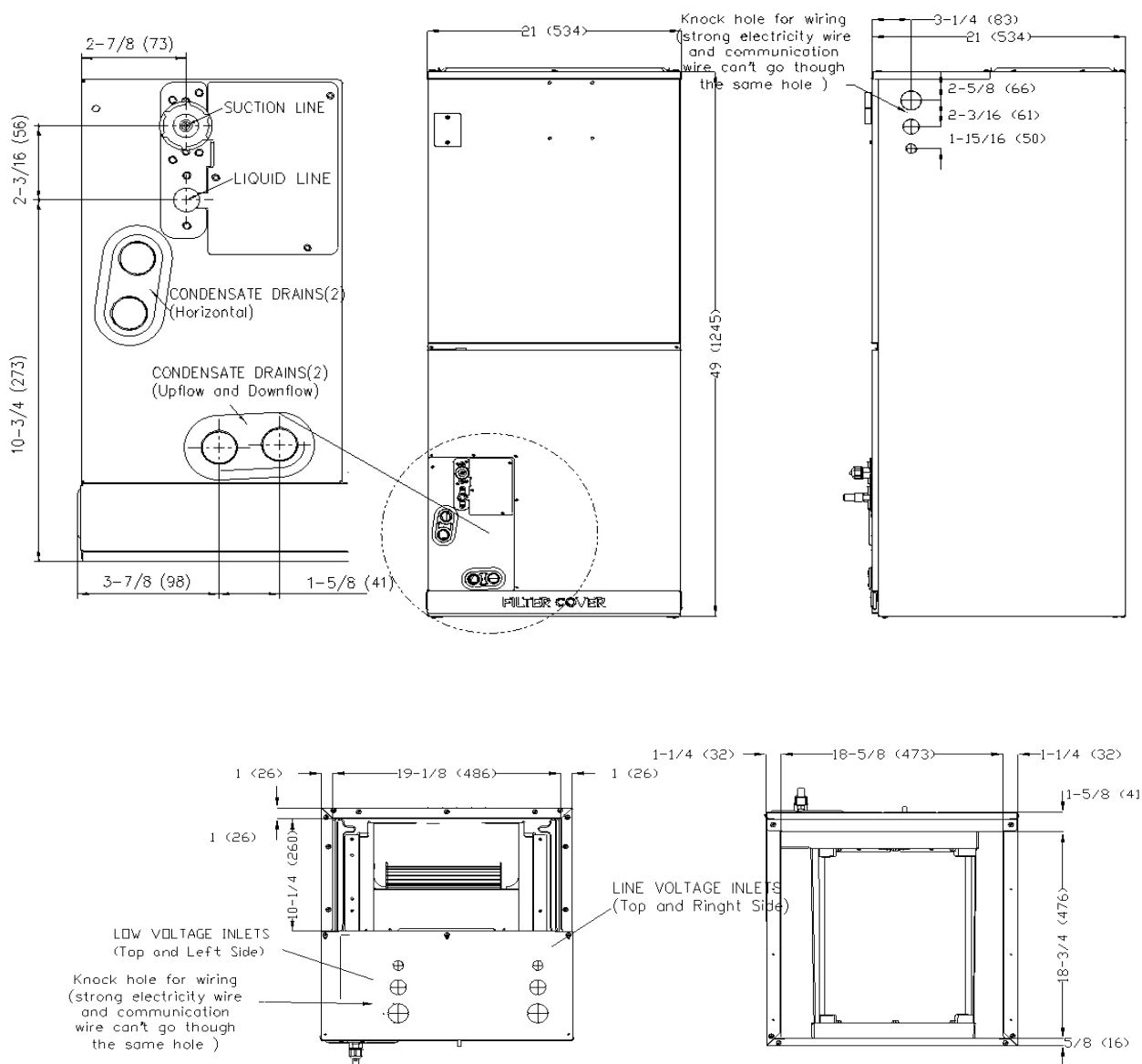
Power Supply	208/230V,60Hz,1Ph
System MCA	28.0
Connection Wiring	AWG 14-4
System MOCP	30.0
Compressor RLA	17.5
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	4.5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	2,730 (300 ~ 3,400)
System Power Input @ Heating (W)	2,440 (370 ~2,700)
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+Capillary
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)	85 (2.4)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

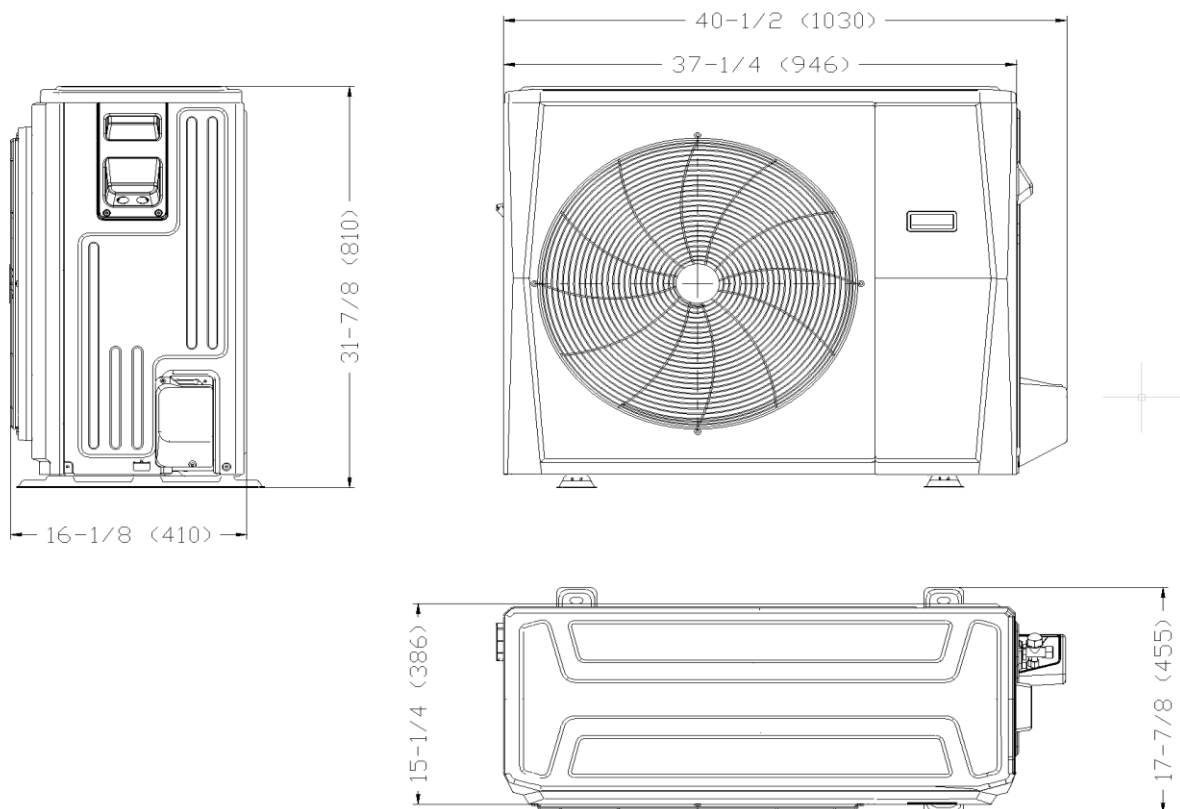
Indoor Unit Dimension

Unit:inch(mm)

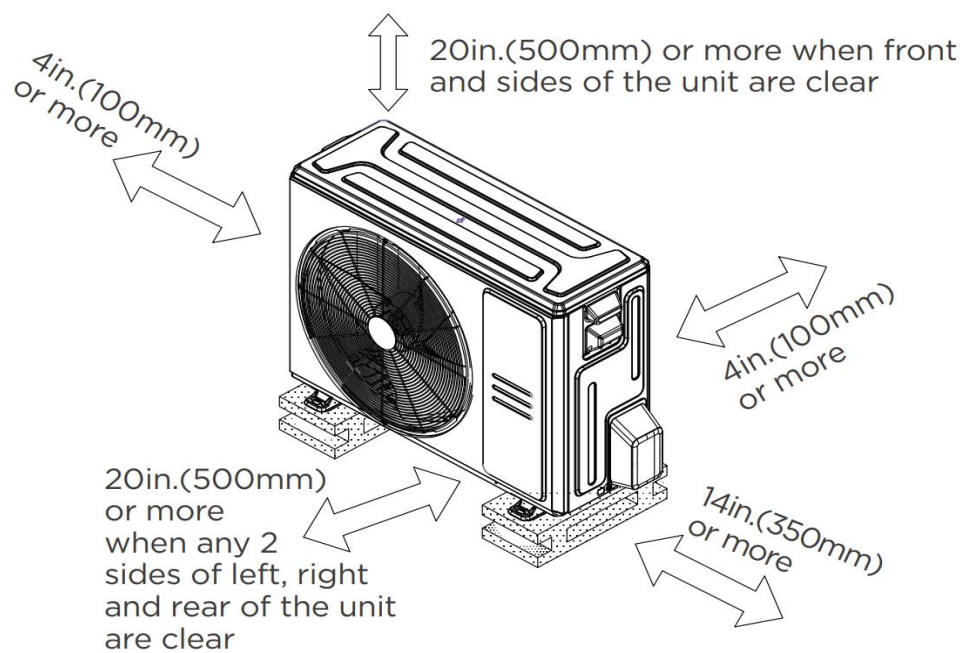


Outdoor Unit Dimension

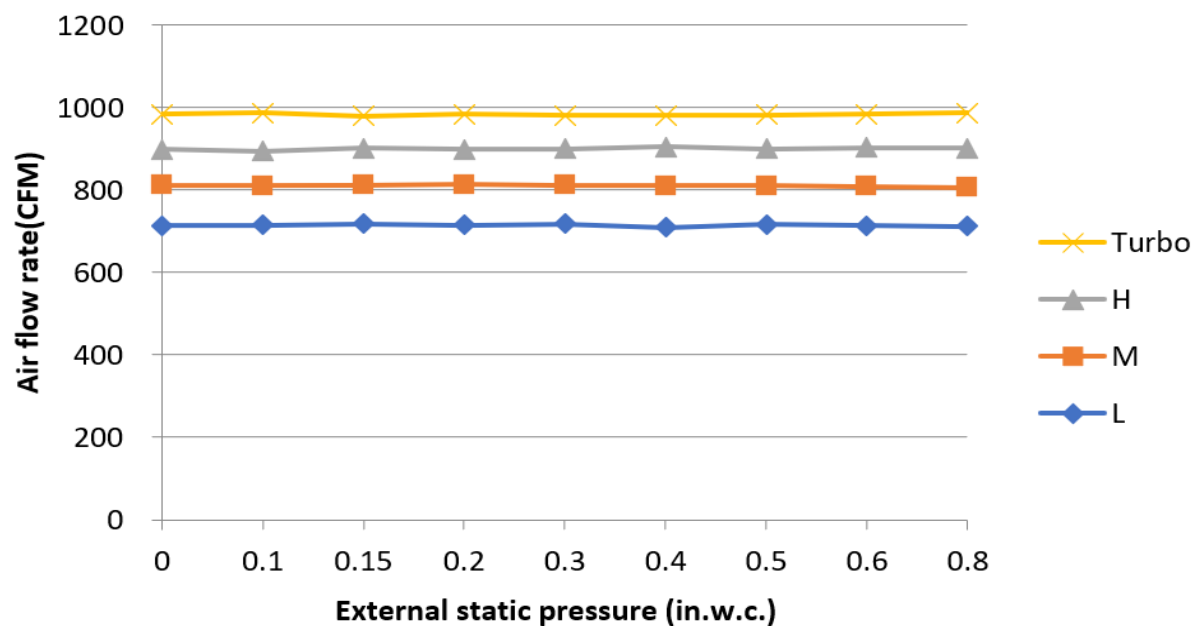
Unit:inch(mm)



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 19.7 SEER2, 12.1 EER2, 9.8 HSPF2
- Chassis heater and crankcase heater equipped as standard