

Air Handler Heat Pump System

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


INDOOR SPECIFICATION

ESP(in.W.G)		0-0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		989 / 895 / 806 / 542 / 542
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		63/62/60/54/54
Dimension (W×D×H)	inch	55.24 x 23.33 x 10.93
	mm	1403×592.7×277.6
Package (W×D×H)	inch	59.25 x 26.77 x 13.58
	mm	1505×680×345
Net/Gross Weight	lbs	63/68
	kg	63/68.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		MTH356UKRC8FQL
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1300
Refrigerant Oil		HAF68D1A
Outdoor Air Flow (Max) (CFM)		3,002
Outdoor Noise Level (dBA)		65
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946×410×810
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	164.02/174.6
	kg	74.4/79.2

EFFICIENCY

Cooling		Heating	
SEER2	16.3	HSPF2-4	9.5
EER2	11	COP	3.42

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	30,000
Min/Max Capacity	11,000~36,000
Moisture Removal(L/h)	2.56
Standard Operating Range(°F/°C)	-22~122(-30~50)
Rated Cooling 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	31,000
2. @ 47°F Min/Max Capacity	9,800~37,600
3. @ 17°F Rated	24,000
4. @ 5°F Rated: Capacity / COP	31,000/1.86
5. @ 5°F Max: Capacity	31,000
Standard Operating Range(°F/°C)	-22~75(-30~24)
1. Rated Heating Conditions:	Indoor: 70°F DB/43°F WB Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

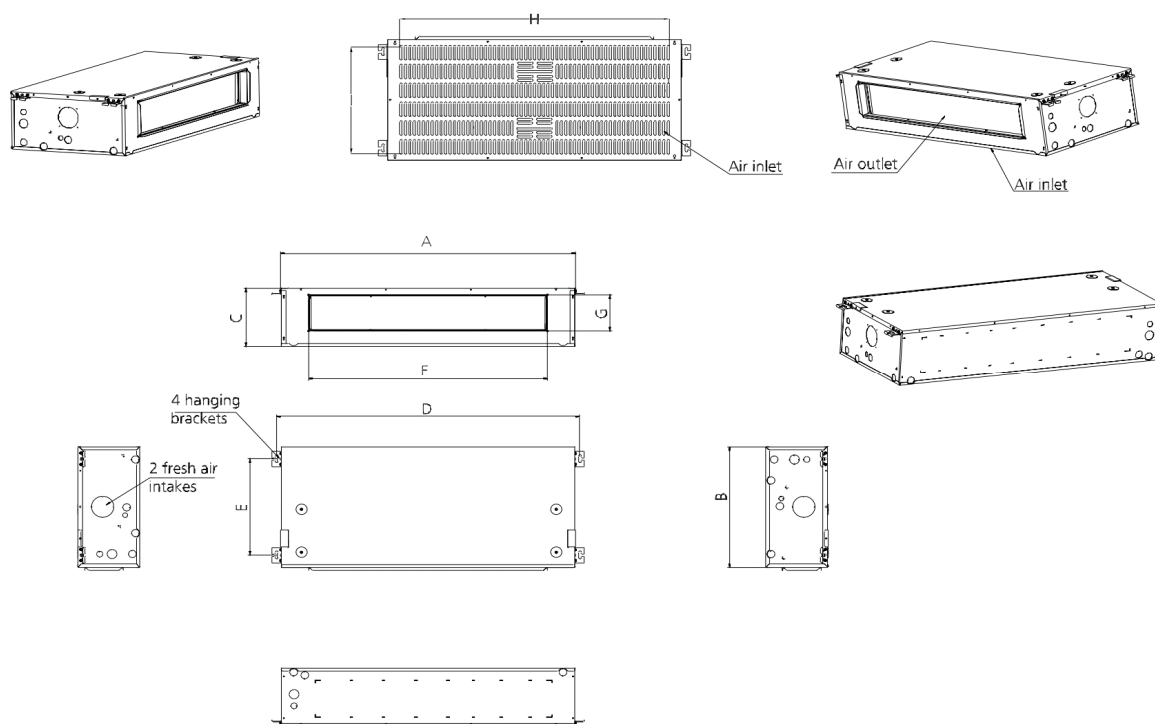
ELECTRICAL

Indoor Power Supply	115/208/230,60Hz,1Ph
Indoor MCA 115V/(208/230V)	115V:8A; 208/230V:6A
Indoor MOP	15
Outdoor Power Supply	115/208/230,60Hz,1Ph
Outdoor MCA	29.5
Outdoor MOP	30
Communication Wiring	AWG 20/2
Compressor RLA	22.4
Outdoor Fan Motor RLA	1.5
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	115V:6.4A 208/230V:4.5A
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	2,727(800 ~ 3,650)
System Power Input @ Heating (W)	2,656(690 ~ 3,400)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

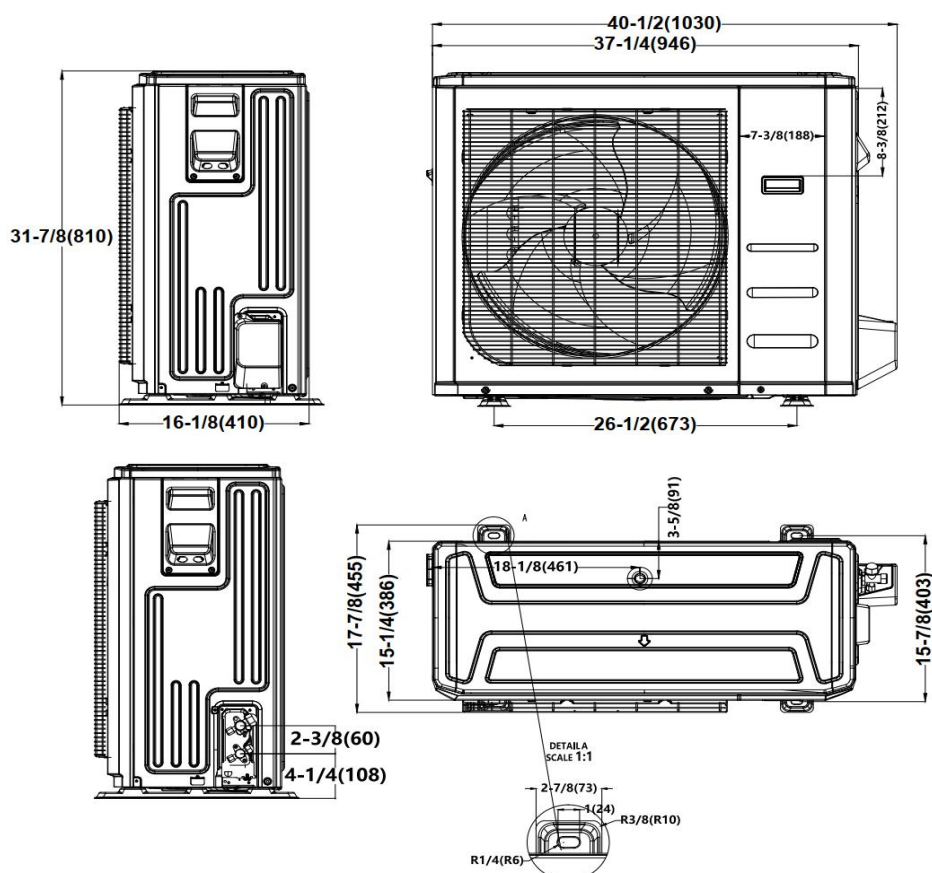
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	105.82(3)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

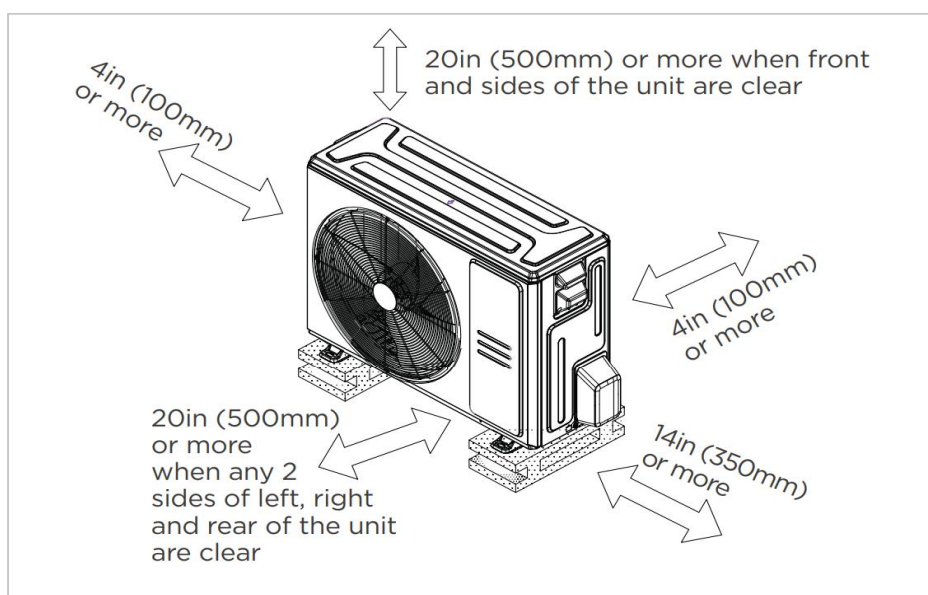


Dimensions		Model	18k	24k	30k/	36k
			inch(mm)	inch(mm)	inch(mm)	inch(mm)
Outline Dimension	A	Model Model	39-15/16 (1015)	45-7/8 (1165)	51-15/16 (1320)	58-7/8 (1495)
	B	Model Width	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)
	C	Model Height	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)
Size Of Mounted Lug	D	Mounted Lug Length	41-5/8 (1057)	47-1/2 (1207)	53-5/8 (1362)	60-1/2 (1537)
	E	Mounted Lug Width	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)
Air Outlet Opening Size	F	Air Outlet Length	30-5/16 (769)	36-3/16 (919)	42-5/16 (1074)	49-3/16 (1249)
	G	Air Outlet Width	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)
Air Return Opening Size	H	Air Return Length	38-3/8 (975)	44-5/16 (1125)	50-3/8 (1280)	57-1/4 (1455)
	I	Air Return Width	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)

Outdoor Unit Dimension



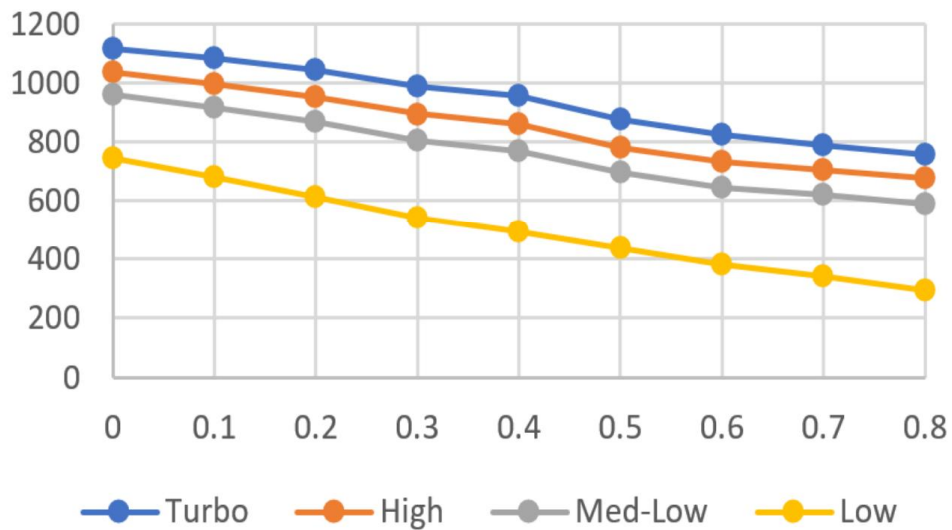
Installation Instruction For Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan Performance For Indoor Unit

30K



Features

- High efficiency up to 16.8 SEER2, 12 EER2, 10.5 HSPF2
- Aluminum Coil
- IDU compatible with 115V and 230V
- Constantly Air Flow system up to 0.80 in.W.G
- Optional Auxiliary heat kit up to 10kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:AWC-4
 - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control wiring method on 24V and RS485
- Downward or Backward (optional) air inlet
- Chassis heater and crankcase heater equipped as standard