

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)	1189.0 / 1083.0 / 971.2 / 865.2 / N/A	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	N/A/47.0/42.0/31.0/N/A	
Dimension (W×D×H)	inch	21.02 x 21.02 x 49.02
	mm	534.0×534.0×1245.0
Package (W×D×H)	inch	26.57 x 24.41 x 52.56
	mm	675×620×1335
Net/Gross Weight	lbs	127.87/152.78
	kg	58/69.3

OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KTF310D43UMT	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	1000	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2413.3	
Outdoor Noise Level (dBA)	62.5	
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946.0×410.0×810.0
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	152.34/162.48
	kg	69.1/73.7

EFFICIENCY

Cooling		Heating	
SEER2	15.8	HSPF2-4	9.3
EER2	9	COP	3.36

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	8900~38200
Moisture Removal(L/h)	3.93
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	38000
1. @ 47°F Min/Max Capacity	6400~43000
2. @ 17°F Rated	25000
3. @ 5°F Rated: Capacity / COP	24200/1.91
3. @ 5°F Max: Capacity	24200
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

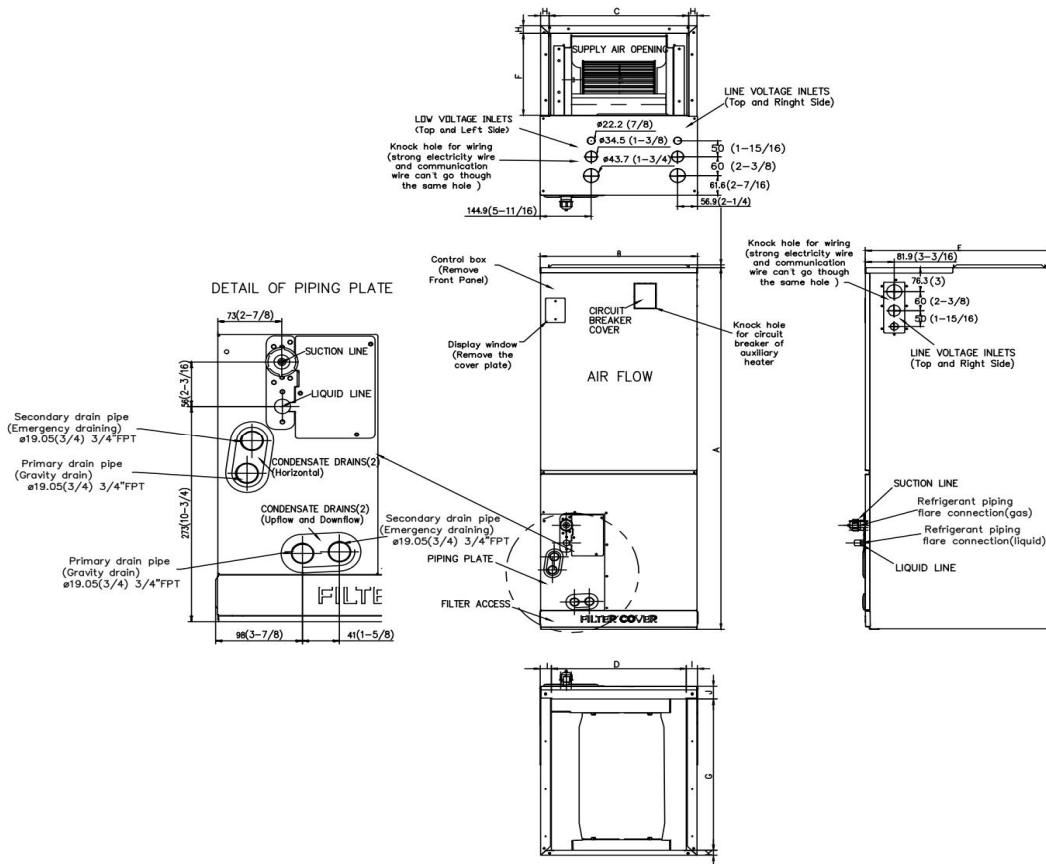
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	33
Communication Wiring	AWG 20-2
System MOCP	35
Compressor RLA	21.5
Outdoor Fan Motor RLA	1.4
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	4.5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	4002(770 ~ 4320)
System Power Input @ Heating (W)	3312(435 ~3780)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

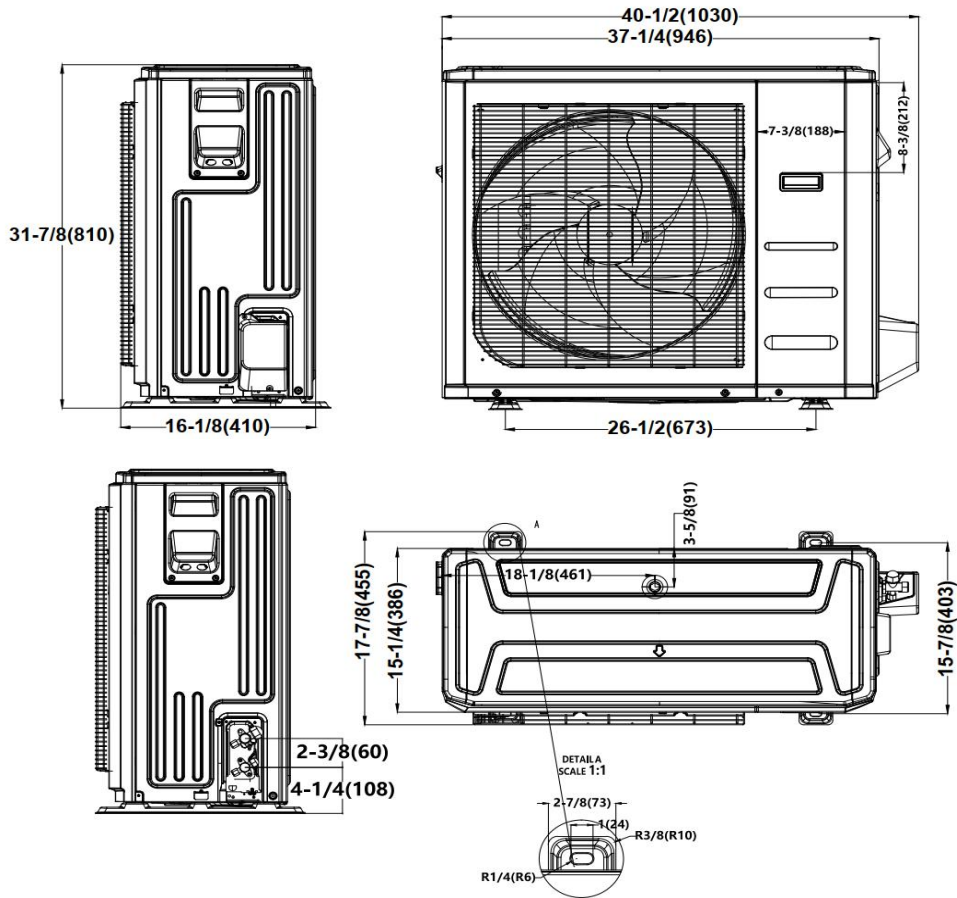
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98.4(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	91.71(2.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

Indoor Unit Dimension

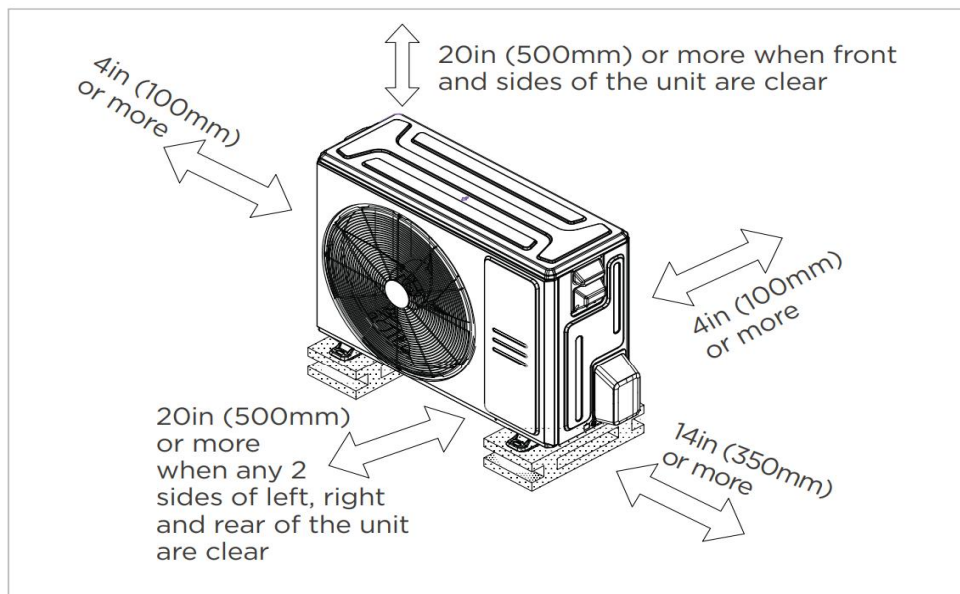


Dimensions	Model	18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476	18-3/4	476
H	Supply Air Opening Clearance	15/16	24	15/16	24	15/16	24
I	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32	1-1/8	28
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16	3/4	19

Outdoor Unit Dimension

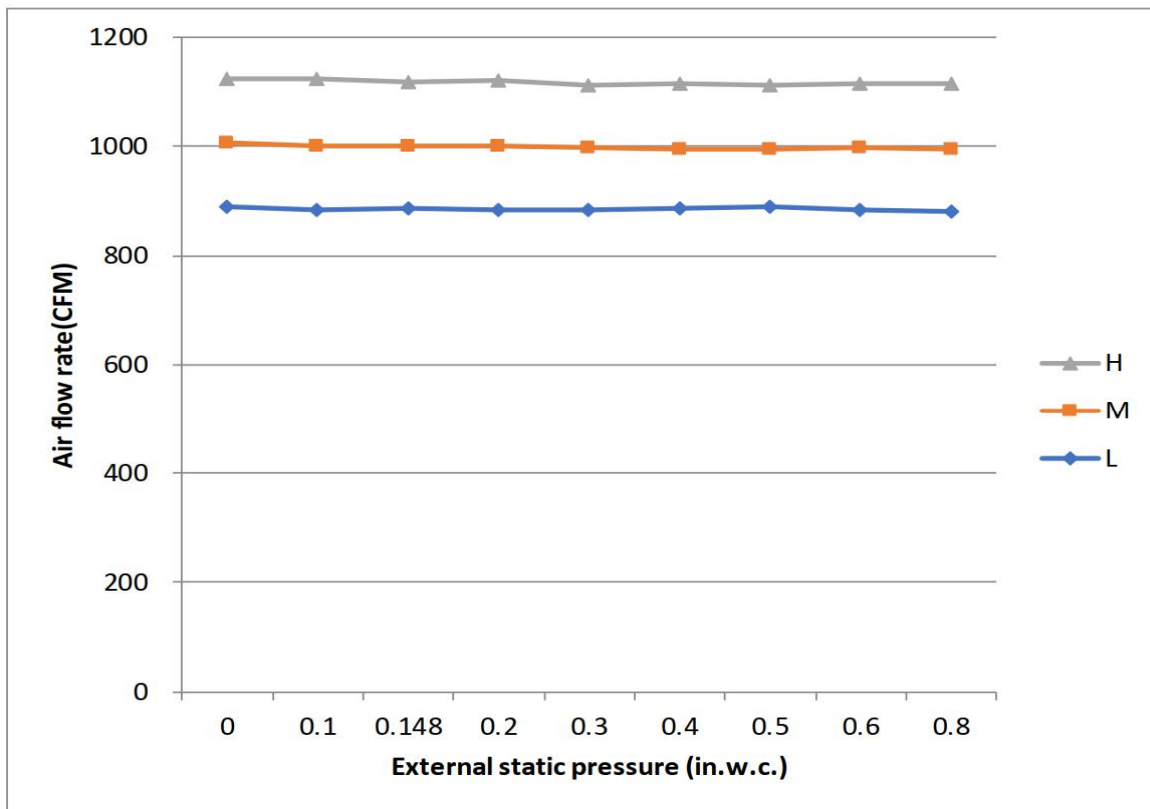


Installation Instruction



Meets all spatial requirements shown in Installation Clearance Requirements above.

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 with built-in WiFi:AWC-8P-LC-WIFI
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Chassis heater and crankcase heater equipped as standard