

Air Handler Heat Pump System

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


INDOOR SPECIFICATION

ESP(inWG)	0~0.8	
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	988.8 / 894.7 / 806.4 / 712.2 / N\A	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	50.5/50/48/36/N\A	
Dimension (W×D×H)	inch	22.01 x 19.02 x 40.04
	mm	559×483×1017
Package (W×D×H)	inch	24.61 x 22.83 x 46.97
	mm	625×580×1193
Net/Gross Weight	lbs	110.23/131.39
	kg	50/59.6

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTF250D22UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		670
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		3001.9
Outdoor Noise Level (dBA)		61
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 19.69 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	141.76/152.34
	kg	64.3/69.1

EFFICIENCY

Cooling		Heating	
SEER2	18.6	HSPF2-4	8.7
EER2	11	COP	3.5

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	30000
Min/Max Capacity	10100~34400
Moisture Removal(L/h)	2.99
Standard Operating Range(°F/°C)	-25~-50(-25~-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	31000
2. @ 47°F Min/Max Capacity	6500~31900
3. @ 17°F Rated	18200
4. @ 5°F Rated: Capacity / COP	18700/1.99
5. @ 5°F Max: Capacity	18700
Standard Operating Range(°F/°C)	-25~-24(-25~-24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°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

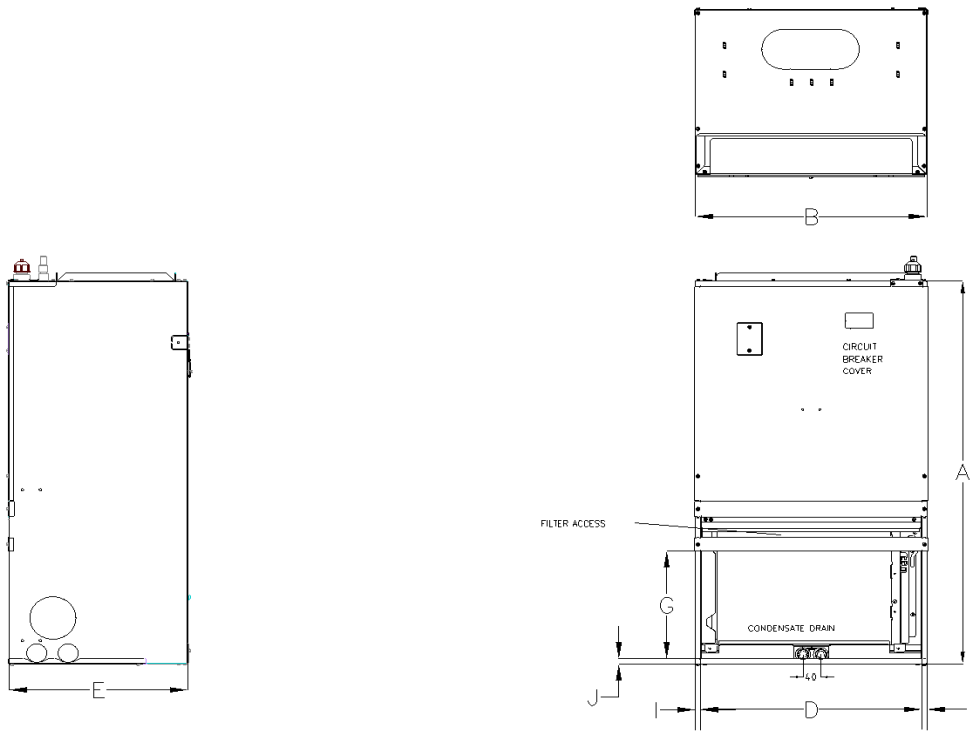
ELECTRICAL

Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	6
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	22.5
Outdoor MOP	25
Communication Wiring	AWG 20-2
Compressor RLA	17
Outdoor Fan Motor RLA	1.1
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	4.5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	2727(670 ~ 3130)
System Power Input @ Heating (W)	2596(400 ~2550)
MCA: Min. circuit amps (A)	MOCB: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

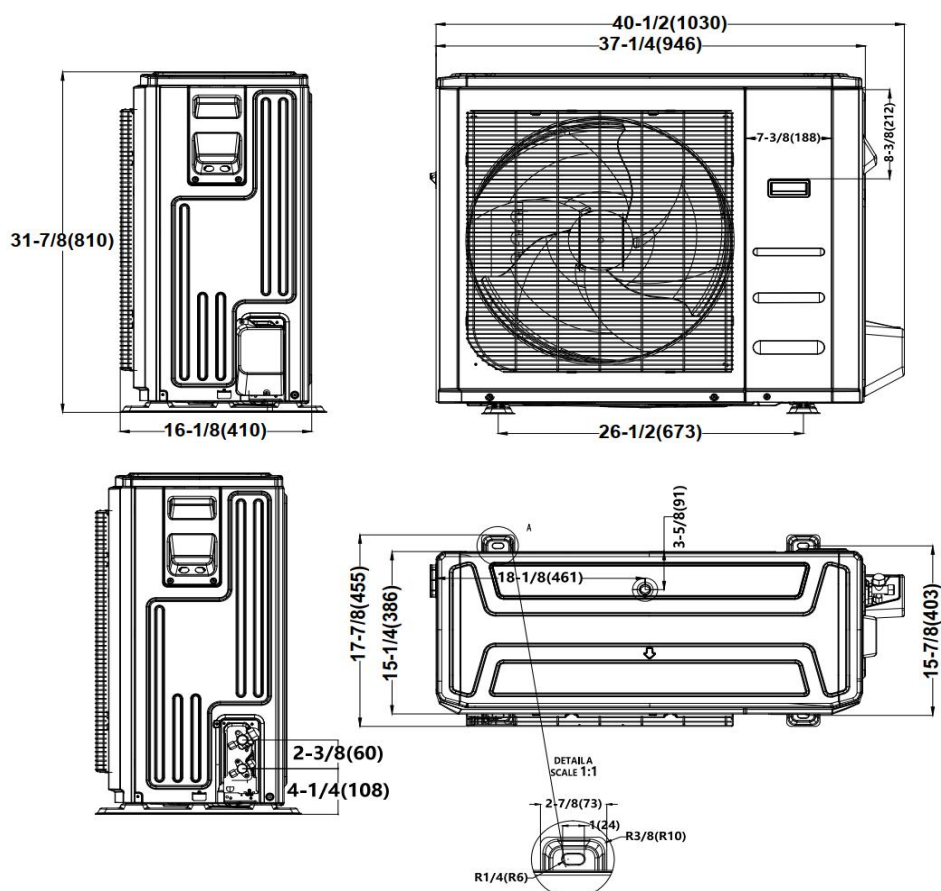
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	91.71(2.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

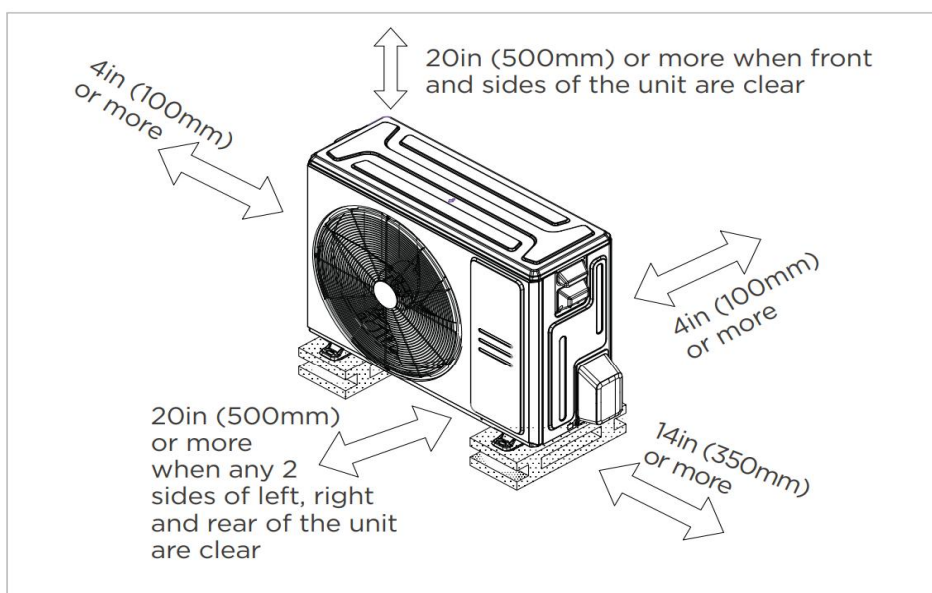


Dimensions		Model(Btu/h)		18K/24K		30K/36K	
				inch	mm	inch	mm
A	Model Height			36.5	928	49	1017
B	Model Width			20.3	515	21	559
C	Supply Air Opening Width			17.4	442	18.8	478.6
D	Return Air Opening Width			19.4	493.8	21.2	537.8
E	Model Depth			15.7	399	21	483
F	Supply Air Opening Depth			10.4	265.2	9.3	235.4
G	Return Air Opening Depth			10.3	261	13.1	332.5
H	Supply Air Opening Clearance			1.1	29.1	1.6	41
I	Return Air Opening Side Clearance			0.42	10.6	0.42	10.6
J	Return Air Opening Front Clearance			0.47	12	0.63	16

Outdoor Unit Dimension



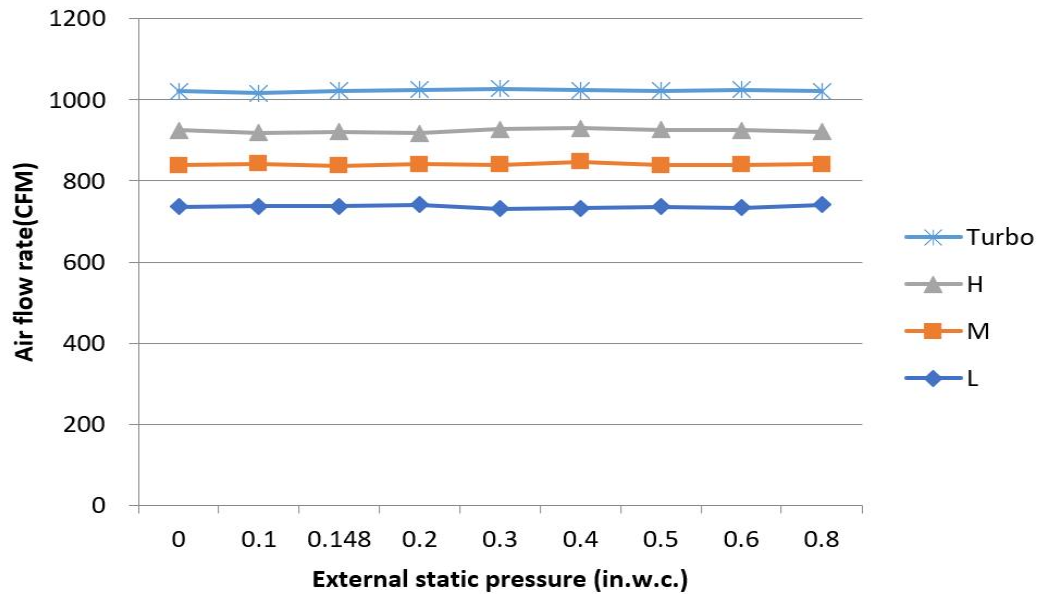
Installation Instruction For Outdoor Unit



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan Performance For Indoor Unit

30K



Features

- Multi-position of return air: front(factory standard) or bottom
- Aluminum Coil
- 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
- High efficiency up to 18.5 SEER2, 11.5 EER2, 9.4 HSPF2
- Chassis heater and crankcase heater equipped as standard