

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

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)		N/A/44/41/26/N/A
Dimension (WxDxH)	inch	21.02 x 21.02 x 49.02
	mm	534.0x534.0x1245.0
Package (WxDxH)	inch	26.57 x 24.41 x 52.56
	mm	675x620x1335
Net/Gross Weight	lbs	127.43/151.68
	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 (WxDxH)	inch	37.24 x 16.14 x 31.89
	mm	946.0x410.0x810.0
Package (WxDxH)	inch	42.91 x 19.68 x 34.84
	mm	1090x500x885
Net/Gross Weight	lbs	142.86/154.54
	kg	64.8/70.1

EFFICIENCY

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

PERFORMANCE of Cooling

Cooling (Btu/h)	
Rated Capacity	30000
Min/Max Capacity	9200~34000
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

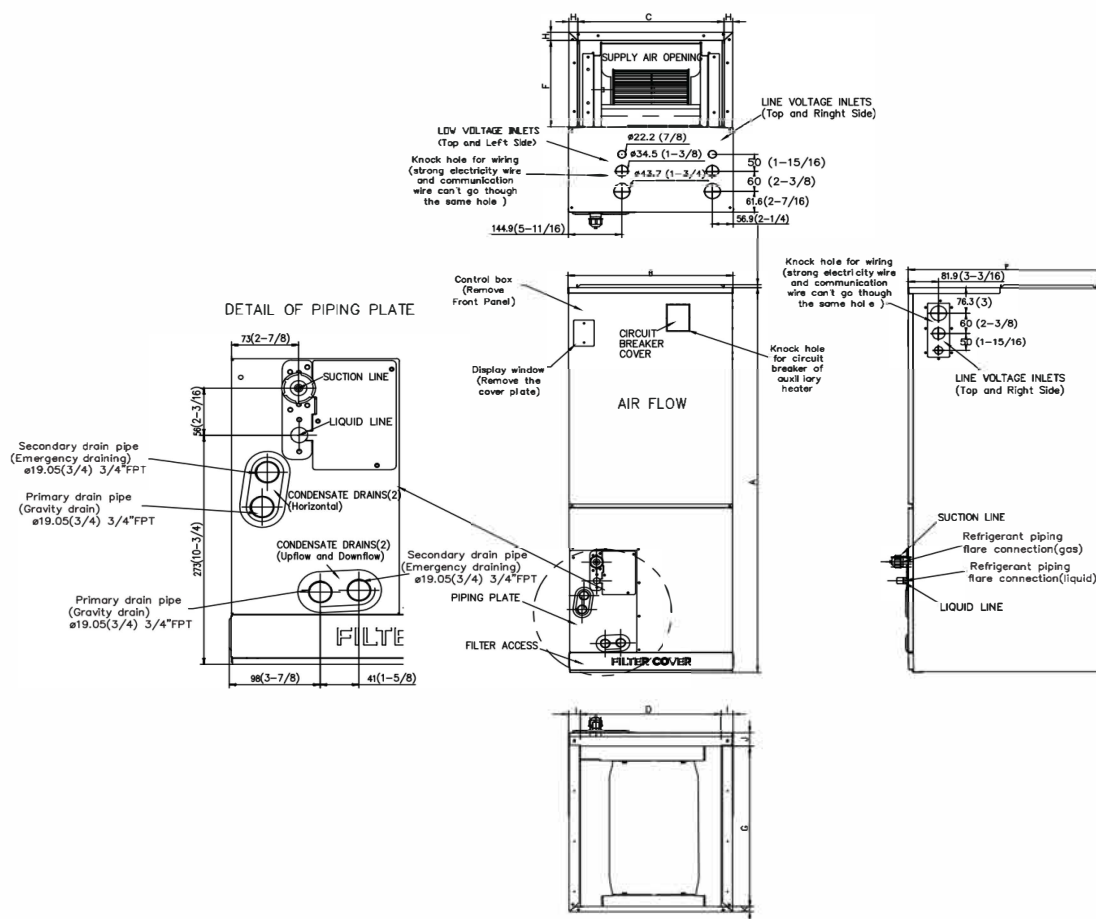
Heating (Btu/hr)	
1. @ 47°F Rated	30000
1. @ 47°F Min/Max Capacity	8500~33000
2. @ 17°F Rated	19400
3. @ 5°F Rated: Capacity / COP	20400/2.1
3. @ 5°F Max: Capacity	20400
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 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
Connection Wiring	AWG 14-4
System MOCP	30
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)	2730(300 ~ 3400)
System Power Input @ Heating (W)	2440(370 ~ 2700)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

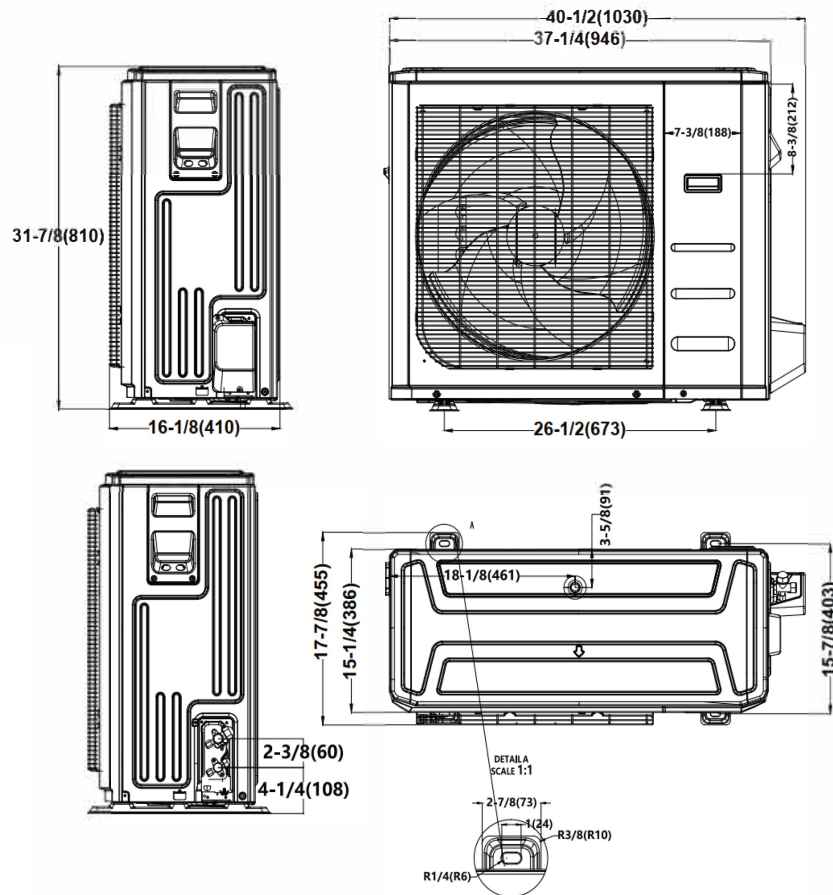
PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Capillary
Liquid Size	9.52mm(3/8in)
Gas Size	15.9mm(5/8in)
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)	84.66(2.4)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.32(30)
Connection Method	Flared

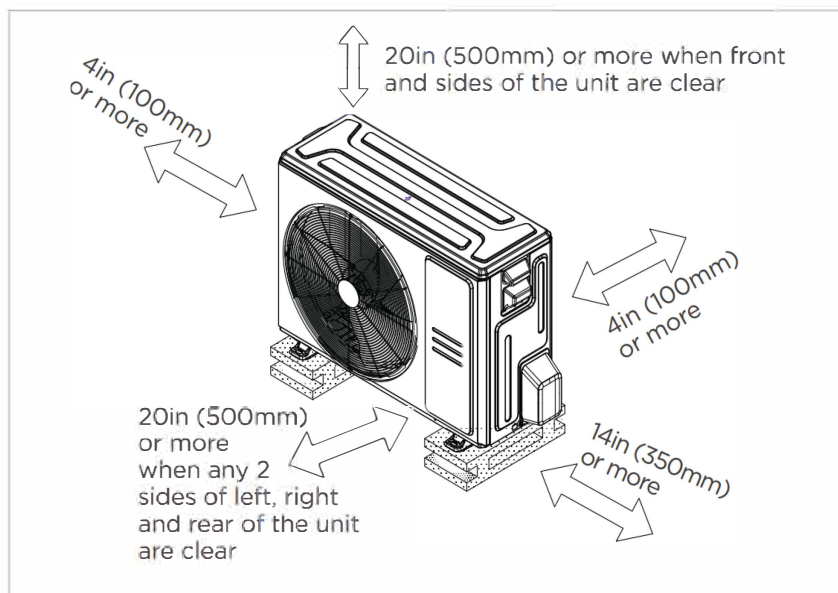


Dimensions	Model	18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	21	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

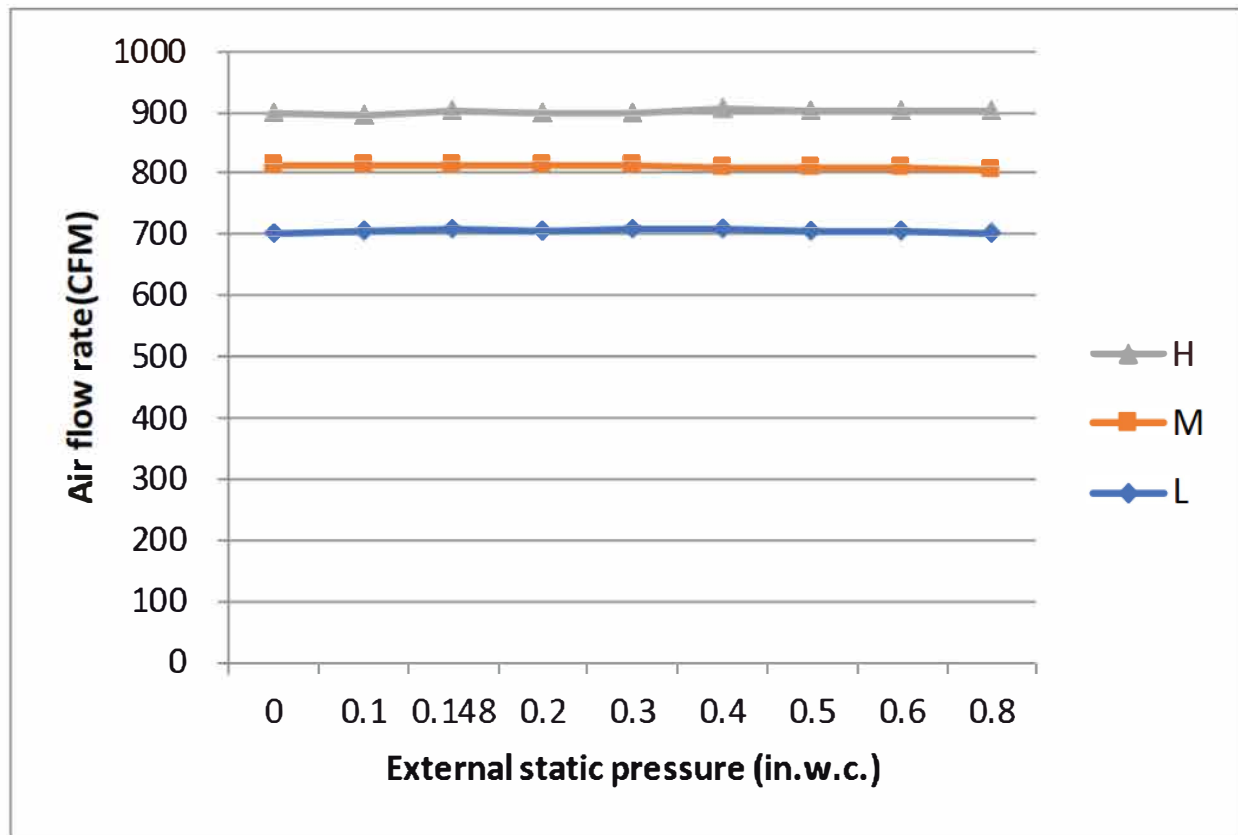
Outdoor Unit Dimension



Installation Instruction



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



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