



SUBMITTAL DATA

VHP24DA-1

Slim Duct 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)		853.5 / 706.3 / 618.0 / 500.3 / N/A	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N/A/40.0/37.0/35/29.5	
Indoor static pressure range(in w.g.)		0-0.8	
Dimension (W×D×H)	inch	39.37 x 29.53 x 9.65	
	mm	1000.0×750.0×245.0	
Package (W×D×H)	inch	48.23 x 33.86 x 11.97	
	mm	1225×860×304	
Net/Gross Weight	lbs	80.47/91.93	
	kg	36.5/41.7	

OUTDOOR SPECIFICATION			
Compressor Type		ROTARY	
Compressor Model		KTM240D46UKT2	
Refrigerant		R454B	
Refrigerant Oil Charge(mL)		620	
Refrigerant Oil		4.15/9.30	
Outdoor Air Flow (Max) (CFM)		2236.7	
Outdoor Noise Level (dBA)		61.0	
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	130.29/141.31	
	kg	59.1/64.1	

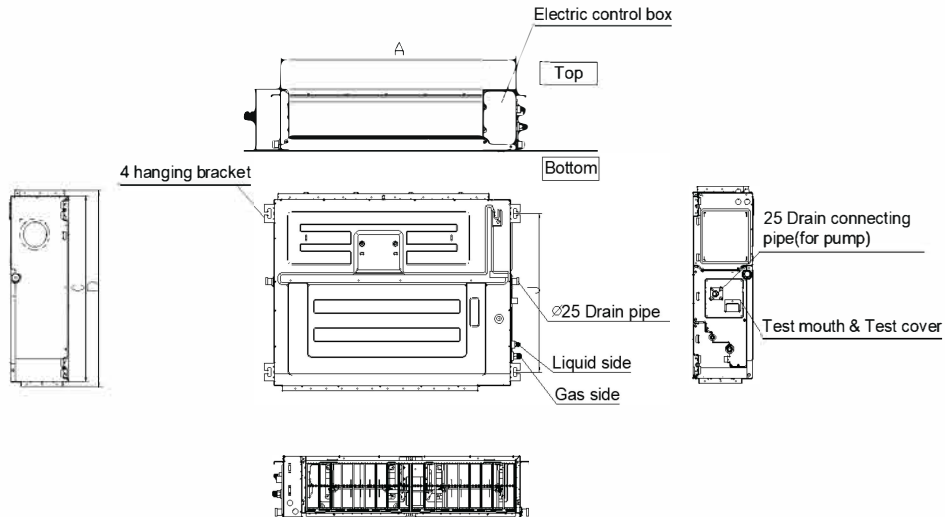
EFFICIENCY			
Cooling		Heating	
SEER2	19	HSPF2-4	11.7
EER2	12.0	COP	3.81

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	5000~28000
Moisture Removal(L/h)	2.03
Standard Operating Range(°F/°C)	-22~122(-30~50)
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	26000
1. @ 47°F Min/Max Capacity	7300~31400
2. @ 17°F Rated	21600
3. @ 5°F Rated: Capacity / COP	24000/2.18
3. @ 5°F Max: Capacity	24000
Standard Operating Range(°F/°C)	-22~75(-30~24)
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	24.90
Connection Wiring	14#x4
System MOCP	25
Compressor RLA	15.0
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	2.2
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	2000(870 ~ 2410)
System Power Input @ Heating (W)	2000(440 ~2480)
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	15.9mm(5/8in)
Max. Piping Length(ft/m)	164.00(50)
Max. Height Difference(ft/m)	82.00(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	63.49(1.80)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared



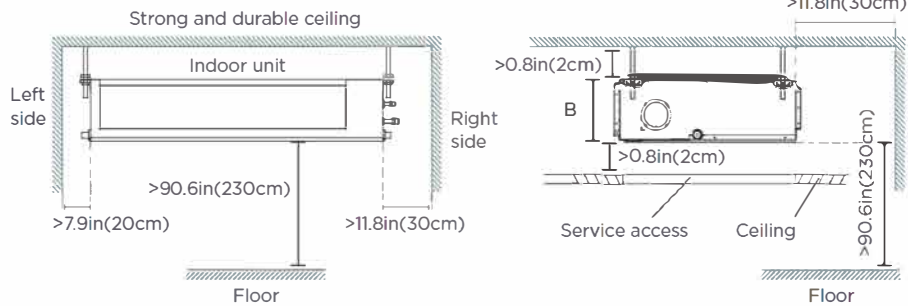
MODEL	A	B	C	D
9K	27-1/2in(700mm)	7-7/8in(200mm)	17-3/4(450mm)	20in(506mm)
12K	27-1/2in(700mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)
18K~24K	39-3/8in(1000mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)
36K~48K	47-1/8in(1200mm)	11-7/8in(300mm)	29-1/2(750mm)	31-1/4in(795mm)
60K	55-1/8in(1400mm)	15in(380mm)	31-1/2in(800mm)	33-1/4in(845mm)

Installation Instruction

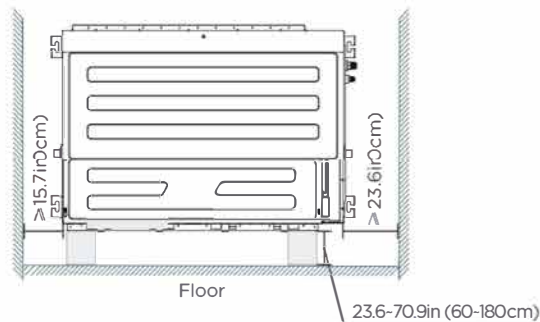
Installation place

The distance between the mounted indoor unit should meet the specifications illustrated in the following diagram.

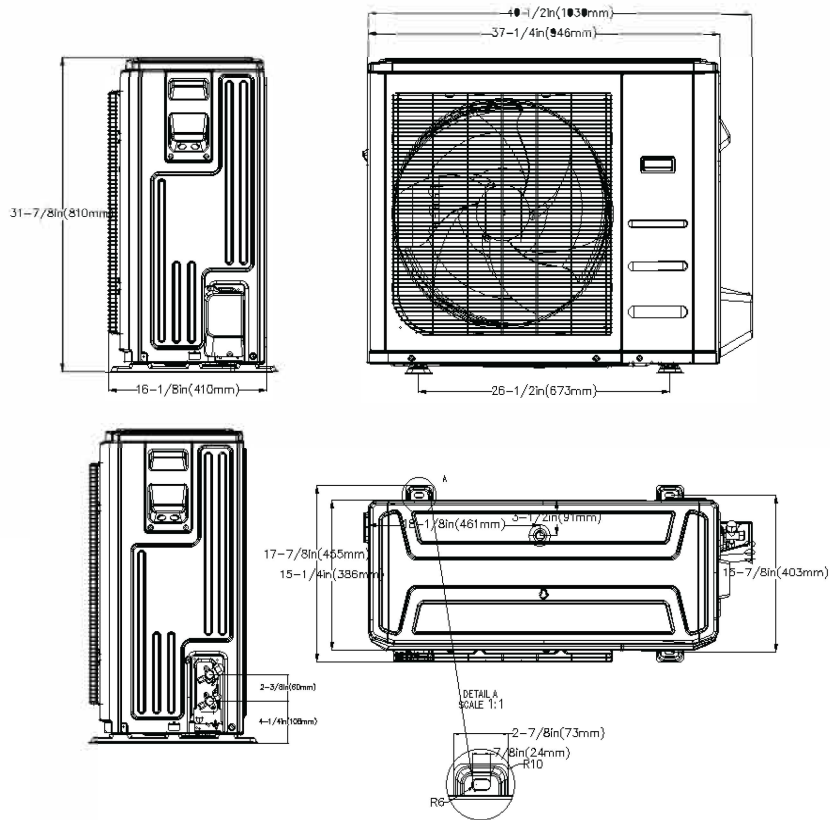
1) Ceiling-mounted



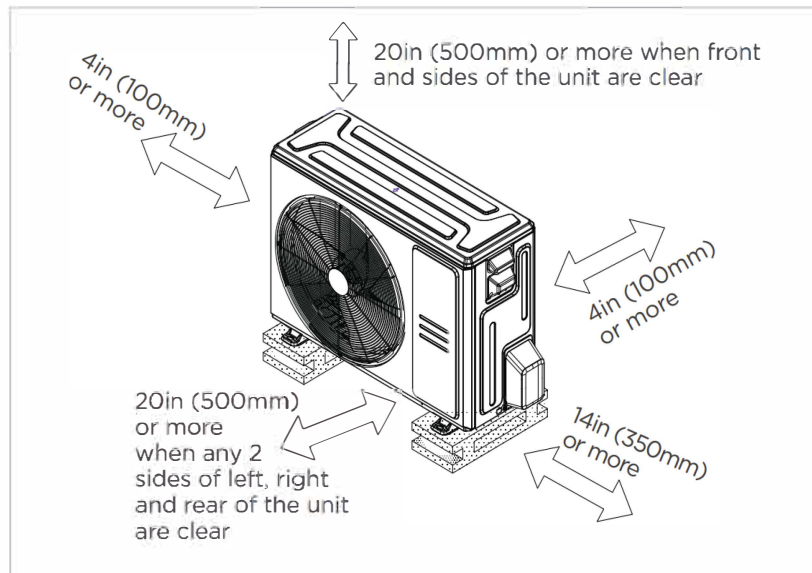
2) Wall-mounted



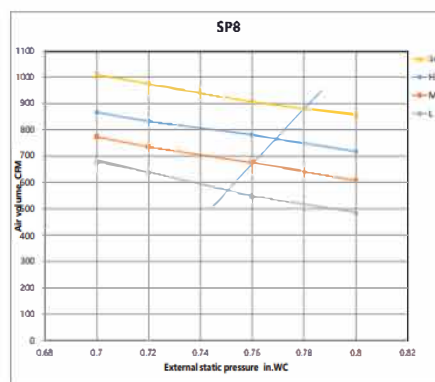
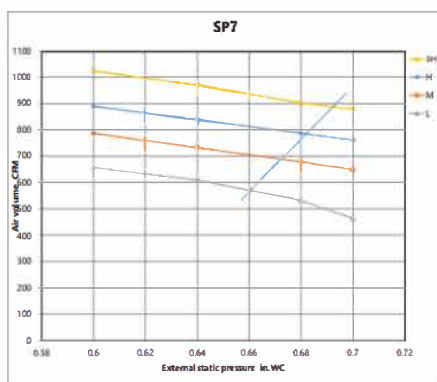
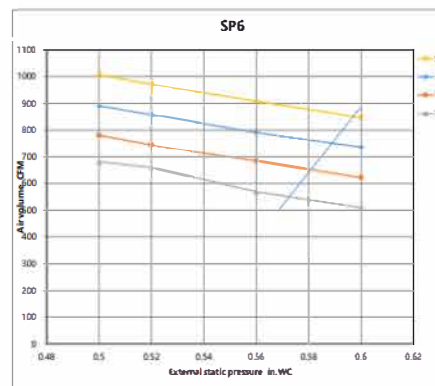
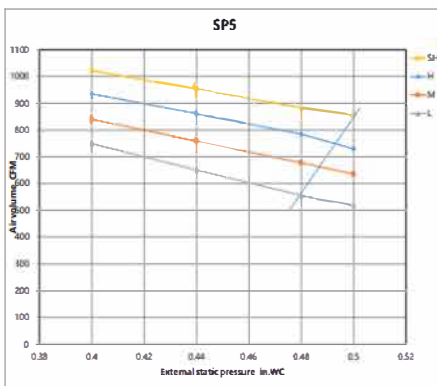
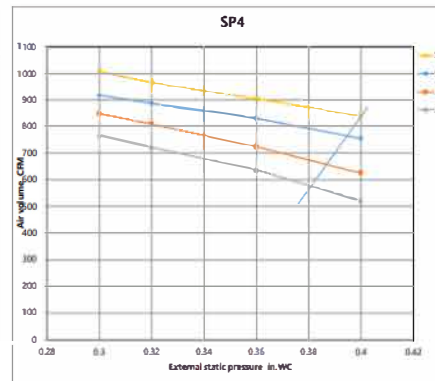
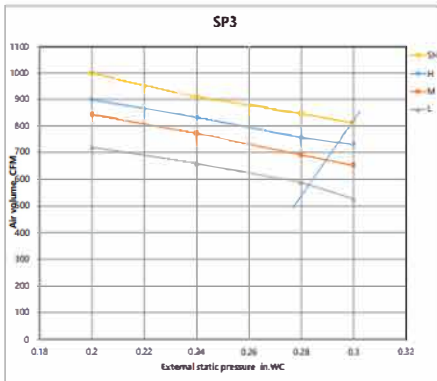
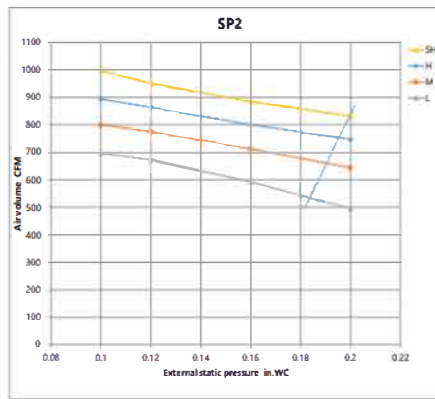
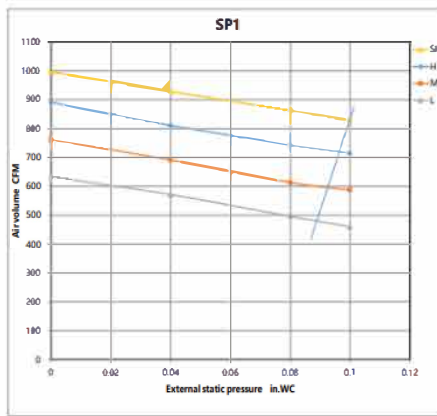
Outdoor Unit Dimension



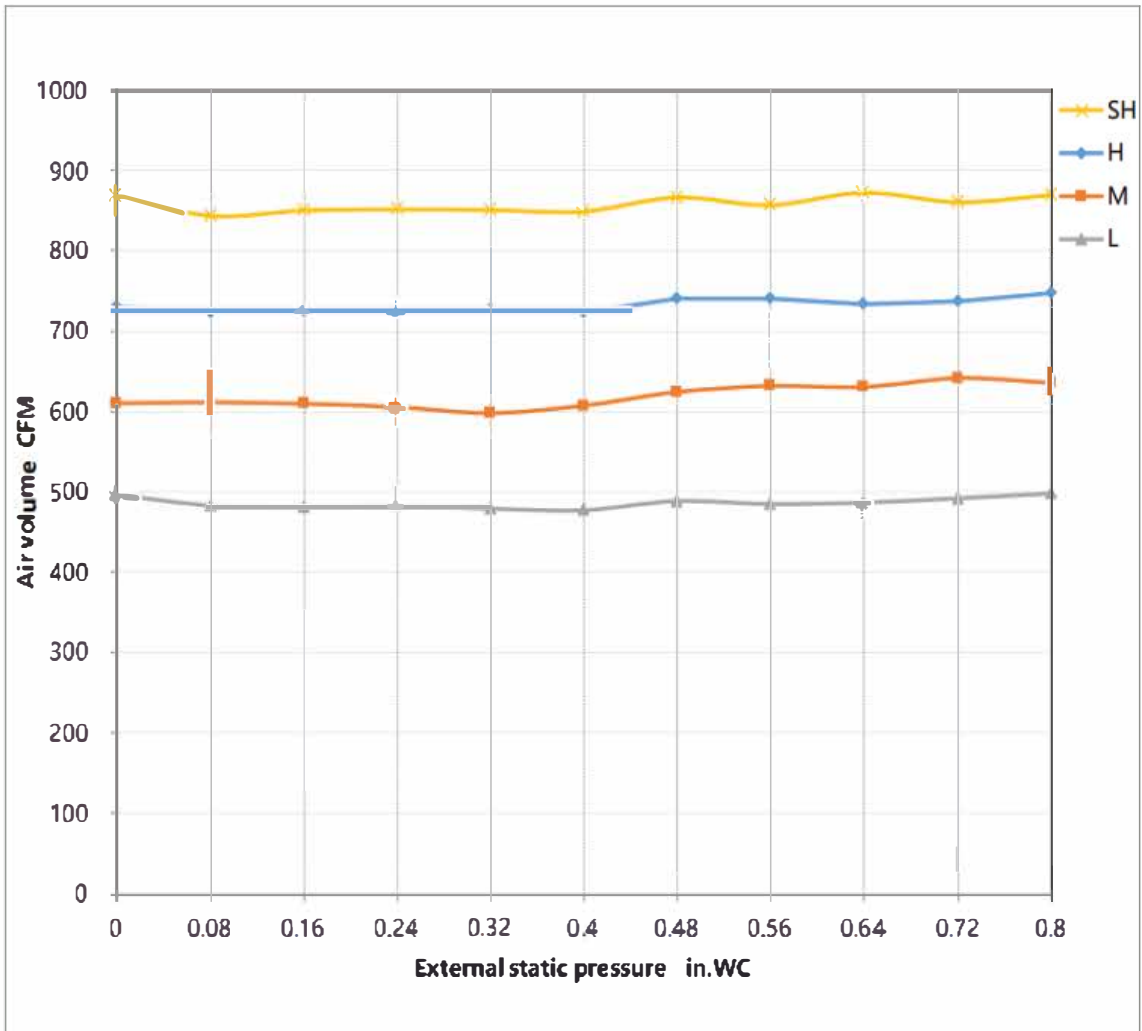
Installation Instruction



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



Constant air volume



FEATURES

- Compatible with both horizontal and vertical installation
- Static pressure up to 0.8 in.w.g(for all models)
- Static pressure setting stages: 8
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through wired controller with built-in WiFi
- OTA(by using wired controller 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*

*24V interface is required.