



SUBMITTAL DATA

VHP09DA-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)	344.3 / 288.4 / 230.7 / 200.7 / 121.8
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	N/A/29.5/28.5/27.5/26.0
Indoor static pressure range(in.w.g.)	0-0.8
Dimension (WxDxH)	inch 27.56 x 29.53 x 9.65
	mm 700.0x750.0x245.0
Package (WxDxH)	inch 36.42 x 33.46 x 11.73
	mm 925x850x298
Net/Gross Weight	lbs 64.15/73.85
	kg 29.1/33.5

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTN110D42UFZ
Refrigerant	R454B
Refrigerant Oil Charge(mL)	350
Refrigerant Oil	6.0
Outdoor Air Flow (Max) (CFM)	1471.5
Outdoor Noise Level (dBA)	54.0
Dimension (WxDxH)	inch 31.69 x 12.99 x 21.81
	mm 805.0x330.0x554.0
Package (WxDxH)	inch 36.02 x 14.57 x 24.21
	mm 915x370x615
Net/Gross Weight	lbs 72.75/78.70
	kg 33/35.7

EFFICIENCY

Cooling		Heating	
SEER2	20.5	HSPF2-4	13.8
EER2	14.0	COP	3.88

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	9000
Min/Max Capacity	3000~13100
Moisture Removal(L/h)	0.69
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	9900
1. @ 47°F Min/Max Capacity	3900~16500
2. @ 17°F Rated	10200
3. @ 5°F Rated: Capacity / COP	11900/1.85
3. @ 5°F Max: Capacity	11900
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

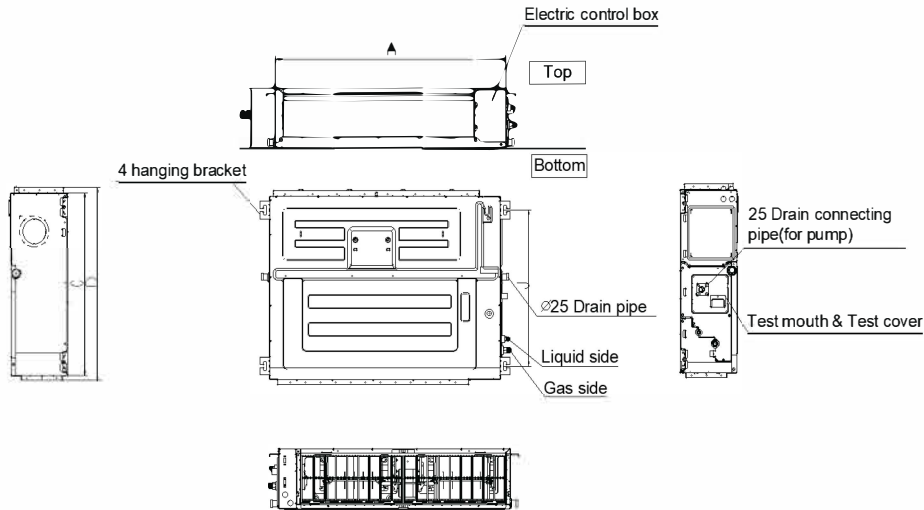
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	15.00
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	10.4
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	1.5
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	642(150 ~ 1260)
System Power Input @ Heating (W)	750(260 ~ 1420)
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
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	35.27(1.00)
Additional Charge of Refrigerant(oz/ft)(g/m)	0.16(15)
Connection Method	Flared

Indoor Unit Dimension



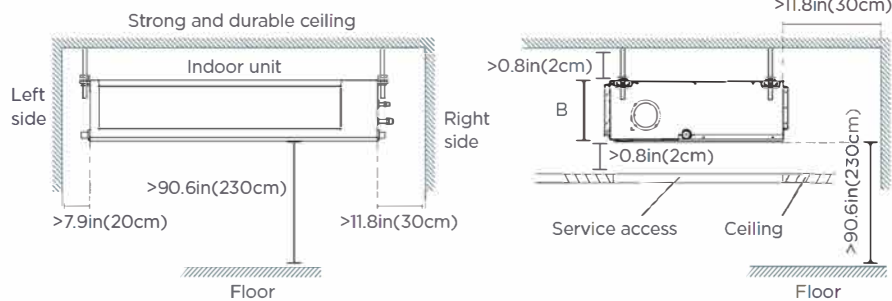
MODEL	A	B	C	D
9K	27-1/2in(700mm)	7-7/8in(200mm)	17-3/4(450mm)	20in(506mm)
12K	27-1/2in(700mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)
18K~24K	39-3/8in(1000mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)
36K~48K	47-1/8in(1200mm)	11-7/8in(300mm)	29-1/2(750mm)	31-1/4in(795mm)
60K	55-1/8in(1400mm)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

Installation Instruction

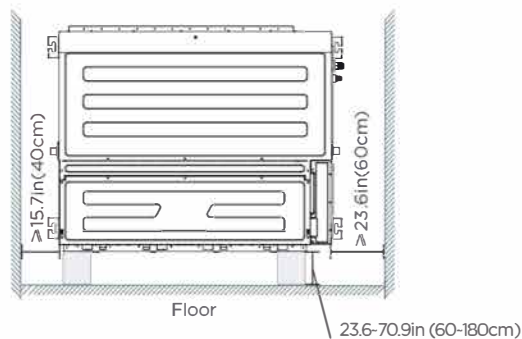
Installation place

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

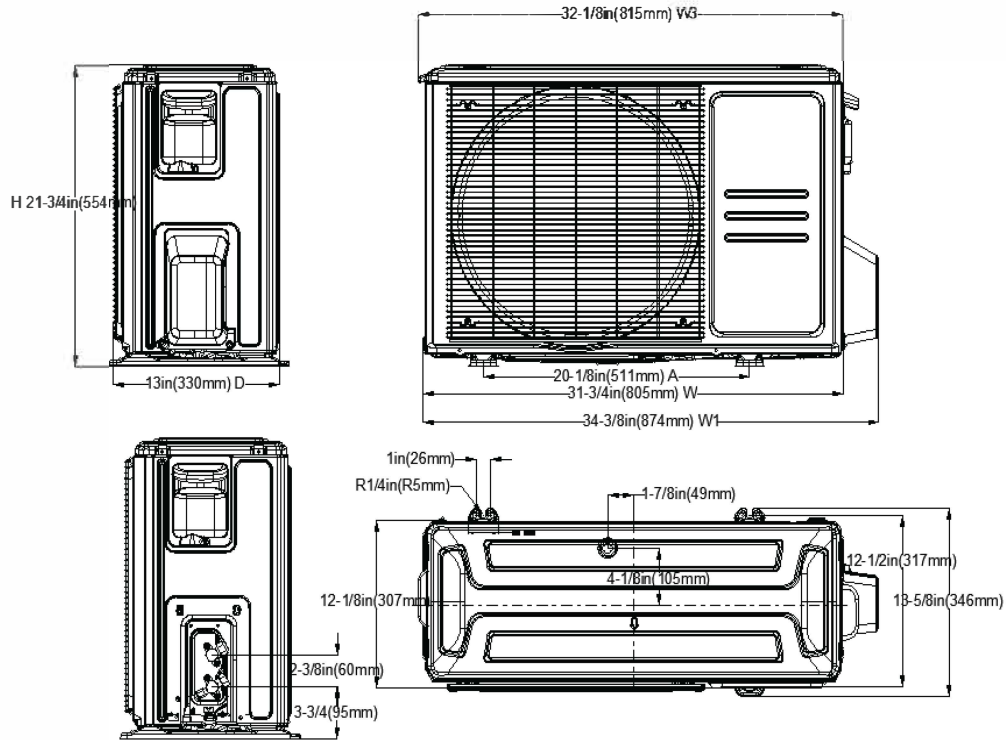
1) Ceiling-mounted



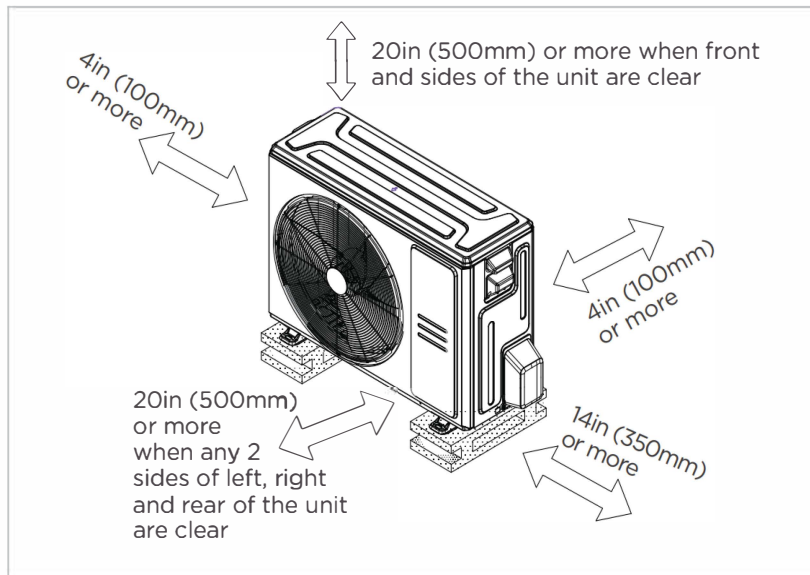
2) Wall-mounted



Outdoor Unit Dimension

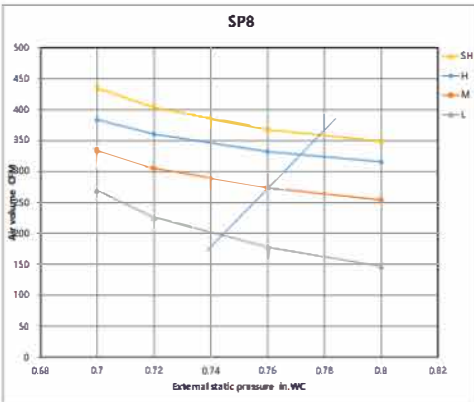
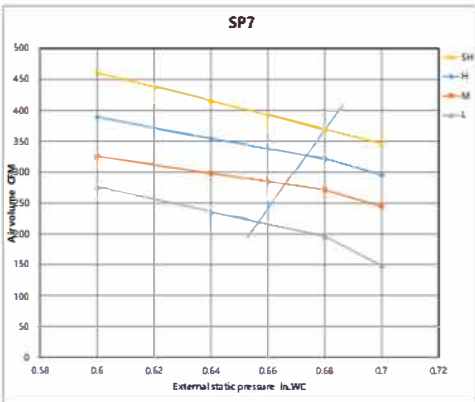
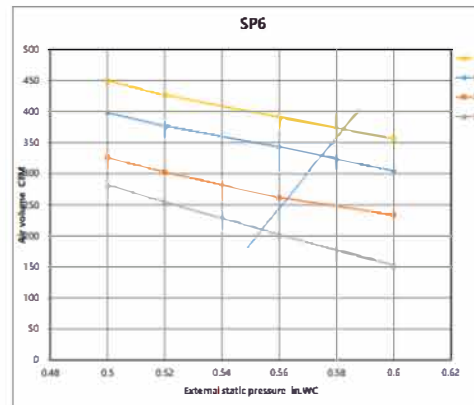
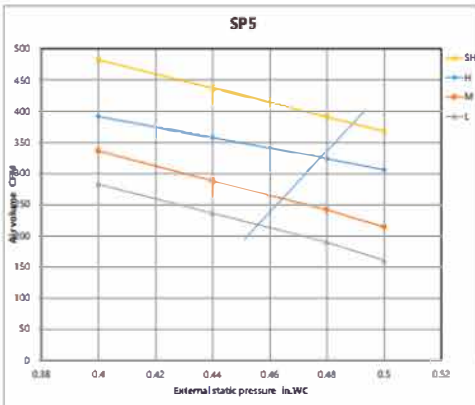
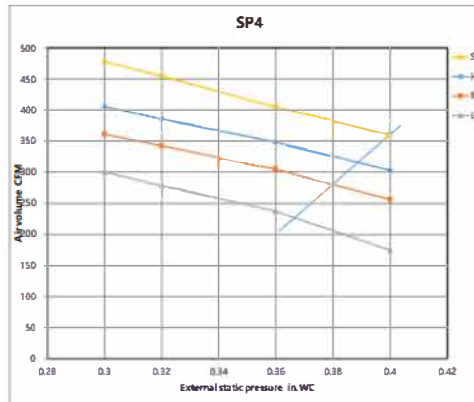
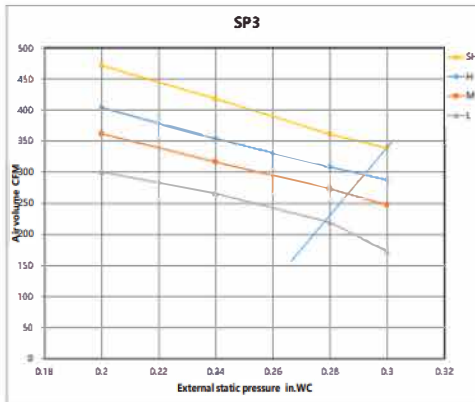
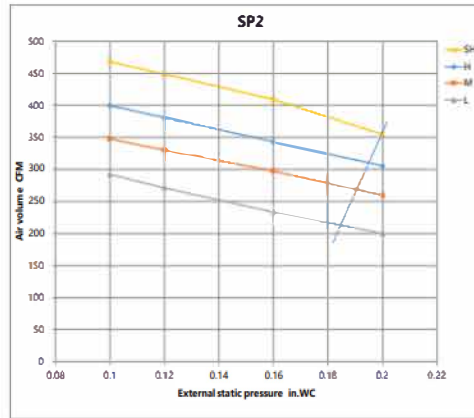
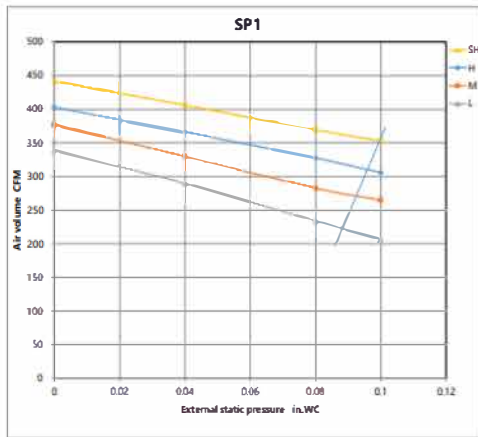


Installation Instruction

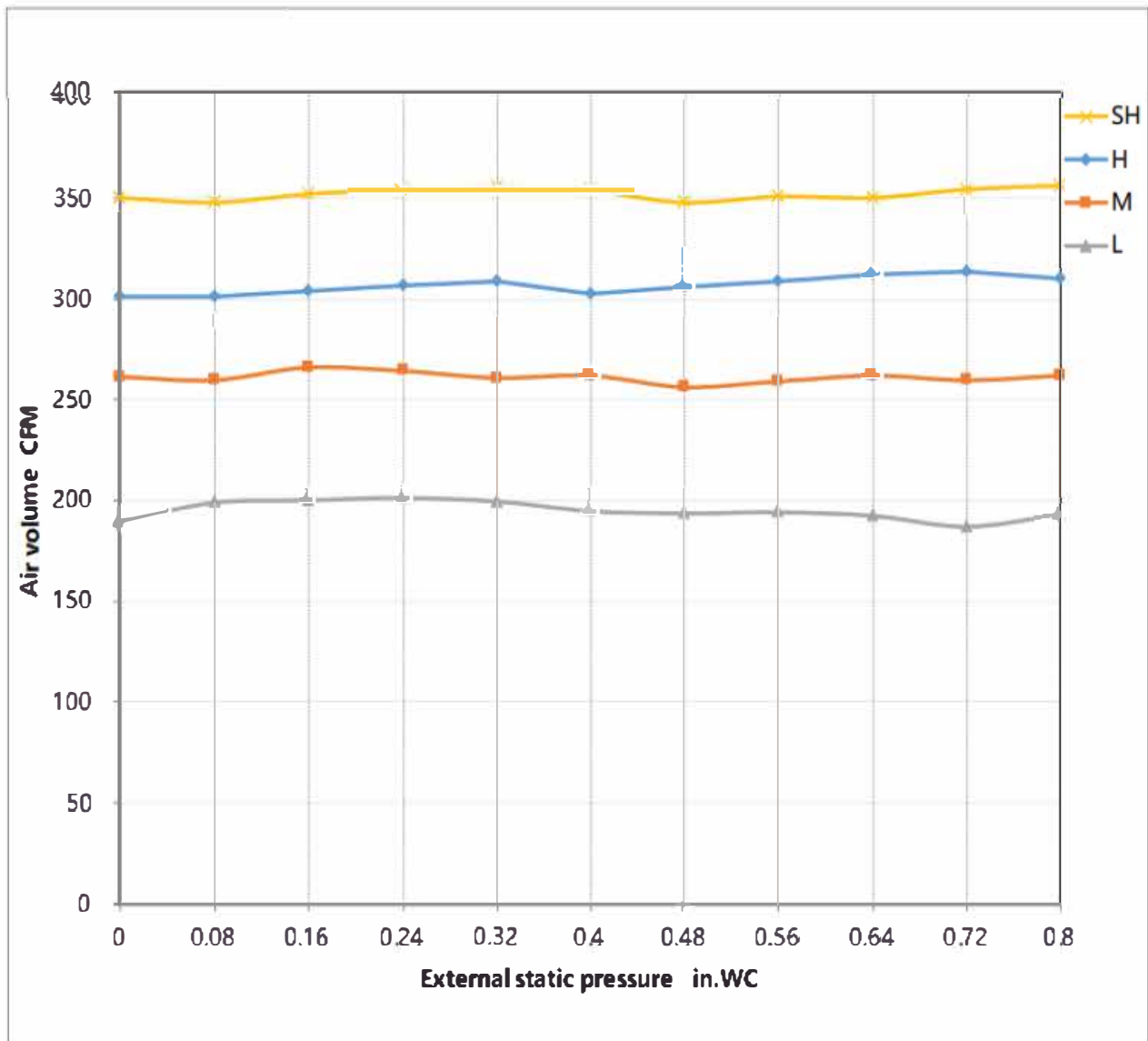


- ✓ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan performance



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.