



Characteristics:

- 1) Tube in tube titanium heat exchanger or titanium tube in PVC shell heat exchanger.
- 2) American Copeland compressor; Safe, Reliably, Stable running & durable.
- 3) Japan Saginomya/ other brand four-way valve ; It is very efficient in defrosting in low ambient temp
- 4) Japan Saginomya / other brand electronic expansion valve; Making sure the best velocity of flow. It can regulate automatically from 0 to 500 rank that make the system to run in a stable state and reduce trouble
- 5) Green & Environment-friendly Refrigerant ;
- 6) Strong Cabinet; Standard unit fabrication consists of heavy gage galvanized sheet metal cabinet construction that provides maximum strength.
- 7) Full Consideration for Noise Control; Compressor rubber feet specially selected for reducing vibration. Specially, compressor sound jacket available to reduce noise
- 8) Unique super energy saving controlling system can save extra 10% energy than other units in market.
- 9) Reliable Design and Strict Quality Control; All products 100% are tested and run at the factory to assure proper operation of all components and safety switches.

TECHNICAL SPECIFICATION

Model		VSP-010SP	VSP-015SP	VSP-020SP	VSP-030SP
Heating Capacity	kW	4.5	7	9	13.5
	Btu/h	15360	23893	30720	46080
COP		5.62	5.38	5.62	5.62
Rated outlet water temp.	°C	45 °C			
Max outlet water temp.	°C	50 °C			
Rated Input Power	kW	0.8	1.3	1.6	2.4
Rated Input Current	A	3.7	6	7.3	11
Power Supply		220V/1N50Hz			
Compressor	Type	Rotary			Scroll
	Make	Panasonic			Copeland USA
	Start Mode	Direct Start			
	Quantity (Nos)	1	1	1	1
Heat Exchanger	Type	Titanium in PPR / Titanium in stainless steel			
	Quantity (Nos)	1	1	1	1
Evaporator	Fin Type	Hydrophillic Aluminium			
	Tube Type	Inner Groove Tube			
Refrigerant	Throttle Type	Japan Saginomya Electronic expansion valve			
	Type	R417A/R410A/R407C			
Water Side	Cycle Flow (lpm)	1.7 ~ 2.5	2.2 ~ 3.3	2.9 ~ 4.4	3.5 ~ 5.2
	Pipe Size (mm)	Rc1-1/2(DN40)			
Fan	Type	Low noise high efficiency axial type			
	Input Power (W)	28	28	28	90
	Speed (rpm)	850			
	Direction	Horizontal			
	Quantity (Nos)	1	1	1	1
Protections		Under / Over voltage protection, Under /Over current protection, Open phase, Phase reversal, Phase imbalance, Compressor high discharge temperature protection, Compressor high discharge pressure protection, Compressor overload, Anti-Freeze protection.			
Noise DB(A)		≤48dB(A)		≤54dB(A)	
Net Weight		45	50	60	66
Cabinet		Stainless steel / Powder coated steel / Plastic			
Dimension	Length (mm)	1000	1000	1000	1110
	Width (mm)	365	365	365	470
	Height (mm)	560	560	560	680