



Mfg. By & Office:

SUN ZONE SOLAR SYSTEM INDIA PVT.LTD.,

# Sy no.60/3&4, Muneshwara Industrial

Layout, Puradapalya Village, Tavarekere Hobli

Bangalore-562130

Phone Number: 9164659666/9845213060

[www.sunzonesolar.in](http://www.sunzonesolar.in) / [www.orangesolar.co.in](http://www.orangesolar.co.in)

## TECHNICAL SPECIFICATIONS COMMERCIAL HEAT PUMP (19.3 KW)

This series heat pump is designed for supply hot water and floor heating of hotel, office building, factory, school, mining, hospital etc.

### Features :

- \* Famous Copeland compressor
- \* Famous Japan Saginomya four-way valve
- \* Famous Japan Saginomya EEV
- \* High efficiency tube in tube heat exchanger
- \* R22/R417A/R410A/R134A/R407C Refrigerant
- \* Automatic defrosting
- \* Intelligent controller
- \* Easy installation & maintenance
- \* Durable & stable running

### Specification

Model		VET-4.5-HP
Heating Capacity	kW	19.3
	Btu/h	65877
Rated heated water output	L/h	530
Rated outlet water temp.	°C	55
Max outlet water temp.	°C	60
Power		380V/3N/50Hz
Rated input power	kW	4.5

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Rated input current	A	9.0
Compressor type		Scroll*1
Compressor brand		Copeland
Throttle type		Electronic expansion valve (EEV)
Fan type		Low noise high efficiency axial type
Fan direction		Vertical
Fan No.		1
Fan Input power	W	250
Fan Speed	RPM	880
Evaporator fin type		Hydrophilic aluminum
Evaporator tube type		Inner groove tube
Heat exchanger type		High efficiency tube in tube/tub in shell heat exchanger
Heat exchanger No.		1
Controller type		Intelligent & LCD
Ambient Temperature	°C	(-10°C~+45°C)
Refrigerant type		R22/R417A/R410A/R134A/R407C
Low pressure protection		Yes
High pressure protection		Yes
Automatic defrosting system		Yes
Overload protection		Yes
Noise in 1 meter	dB(A)	58

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Water pipe size	mm	Rc1(DN25)
Water flow volume	m <sup>3</sup> / h	4.0
Cabinet		Stainless steel / powder coated steel
Unit Size	mm	855*775*1095
Packing Size	mm	910*910*1260
N. W	kg	140

\* Testing condition heating: Ambient temp. (DB/WB): 20°C/15°C, water temp. (Input/output): 15°C/55°C.

- Commercial heat pump COP at different ambient temperature

Ambient temp.(°C)	0	5	10	15	20	25	30	35	40	43
COP(water temp.15-55°C)	2.5	2.9	3.3	3.8	4.2	4.6	4.9	5.2	5.5	5.8

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