

Skyline Energy – Ecological Solutions

Solar Electricity, Solar Hot Water, Heat-Pumps, and Hydronic Heating

Model V50-3/V50-3ZA Heat Pump

Specifications

Model V50-3/V50-3ZA	3ph top discharge only
Voltage / Phase	380v 50Hz/ 3phase
Power input range	9kW – 12kW
Suitable floor area for slab heating	¹ Up to 500sqm approx..
Suitable floor area for panel heating	¹ Up to 400sqm approx..
Working air temp range	-19°C - +45°C
Compressor (Copeland)	2x ZR81-KCE Scroll
Refrigerant	Hydrocarbons
inlet/outlet connections diameter	50mm
Recommended Primary Circ Pump	GPD50-12F
Recommended Flow Rate (Litres/sec)	3
Water pressure drop (kPa)	<50
Noise Level (dBA) @ 3 metres	² 75
Defrost	Reverse Cycle
Cabinet Construction	Painted galvanized steel
Dimensions (mm)	1850L x 1000W x 1950H
Weight – empty (Kg)	650kg
Warranty	3yrs



- **Quiet yet powerful**
- **Economical to operate**
- **Simple to install**

Hydronic heat pump, ideal for commercial & industrial applications, heating large homes via water-filled radiators or water filled pipes embedded in the concrete slab. *(may require buffer tank – not included)*

Unit specifications subject to change without notice

1. SIZING IS FOR NEW 5-STAR THERMAL EFFICIENCY BELOW 500m ALTITUDE - CALL FOR FURTHER SIZING INFORMATION
2. Noise level can be reduced with optional ZA high-efficiency low-noise "Owlett" fans

HEATING THE NATURAL WAY

A heat pump uniquely extracts solar heat energy found abundant in the in air and transfers it to water.

Our Cold Climate Air Sourced Hydronic Heat Pump technology has a vast potential for harnessing renewable energy, reducing energy consumption and emissions. Our heat pump is able to extract heat from the air and concentrate it to provide hot water for heating homes and commercial buildings. The only energy required is that which is used to concentrate the thermal energy – so the system can provide a heat output up to four times larger than the energy input. Running costs are similar to Natural GAS Boilers, however in non-GAS areas it can potentially reduce heating costs by more than 75% compared to other fuels like LPG and straight electricity.

Because they don't rely on direct sunlight radiation, they can operate in all seasons of the year, under all conditions; shade, overcast, sun, rain, frost, even at night.

Long after a conventional solar collector array would have given up and reverted to its booster, our heat pump is still absorbing vast amounts of solar energy.

Unlike much of Europe where hydronic heating has been used for decades, in most area's of Australia a Cold Climate Air Sourced heat pump, used in conjunction with Solar Electricity will way outperform a ground sourced heat pump, and generally at a much lower overall installation cost, and there is no need bury hundreds of metres of pipes in the paddock.

With zoning control, used in conjunction with good building practices such as good insulation, passive solar design, hydronic heating with our state of the art, correctly sized heat pumps can be an economical and ecological, wise investment.

... "let us exceed your expectations"

For more information please call 1300 552 976

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