

## Model SK-25CC – Heat Pump

### Specifications: Model SK-25CC

Voltage / Phase	240v 50Hz/ Single Phase
Minimum Circuit Size (Amps)	40
Nom. output (Kw)@ 10°C ambient air	22kw@45°C water out
Nom. output (Kw)@ 10°C ambient air	20kw@60°C water out
Compressor Type (Copeland)	Scroll
Refrigerant	R407
inlet/outlet connections diameter (mm)	32mm copper
Flow Rate (Litres/second)	2.5
Maximum Outlet Water Temp (°C)	60
Noise Level (dBA) @ 3 metres	59
Defrost	Hot gas bypass (reverse cycle optional)
Drain	2x 20mm PVC
Cabinet Construction	1.2mm powder coated steel
Dimensions (mm)	1750L x 800W x 825H
Weight – empty (Kg)	130



- Operates in cold climates
- Quiet yet powerful
- Economical to operate
- Simple to install

Hydronic heat pump, ideal for heating 25sq homes where overnight temperatures fall below freezing. Heating water for water-filled radiators or water filled pipes embedded in the concrete slab. *(may require buffer tank – not included)*

Available as side or top air discharge

Unit specifications subject to change without notice

Similar models are available for swimming pool & spa heating, and commercial & industrial applications.

### ***A heat pump extracts solar heat energy from the air and transfers it to water.***

The mysterious heat pump. At first, our claims about this being a high efficiency solar system may seem outrageous, but really its quite simple - there is no magic, just science. We use 2x heat-exchangers, the first called an evaporator which is a massive array of fins with a metal tube coursing through it. Refrigerant gas is passed through the tube, starting at a temperature of **minus 28°C**, it readily absorbs solar energy in the form of heat out the air which is forced over it by large fans. After this "solar pre-heating, the refrigerant is compressed, bring it to about 80°C. This hot refrigerant then passes through the second heat-exchanger which has the circulating water on the other side, readily releasing its heat into the water. The refrigerant passes back to the heat-pump system, further processing and emerges back at the start of the cycle.

This process is highly extremely efficient 200-600% efficient! At an ambient air temp of only 10°C there is a 38°C temperature solar energy differential that we can harness. 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 has given up and reverted to its booster, our heat pump is still absorbing vast amounts of solar energy.

With zoning control and even remote activation by telephone if required, used in conjunction with good building practices such as good insulation, hydronic heating with our state of the art, correctly sized heat pumps can be an economical and ecological solution to your home heating requirements.

... "let us exceed your expectations"

**For more information on hydronic HEAT PUMPS, please call**

**1300 552 976**

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