

THE ADVANTAGES OF CHOOSING SIRAC

“Intelligent controller programmed to provide maximum component protection and accurate temperature control.”

- » Well engineered to provide years of reliable efficient operation.
- » Proven local and international track record.
- » Spacious and well-engineered compressor compartment provides easy service access.
- » Heavy gauge galvanized steel panels, epoxy painted after manufacture. 304 Stainless steel casings available as an option for coastal conditions.
- » Recognised international component brands.
- » Electronic Expansion valve.
- » Intelligent controller programmed to provide maximum component protection and accurate temperature control.
- » Environmentally friendly R417a refrigerant.
- » Purpose made SIRAC tube in tube heat exchanger designer to provide excellent efficiency, reliability and reduce tube fouling.
- » The product is specifically designed to meet South African conditions.
- » Emerson Copeland Scroll Compressors.



“Specifically designed to meet South African conditions.”

- GIVE US A CALL TODAY -
0861 082 913

SIRAC



**COMMERCIAL
HOT WATER HEAT PUMPS**

www.sirac.co.za

COMPRESSOR

The heart of the Heat Pump is the Emerson Copeland Scroll Compressor. These compressors have been developed specifically for heat pump applications. Copeland™ compressors are engineered for higher efficiency, lower sound levels, superior durability and unsurpassed reliability. They allow the integration of new and environmentally friendly refrigerants, while seamlessly improving efficiency and performance levels.



MICROPROCESSOR CONTROLS

The SIRAC programmable controller offers accurate temperature control with advance features that protect and manage the efficient operation of the unit. The controller has a fault diagnostic feature that prevents and reduces service call outs. The unit is provided with a backlit wired remote display for easy access.



ELECTRONIC EXPANSION VALVE [EEV]

The use of the EEV shifts the SIRAC products to a whole new level. The EEV increases the efficiency, reliability and performance. In the world of heat pumps, the EEV is the greatest advancement since the Scroll Compressor.



TUBE IN TUBE HEAT EXCHANGER

The proprietary SIRAC Coaxial Tube in Tube heat exchanger is made by SIRAC. The special coaxial design provides exceptional heat transfer and reduces tube fouling.

EVAPORATOR COIL

Hydrophilic-coated evaporator fins reduce corrosion and provides excellent heat transfer. Tubes are mechanically bonded to the fins.

REFRIGERANT

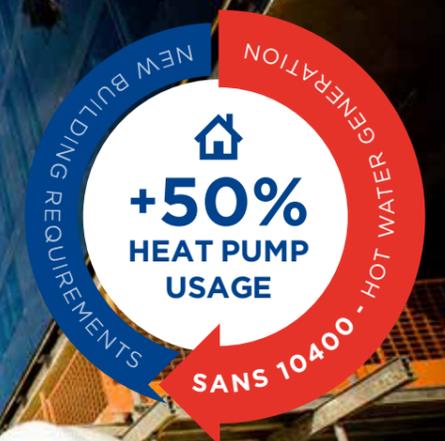
Environmentally friendly R417a refrigerant. Refrigerant R417a has been specifically selected for its low operating temperatures and pressures. This has a huge impact in the operating conditions and reliability of the compressors.

ELECTRICAL PANELS

Large and spacious electrical panels with easy access to all componenets. Reliable well-represented Schneider Electric Switchgear fitted as standard.

GAS PRESSURE ACTUATED WATER FLOW CONTROL VALVES

Provides hot water at a constant adjustable leaving temperature.



SOUTH AFRICAN BUILDING REGULATIONS: SANS 10400
The national building regulations, require all new builds to make use of heat pumps or solar water heaters for more than 50% of their hot water generation requirements.

SIRAC



TECHNICAL SPECIFICATIONS: COMMERCIAL HOT WATER HEAT PUMPS