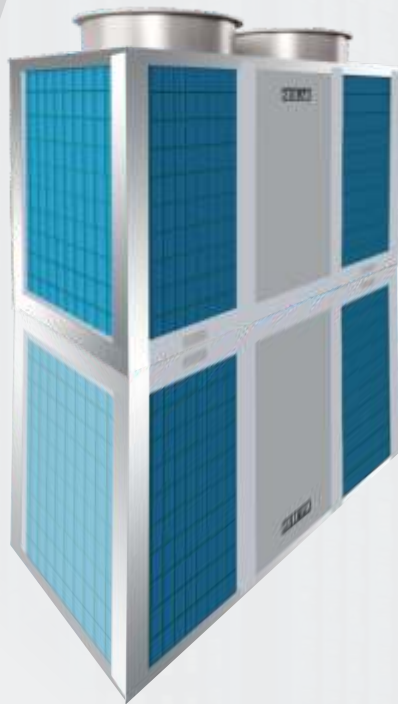




SEILAR THERMO AUSTRALIA P/L  
MANUFACTURING FROM AUSTRALIA  
TO THE WORLD

# HEAT PUMP CATALOGUE



## SEILAR THERMO AUSTRALIA PTY LTD

STA is a Global Company contributing to a more sustainable world with solutions for Renewal Energy, Low Power Consumption , PV Power as well as Innovative water heater Equipments . Seilar has over 50 years of experience in manufacturing products for both residential and commercial use. It all began in AIE in 1960s And Renamed in 2016 in the Sydney . Today, STA has operations and sales on Australia , North America, EU and Asia

<http://seilar.com.au>

MULTI AWARD  
WINNERS

SEILAR

FROM AUSTRALIAN MADE TO THE WORLD

## Our experience

For Seilar Thermo Australia Pty Ltd there's nothing new about renewables. Seilar has been producing innovative heat pumps, solar collectors, PV Panel for over 50 years with thousands of installations throughout Australia, Europe.

We are committed to developing heating solutions which utilise sustainable and renewable energy with the aim of reducing CO2 emissions and their impact on the environment.

From our manufacturing plants in Germany, Australia, JV in Malaysia produces the widest range of heat pumps, collectors available on the market and leads the way in the development of energy efficient

Over the years, Seilar has established strong relationships with it in all aspects of the construction and heating industries. Today Seilar electric heating and heat pump systems are operating efficiently across the Australia in schools, offices, social housing and libraries in both private and public sectors

## Quality assured

In order to ensure the highest levels of quality and to provide peace of mind, Seilar has an established network of Accredited Heat Pump Installers, all accredited under the Microgeneration Certification Scheme and fully trained and experienced in the installation of Seilar heat pump products.

No other company can provide the depth of range, expertise and service back-up for economical, Sustainable heating solutions.



### FACTORY SYDNEY AUSTRALIA

12 Hume Hwy, Chullora NSW 2190 Strathfield South  
NSW 2136 Australia

Tel: (02) 80069969

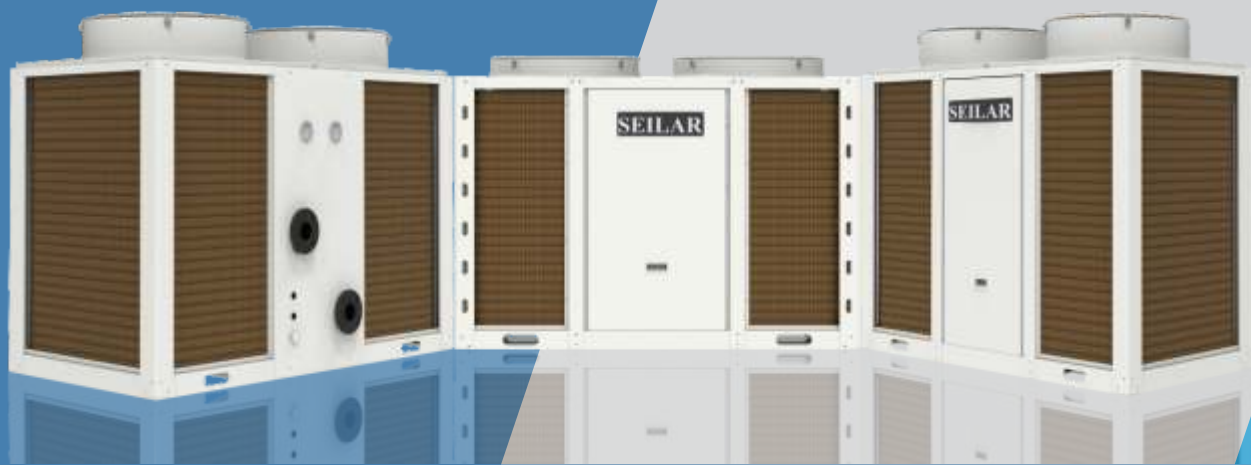
Fax: (02) 80069968

FROM AUSTRALIAN MADE TO THE WORLD

535 MT Alexander Rd, Moonee Ponds

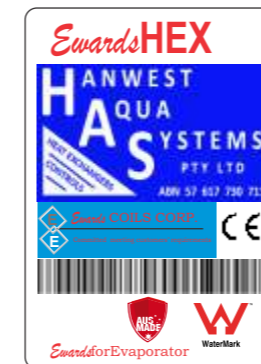
VIC 3039 Australia

Tel : 1300 556 039



### Parameter Water Source Heat Pump for hot water

Model	SE1800HP795WS	SE3200HP1495WS
<b>Heating and Cooling</b>		
Rated Heating Capacity ( Hot side)	80 KW	145 KW
Cooling Capacity Water (Source side)	72 KW	142 KW
<b>Electricals and Power supply</b>		
Power Supply	380-415V/3N/50Hz	380-415V/3N/50Hz
Rated Power Input	16 KW	30 KW
Rated Current	40.6A	80A
Max Input Power	18.9 KW	35 KW
Max Current	55.5A	100.0A
<b>Water source and Compressor</b>		
Refrigerant	R134a	R134a
Hot Water Circulaion Flow	12 m <sup>3</sup> /H	25m <sup>3</sup> /H
Water Source Flow	12 m <sup>3</sup> /H	25m <sup>3</sup> /H
Max Discharge Pressure	3.0Mpa	3.0Mpa
Max Suction Pressure	0.8Mpa	0.8Mpa
Rated Hot Water Outlet Temp	55°C	55°C
Max Hot Water Outlet Temp	70°C	70°C
Water source input /output	in 12°C    out 9°C	in 12°C    out 9°C
Unti-electric / Water-proof level	I/IPX4	I/IPX4
<b>Fittings and shipping</b>		
Water Pipe Size	DN40	DN65
Water Pressure Drop Loss	≤70kpa	≤70kpa
Working Noise	≤65dB(A)	≤65dB(A)
Working Ambient Temp Range	-7°C~4 <sup>3</sup>	-7°C~4 <sup>3</sup>
Shipping weight	320Kg	505Kg
Dimension ( mm )	1005*600*1402	1600*957*1350



With CE certificate by TUV.

Professional compressor for heat pump water heater: Adopt Copeland or Panasonic top quality scroll compressor specially for heat pump water heater, with much wider operation range for different ambient temperature. Special design for high suction & exhaust temperature, and system high condensing temperature & pressure, Higher efficiency, Lower noise, Higher reliability, Longer service life.

Wifi function for option(Control by Apps on mobile phone).

High efficiency shell & tube heat exchanger and coaxial heat exchanger: Adopt high efficiency internal thread copper coil, which heating area is 3.6 times than ordinary smooth coil, larger diameter water loop design to make water flow smoothly, energy efficiency is superior. Brazed plate type heat exchanger for option for brine to water type, higher efficiency.

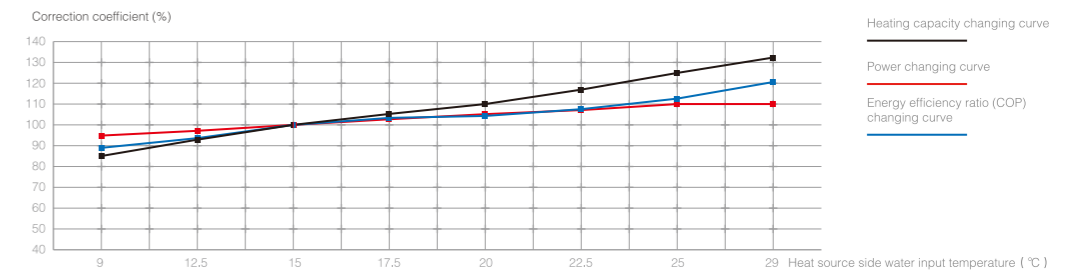
Danfoss brand dryer filter will be adopted for big capacities.

Schneider brand AC Contactor and Relay for, model selection according to the heat pump current capacity of 1.5 times, to ensure the efficient and stable operation for long time.

High precision electronic expansion valve: use electronic expansion valve for controlling, reach 500 steps adjustment, adjust super heat degrees accurately, achieve high efficiency operation system.

**SEILAR** brand self researched and produced control system. Adopt famous master chip, ensure stable running. With lot of protection functions: **SEILAR** engineer specially designed anti-freezing protection, High & low pressure protection, high temperature protection, overload protection, lack phase and reverse phase protection, and so on. Modular control for at most 32 heat pumps, can be combined freely according to the required capacity.

HEATING PERFORMANCE CORRECTION COEFFICIENT CHANGING CURVE



<http://seilar.com.au>



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EDWARDS “5VS” Series Tube-in-Tube water to refrigerant heat exchangers are available in either single or multiple assemblies for refrigeration or air conditioning system applications. They are manufactured with Titanium water tubes with an extended surface vent tube drawn over the external surface of the water tube. The outer refrigerant tube is a carbon steel pressure tube or they can be supplied with a copper outer refrigerant tube. All models are manufactured in a “double wall-vented tube” design to prevent cross contamination of refrigerant to the water side should a leak occur in a water tube.



Edwards Model 5VS 2.5.1 heat exchanger may be applied as a water cooled condenser for water heating or as a liquid chilling evaporator for fresh or sea water chilling.



Edwards “5VS” series double wall vented tube heat exchanger with Titanium water tube & copper outer refrig tube for Aquaculture water heating.



SS 316 HEX PLATE



MADE IN AUSTRALIA

### Typical Applications:

Water cooled condensers for the following applications.

- Swimming pool heat pump water heaters.
- “Pure Water” heat pump water heaters.
- Aquaculture sea water heating heat pump units.
- Heating of corrosive fluids.

They are also suitable as liquid chilling evaporators for the following applications:

- Tropical swimming pool chillers.
- Water chillers for fish hatcheries.
- Water chillers for live fish, crabs, lobsters etc.
- Wine or fruit juice chilling.
- Chilling of corrosive fluids.

Titanium is a robust material that resists corrosion and will give many years of efficient service.



Edwards “5VS” series Titanium tube water cooled condenser for 250 kW heat pump water heater for swimming pool application.

# SEILAR

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