

About Seilar Thermo Australia Pty

Heat Pump Trusted Technology

Heat Pump Technical Specifications

Solar Collector System

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 the 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

Quality assured



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



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.



Air source heat pump	
Refrigerant	R417 a
Compressor	Copeland
Condensor	Twin/ Pure Copper Electrophoretic resin coating
HEX	100% copper/ Stainless Steel
Contactora	FJ/CHI
Cabin/Chasis	Stainless Steel
Controler	Indoor digital controler Ipx4
Water Proof	ipx4
BMS terminal	Include

Model	S-695AW	S-995AW	S-1150AW	S-1500AW	S -1945AW
Heating water system /return °C	Max, 60/Min.5	Max, 60/Min.5	Max, 60/Min.5	Max, 60/Min.5	Max, 60/Min.5
Operation temp range Air °C	-5 to +45	-5 to +45	-5 to +45	-5 to +45	-5 to +45
Heating capacity Pt (kW)	70-75	95-105	115-125	150-165	200-215
Refrigerant	R417a	R417a	R417a	R417a	R417a
Input power range (kW)	13-15	23.5-26.5	23.5-25.5	28.5-32.5	38.5-42.5
Quantity of fan	2	2	2	3	4
Water flow required m ³ /h	15	20	22	24	26
Max Current (A)	40	50	60	70	125
Heating water flow rate m ³ /h Δt=35°C	1.8	2.2	2.9	3.9	5.2
Air flow m ³ /h	12800	13100	14800	15400	30800
Dimensions LxWxH (mm)	1750x1050x1900	1900x1100x2100	2000x1150x2060	2400x1050x1900	3780x1820x2100
Net/GrossWeight (Kg)	460/460	500/580	600/640	900/970	1010
Power Supply (V/Ph/Hz)	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Starting Current (A)	Gradual increase from 0 - 36	Gradual increase from 0 - 60	Gradual increase from 0 - 75	Gradual increase from 0 - 85	Gradual increase from 0 - 120
Defrosting	Automatic, reverse cycle				

The specification above may vary due to production without prior notice, please refer ex-work testing report for accurate configuration

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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



**ECONOMICAL ECOLOGICAL
Energy saving performance**

Cost-efficient solution for refurbishments and new builds due to high coefficient of performance (COP)
Savings in energy costs due to pumps with class A energy efficiency rating
High economic viability can be seen in reduced heating costs



**ECONOMICAL
No chimney No emissions**

Environment friendly energy acquired from ambient air
Independent of supply prices on the international oil and gas market
Completely free of flue emissions and odours



**EASY TO USE
Quick to install**

Tailored solutions for refurbishments and new builds
Easy installation due to ready-to-fit systems and flexible positioning
Automated operation due to intelligent control



**SOPHISTICATED
Low noise pollution**

Excellent sound insulation due to RPM-regulated operation
Easily combined with solar panels for even better carbon savings
For mono-energetic and bivalent operational modes

INNOVATION OF WATER HEATER



In the context of ever rising energy costs and climate change, every household is in need of a heating technology that is future-proof, cost-effective and independent of fossil fuels.

Using nature's energy

Heat pumps make a significant contribution towards solving the problems associated with increasingly scarce and evermore expensive energy resources – supplying more energy than they consume by tapping into the freely available, inexhaustible solar energy stored in the earth, the ambient air or water and converting this for use in a heating system.

In fact, up to 75% of the energy needed by the heating system is extracted from the environment, so the only energy required is electricity needed to drive the heat pump compressor.

Put another way, for every 1kWh of electricity used to run the heat pump, up to 5kW of useful heat is provided, giving the heat pump an efficiency of up to 500%.

A low carbon heating solution

Whenever fossil fuels such as gas or oil are burnt, carbon dioxide is released. CO₂ is the principle contributor to the greenhouse effect which is leading to long term climate change.

However as heat pumps extract as much as 75% of their heating energy from the environment, building carbon emissions for heating can be reduced by as much as 50% compared with gas fuelled heating systems.

This is an obvious benefit when considering building regulations Part L compliance, planning obligations requiring minimum contributions from renewable energy and EcoHome/Code for Sustainable Homes ratings.

**Low running costs
Low ownership costs**

The considerable contribution from renewable energy sources also helps to provide running cost savings over fossil fuelled heating systems and arguably more importantly, future proofs the system against future energy price increases.

But fuel costs are only part of the story. Unlike gas and oil based systems, heat pumps require no costly regular maintenance or annual safety inspections. And because a heat pump has a reasonable life expectancy of 20 – 25 years, typically twice that of a boiler, the investment costs can be recovered over a longer period meaning the ownership costs over the working life of the system are demonstrably lower.