



OILON CHILLHEAT | S Series Screw Heat Pumps

Finnish Engineered, Australian Distributed



Oilon ChillHeat S Series Screw Heat Pumps

Screw compressor technology for high capacity continuous duty industrial applications. Eleven models from 180 kW to 2,000 kW. S180 to S580 use compact plate heat exchangers. S600 to S2000 use heavy duty shell and tube heat exchangers. B variants achieve 90 °C output.

180 kW-2 MW

Capacity Range

90 °C

Max Output (B Variant)

11 Models

S180 to S2000

Finnish

Engineered

Key Features



Screw Compressor Technology

Single screw on S180 to S580 and twin screw on S600 to S2000 for high capacity continuous duty



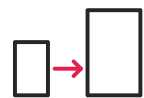
Plate, Shell, and Tube HEX

Compact plate heat exchangers on S180 to S580 and heavy duty shell and tube on S600 to S2000



B Variant at 90 °C

S600B to S1000B achieve 90 °C output bridging the S Series and high temperature P Series



Variable Speed Drive

Standard on S180 to S1200 and optional on S1500 and S2000 for stepless capacity modulation



Low GWP Refrigerants

R1234ze(E) at GWP 1.37 and R515B at GWP 288 for future ready F gas compliance



Cascade Ready

Units connect in series or parallel for effectively unlimited total system capacity



Gas Detection Option

Refrigerant leak detection with ventilated enclosure available for flammable refrigerants



Full Automation

Modbus RTU as standard with optional BACnet, Profinet and Profibus interfaces

Technical Specifications

S180 to S580 | Single Screw | Plate Heat Exchanger | Up to 85 °C

Models	Compressor	Circuit	H (mm)	L (mm)	W (mm)	Weight (kg)	Max Fuse
S180	Screw x1	1	2286–2306	3124	945	2300	250A
S280	Screw x1	1	2266–2286	3124	945	2900	335A
S380	Screw x1	1	2208–2228	3124	945	3600	500A
S490	Screw x1	1	2476–2496	3312	945	4000	630A
S580	Screw x1	1	2476–2496	3312	945	4500	800A

Max output temperature: 85 °C. Standard supply: 3/N/PE 400V 50Hz.

S600 to S2000 | Twin Screw | Shell and Tube HEX | Up to 90 °C

Models	Compressor	Circuit	Max Fuse	Max Fuse
S600	Screw x2	2	85 °C (90 °C — S600B Variant)	2x3x400A
S800	Screw x2	2	85 °C (90 °C — S800B Variant)	2x500A
S1000	Screw x2	2	85 °C (90 °C — S1000B Variant)	2x630A
S1200	Screw x2	2	85 °C	2x800A
S1500	Screw x2	2	85 °C	2x3x800A
S2000	Screw x2	2	85 °C	2x1,250A

S600–S2000 dimensions are project-specific. Contact O'Brien Energy for confirmed engineering data.

Refrigerant Options

Refrigerant	Class	Safety	GWP (EU 2024/573)	ODP	Max Outlet Temp
R1234ze(E)	HFO	A2L	1.37	0	85°C
R515B	HFO/HFC	A1	288	0	85°C
R450A	HFO/HFC	A1	601	0	85°C
R513A	HFO/HFC	A1	629	0	85°C
R134a	HFC	A1	1430	0	85°C

Operating Parameters

Performance	
Heating Capacity	180 kW to 2,000 kW
Max Output Temperature	90 °C (S600B to S1000B)
Min Cooling Temperature	-10 °C
Extended Capacity	Available on request via cascade
Construction	
Compressor Type	Single screw (S180 to S580) Twin screw (S600 to S2000)
Heat exchanger S180 to S580	Plate heat exchanger
Heat exchanger S600 to S2000	Shell and tube heat exchanger
VFD	Standard S180 to S1200 Optional S1500 and S2000
Electrical Supply	3/N/PE 400V 50Hz

In Operation Right Now



Calfors Bruk,
Sweden

What **oilon** Users Say

The heat pump system is easy to set up and adjust, and the customer support has been brilliant.



Nicolas Regel,
Calfors Bruk

it was a positive surprise how fast Oilon could set up a system for these demanding running conditions. After the first meeting we already had a detailed system draft with performance data.



Patrick Renström,
AFRY

It is very easy to find a suitable heat pump solution to almost any process or customer need. Even if the heat pumps are serial-made products, it is always possible to find a suitable configuration in Oilon Selection Tool.

We are really impressed how reliable the system at Calfors has been from day one, even if the system is running at really high temperatures.

The Oilon Global Monitor is also making process optimization and trouble shooting easy.

The units are designed for easy maintenance.



Daniel Ankarbranth,
Francks Kylindustri

The heat pump system is working really well. The first year the system has saved us -600.000 SEK, and this year we are expecting the savings to exceed 1 MSEK.

In addition to saving money, the heat pump system is also reducing our carbon emissions.



Fredrik Målberg,
Calfors Bruk

Why O'Brien?

- **Australia's Largest**

Leading supplier of industrial boilers across Australia

- **20+ Years Experience**

Decades of engineering expertise in steam & hot water systems

- **24/7 Support**

Around the clock support with instant phone assistance

- **Accredited Training**

RTO Code 45484,
boiler operation training nationwide

- **Tailored Solutions**

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with no off the shelf compromises

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obrien-energy.com.au



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