

OBRIEN



OILON CHILLHEAT | P Series Piston Heat Pumps

Finnish Engineered, Australian Distributed



Oilon ChillHeat

P Series Piston Heat Pumps

Multi piston compressor technology delivering output temperatures up to 120 °C. Nine models from 30 kW to 450 kW covering combined heating and cooling, heat recovery, and high temperature process applications.

30-450 kW

Capacity Range

120 °C

Max Output Temp

9 Models

P30 to P450

Finnish

Engineered

Key Features



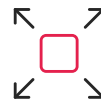
Up to 120 °C Output

Highest output temperature in class using R1233zd(E) refrigerant



Variable Speed Drive

Standard on P30 to P150 for stepless capacity control and optimised part load efficiency



Wide Refrigerant Range

Six refrigerant options including R1234ze(E) at GWP 1.37 for future ready F gas compliance



Dual Circuit Design

P220 to P450 models feature two independent refrigerant circuits for redundancy and flexibility



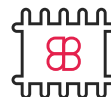
Cascade Ready

Units connect in series or parallel for virtually unlimited combined system capacity



ETL Listed Option

Available for selected refrigerants on request



Subcooler & Economiser

Optional performance upgrades that improve COP across all operating conditions



Full Automation

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

Technical Specifications

P30 - P150 Technical Data

Models	Compressor	Circuit	H (mm)	L (mm)	W (mm)	Weight (kg)	Max Fuse
P30	Piston x1	1	1297	1079	750	530	3x63A
P60	Piston x2	1	2091	1852	911	920	3x125A
P75	Piston x1	1	1801	1488	873	950	3x125A
P100	Piston x2	1	2091	1906	911	1200	3x160A
P150	Piston x2	1	2091	1996	911	1300	3x200A

P220 - P450 Technical Data

Models	Compressor	Circuit	H (mm)	L (mm)	W (mm)	Weight (kg)	Max Fuse
P220	Piston x3	2	2091	3148	911	2300	3x400A
P300	Piston x4	2	2091	3148	911	2600	3x630A
P380	Piston x5	2	2091	4290	911	3100	3x800A
P450	Piston x6	2	2091	4290	911	3700	3x800A

Standard supply: 3/N/PE 400V 50Hz. VFD standard on P30-P150; optional on P220-P450.

Refrigerant Options

Refrigerant	Class	Safety	GWP (EU 2024/573)	ODP	Max Outlet Temp
R1233zd(E)	HFO	A1	3.88	~0	120°C
R1234ze(E)	HFO	A2L	1.37	0	95°C
R515B	HFO/HFC	A1	288	0	95°C
R450A	HFO/HFC	A1	601	0	88°C
R513A	HFO/HFC	A1	629	0	80°C
R134a	HFC	A1	1430	0	80°C

Refrigerant selection depends on operating conditions and maximum output temperature required. Contact O'Brien Energy for engineering guidance.

Operating Parameters

Performance	
Heating Capacity	30 kW to 450 kW
Max Output Temperature	120 °C (R1233zd(E))
Min Cooling Temperature	-14 °C
Max Cooling Capacity	340 kW
Construction	
Compressor Type	Multi piston
Design Pressure HP side	35 bar
Design Pressure LP side	25 bar
Electrical Supply	3/N/PE 400V 50Hz
VFD	Standard on P30 to P150 Optional on P220 and above
Extended Capacity	Available on request

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**


Custom engineered, with no off the shelf compromises


- **765+ Active Clients**


Trusted across Australia and internationally

Ready to engineer your energy solution?

Connect with us at

 1300 771 759

 obrien-energy.com.au

 sales@obrien.energy

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