



**Compact
Cooling**

P800 series chiller

P800 series | Air - Water / Water - Water chiller

Compact stand alone enclosure. Excellent cooling power to size ratio.
High temperature stability. Reliable operation.
Low noise and vibration levels. Low maintenance.
Small water tank.
Cooling capacity: 1 kW - 15 kW
Flow rate: 3 - 30 l/min and more on demand

Applications

- Cooling of lasers (CO₂, passively cooled lasers, fibre lasers)
- Cooling of medical and laboratory equipment
- Printing industry
- HSC Spindles
- Tooling machines
- Laboratories
- Optical assemblies

The refrigerant compressor cools a heat exchanger plate. The central chiller control (CCC3) monitors the coolant water temperature and controls the refrigerant circuit.
A pump circulates the coolant water reliably to the load (e. g. laser). A particle filter on the chiller output and the flow sensor in the return, ensure trouble-free operation throughout the cooling water circuit.
The heat is expelled via a speed driven fan or transferred to an existing primary water supply via a heat exchanger.

Equipment

Designed for water with additions or de-ionized water
High temperature stability
Alarm dry contacts via 9-pole Sub-D on rear panel
Water level display
Fan speed control
RS232 interface
Remote start via 24V DC signal
50Hz/60Hz design
Refrigerant R134A

Optional Equipment

Water filter:	Externally or internally mounted, various filter grades available
Conductivity measurement and monitoring:	Conductivity monitoring of the coolant water
Conductivity control:	Regulation of the conductivity range (1 – 30µS, +/- 1µS/cm)
DI-cartridge:	Replaceable cartridge in water by-pass (0.35l or 0.5l)
Ambient temperature sensor:	Ambient temperature measurement using a PT100 sensor
Cooling power measurement:	Additional temperature sensor on return flow
Heating:	Start-up heating of the coolant water at low ambient temperatures (< 15°C) 1000W
Pressure measurement and monitoring:	Pressure sensor on chiller outlet
Water bypass:	Adjustment of flow via reduction valve
Flow rate:	Measuring, monitoring, controlled
Second flow sensor:	Second flow sensor on the return flow or for an additional water circuit
Relief valve:	Pressure & flow regulation
Air filter:	Air filters in the front panels
Customized like:	
Other motors & pumps, design, rollers, extra enclosure color	Contact Termotek



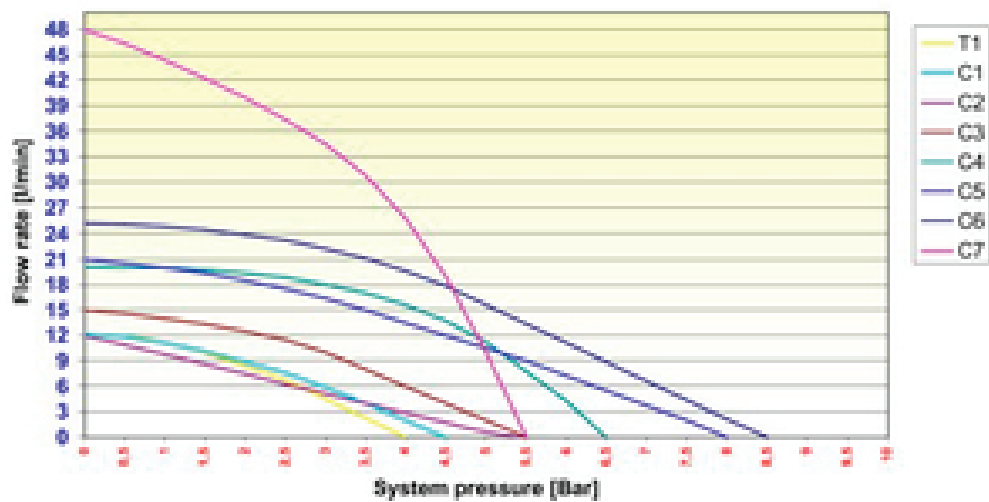
P800

P800 Series Model Overview (Standard Units)

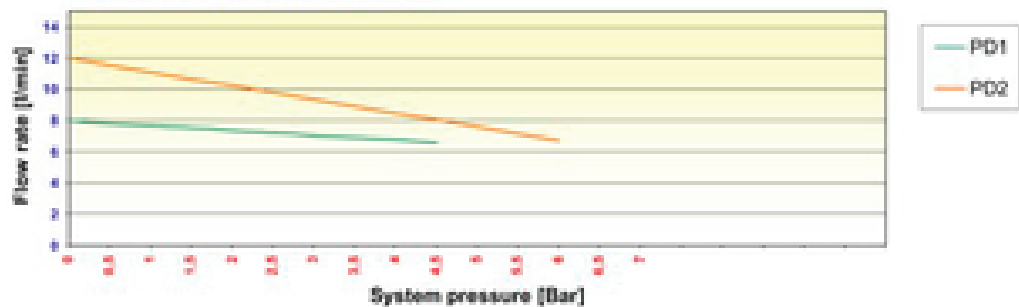
		P801 ECO	P801	P802	P803	P804	P805	P807	P810	P812	P815
T ambience (°C)	T water (°C)	Cooling Power (KW)									
25	15	0.7	0.6	1.14	2.4	3.3	5.3	7.1	9	12.7	15.7
	20	1	0.9	1.5	3.0	4.4	6.7	8.8	11	15.3	19
	25	1.2	1.1	1.7	3.2	4.7	8	10.7	14	16.7	20.8
30	15	0.6	0.5	1	2.3	3	4.5	6.2	7.7	11.45	14
	20	0.9	0.8	1.4	2.8	3.9	5.7	7.6	9.5	13.8	17.2
	25	1.15	1	1.6	3.1	4.5	6.8	9.7	12	15.1	18.9
35	15	0.5	0.45	0.9	2.2	2.7	4.2	5.7	7	10	12.3
	20	0.8	0.75	1.3	2.5	3.4	5.2	7	9	12.3	15.2
	25	1	0.95	1.5	2.9	4.1	6.3	9	11	13.5	16.8
40	15	0.35	0.3	0.6	1.9	2.5	3.7	5.5	6	8.5	9.5
	20	0.6	0.5	0.8	2.1	3.1	4.7	6.5	8	10	12
	25	0.9	0.8	1.1	2.7	3.7	5.7	7.7	10	11.5	13.5
Temperature stability (K)		+/- 0.5	+/- 0.1							+/- 0.2	
Standard Pump Basic line		T1/PD1	PD1			C3		C6			C7
Standard Pump Oil line		NA	C1			C3		C6			C7
Water connections		3/8" int. thread	1/2" internal thread		3/4" external thread						1" internal thread
Size (ca.) H/W/D (cm)		70/35/40	79,5/40/45		90,5/50/52		110/65/65		150/65/65		150/130/65
Weight (ca.) (kg)		60	65	70	80	90	130	140	150	280	320
Current (A)		7.5	7.5	9	10	13	11	12	13	15.5	18
Voltage (VAC)		230	230	230	230	230	400	400	400	400	400

Thermal performance measured with defined standard pumps.

Flow rate P800 range
Centrifugal pumps



Positive displacement pumps



Model P801 - P804



Front view



Back view

Model P805 - P815

