INDUSTRIAL

PLU 750

Liquid-to-Liquid waterchiller

The PLU brings high precision and reliable cooling power to your laser and easily connects to your facility water. Three TCT 4-PP Thermoelectric modules remove 750W of waste heat to external water and keep your laser water temperature within ±50mK from your desired set point.

"YOUR HIGH PRECISION WATER-WATER CHILLER"

Features

- Facility water runs directly over TEC's
- Compact housing
- Precise temperature control
- Low Noise

Benefits

- Powered by patented Top-Cool Technology
- Corrosion resistant design: virtually metal free
- Improved Laser beam performance
- Less maintenance when in 24/7 operation

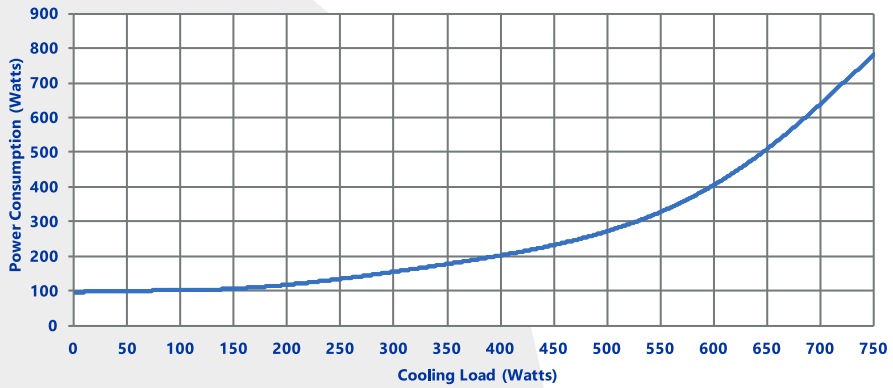
Specifications[1]

Cooling capacity	750	W
Operating environment temperature range	+10 to +40	°C
Control temperature range[2]	+5 to +45	°C
Temperature stability	± 0,05	°C
Input voltage (50/60Hz)	90 to 260	VAC
Current @ 230 VAC	3,4	A
Max input power	775	W
Frequency	50/60	Hz
Total dimensions (H x W x D)[3]	32 x 32 x 22	cm
Weight (empty reservoirs)	13,5	Kg
Fluid capacity	500	ml
Fan control	Automatic and fixed fan speed	
Interlocks/Heating Function	Optional/Optional	

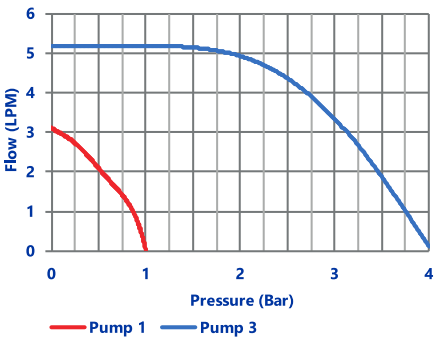
[1] PLU750/01, [2] distilled H_2O as coolant), [3] excl. machine feet and CPC's

POWERED BY

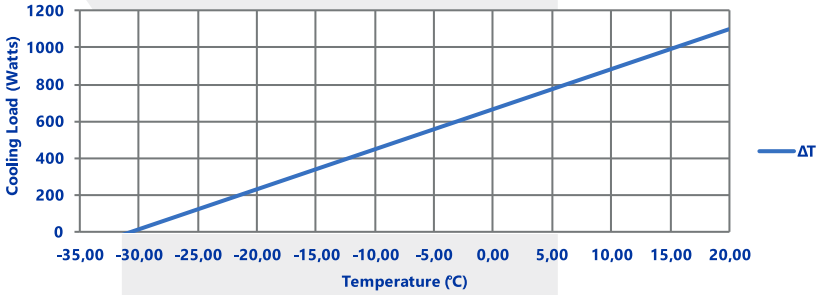
Cooling Capacity vs Power Consumption



Pump Curves



Outlet Fluid Temperature- Facility Water Temperature



Test Conditions L-2-L
Setpoint = 25 °C
Facility water temp = 20 °C
Process flow = 2,5 LPM
Process pressure = 1 Bar
Facility water flow = 3,5 LPM
Facility water pressure = 1,1 Bar

Ordering information

PLU750 /0x -yz__

y=0: No interlocks
y=1: 1x normally open & 1x normally closed
y=2: 1x normally open & 1x external voltage (2,5V DC)
z=0: USB only, no Serial Interface
z=1: DB-9 connector RS232/RS485
__ : H (Heating Option w/H-bridge)
__ : MF (Metal-Free process loop)

x=1: DC Centrifugal pump, fixed flow, 2,5l/min@0,35Bar, self-priming
x=2: not used
x=3: DC controlled centrifugal pump, variable flow, 2,5l/min@3,3Bar, non-self-priming