



INDUSTRIAL

# PSU 500

## 3-in-1 Portable Split Unit chiller

Your 3-in-1 Portable Chiller brings high-precision and reliable cooling power to O<sup>2</sup> & H<sup>2</sup>O and easily connects to your facility water. Three TCT 4-PP Thermoelectric modules remove enough waste heat while keeping your laser water temperature within ±50mK from your desired set point.

**“YOUR 3-IN-1 HIGH PRECISION OUTPERFORMING CHILLER”**

### Features

- Best COP in thermoelectric industry
- Detachable radiator unit
- Precise temperature control
- Speed regulated fans for less noise

### Benefits

- Powered by patented Top-Cool Technology
- Corrosion resistant design: virtually metal free
- Keep your investment when switching to facility water
- Less maintenance when in 24/7 operation

### Specifications<sup>(1)</sup>

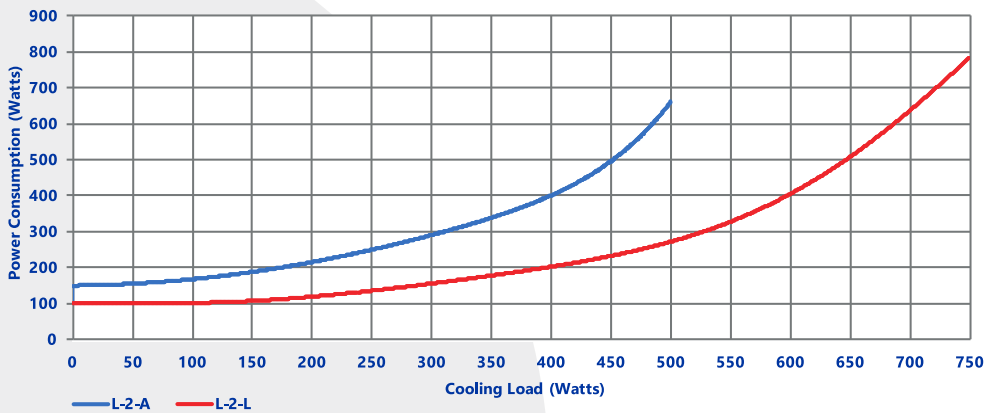
Cooling capacity	500	W
Operating environment temperature range	+10 to +40	°C
Control temperature range <sup>(2)</sup>	+5 to +45	°C
Temperature stability	± 0,05	°C
Input voltage (50/60Hz)	90 to 260	VAC
Current @ 230 VAC	3,15	A
Max input power (L-2-A)	725	W
Frequency	50/60	Hz
Total dimensions ( H x W x D ) <sup>(3)</sup>	32 x 32 x 36,5	cm
Weight (empty reservoirs)	20	Kg
Fluid capacity	500	ml
Fan control	Automatic and fixed fan speed	
Interlocks/Heating Function	Optional/Optional	

<sup>(1)</sup>PSU500/01, <sup>(2)</sup>distilled H<sub>2</sub>O as coolant), <sup>(3)</sup>excl. machine feet and CPC's

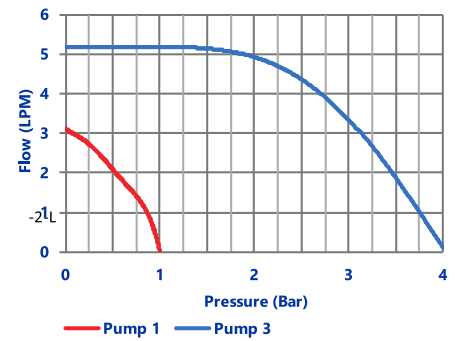


POWERED BY

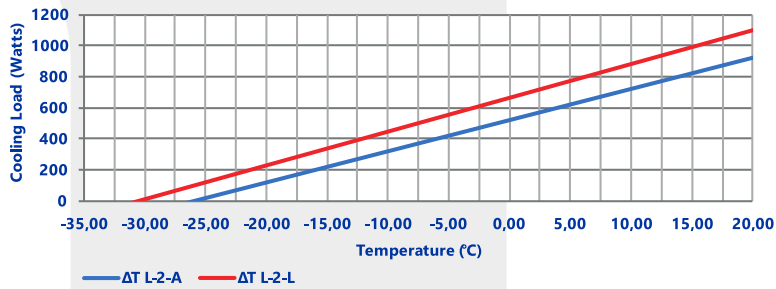
## Cooling Capacity vs Power Consumption



## Pump Curves



## Outlet Fluid Temperature - Ambient Temperature



Test Conditions L-2-A  
 Setpoint = 25 °C  
 Ambient temp = 25 °C  
 Process Flow = 2,5 LPM  
 Process pressure = 1 Bar

## Ordering information

PSU500 /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