

Qill

INDUSTRIAL

RSU 1000

3-in-1 Rackmount Split Unit chiller

When size matters today and facility water runs tomorrow, your choice for the RSU 1000 brings high-precision and reliable cooling power to both O² & H²O. The RSU 1000 is made up of an RLU 1800 and RHU 3400. So when switching to facility water in the future, connect it directly to the RLU 1800 chiller and continue to use it as if nothing changed. Six TCT 4-PP Thermoelectric modules remove enough waste heat while keeping your laser water temperature within $\pm 50\text{mK}$ from your desired set point.

"YOUR 3-IN-1 SPACE SAVING RACKMOUNT CHILLER"

Features

- Best COP in thermoelectric industry
- Detachable 19" 3U radiator unit
- Extreme precise temperature control
- Speed regulated fans for less noise

Benefits

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



Specifications⁽¹⁾

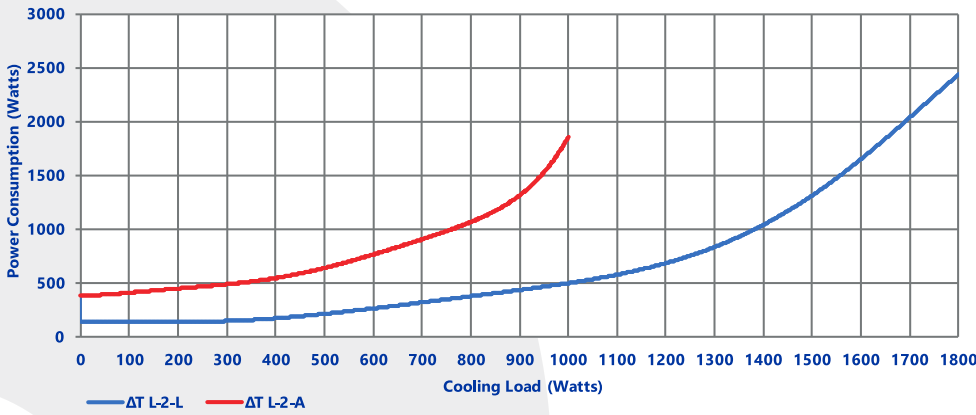
Cooling capacity	1000	W
Operating environment temperature range	+10 to +40	°C
Control temperature range ⁽²⁾	+5 to +45	°C
Temperature stability	$\pm 0,05$	°C
Input voltage (50/60Hz)	90 to 260	VAC
Current @ 230 VAC	9,6	A
Max input power (L-2-A)	2200	W
Frequency	50/60	Hz
Total dimensions (H x W x D) ⁽³⁾	27 x 48,5 x 56	cm
Weight (empty reservoirs)	35	Kg
Fluid capacity	1500	ml
Fan control	Automatic and fixed fan speed	
Interlocks/Heating Function	Optional/Optional	

⁽¹⁾RSU1000/03, ⁽²⁾distilled H₂O as coolant), ⁽³⁾excl. machine feet and CPC's

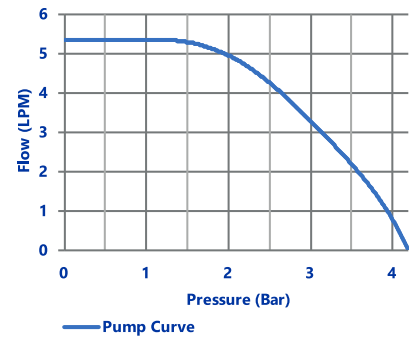


POWERED BY

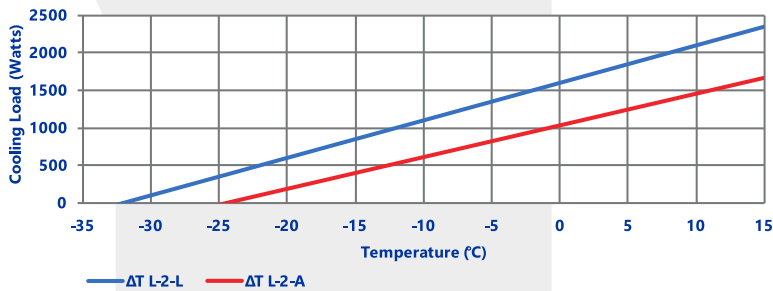
Cooling Capacity vs Power Consumption



Pump Curve



Outlet Fluid Temperature - Facility Water Temperature



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

Ordering information

RSU1000

/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: not used
 x=2: not used
 x=3: DC controlled centrifugal pump, variable flow, 2,5l/min@3,25Bar, non-self-priming