



INDUSTRIAL

RLU 1800

The unbeatable outperformer

In just ½ the size the 3U Rackmount Liquid Unit brings an unbeatable amount of cooling power with unmatched accuracy of ±30mK to your powerful laser. Six TCT 4-PP Thermoelectric modules capture an overwhelming 1800 Watts of waste heat in your facility water without any need for metal or heatpipe. You don't have facility water available? Connect a separate RHU Heatexchanger and you're ready for Air.

"YOUR ½ SIZED UNBEATABLE OUTPERFORMING CHILLER"



Features

- Best COP in thermoelectric industry
- Most cooling power per 1U
- Extreme precise temperature control
- Fastest response to changing in heat loads

Benefits

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

Specifications⁽¹⁾

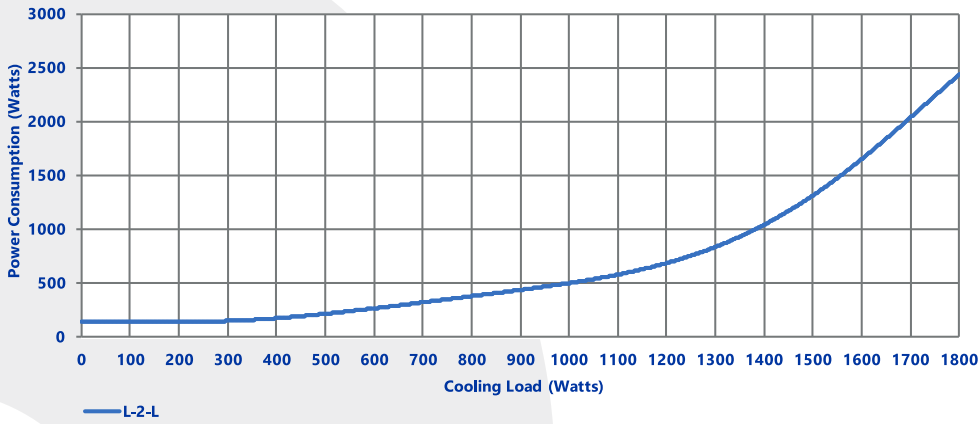
| | | |
|---|-------------------------------|-----|
| Cooling capacity | 1800 | W |
| Operating environment temperature range | +10 to +40 | °C |
| Control temperature range ⁽²⁾ | +5 to +45 | °C |
| Temperature stability | ± 0,03 | °C |
| Input voltage (50/60Hz) | 90 to 260 | VAC |
| Current @ 230 VAC | 11,3 | A |
| Max input power | 2600 | W |
| Frequency | 50/60 | Hz |
| Total dimensions (H x W x D) ⁽³⁾ | 13,5 x 48,5 x 56 cm | |
| Weight (empty reservoirs) | 19,5 | Kg |
| Fluid capacity | 1500 | ml |
| Fan control | Automatic and fixed fan speed | |
| Interlocks/Heating Function | Optional/Optional | |

⁽¹⁾RLU1800/03, ⁽²⁾distilled H₂O as coolant), ⁽³⁾excl. machine feet and CPC's

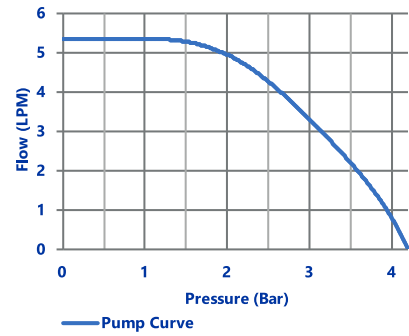


POWERED BY

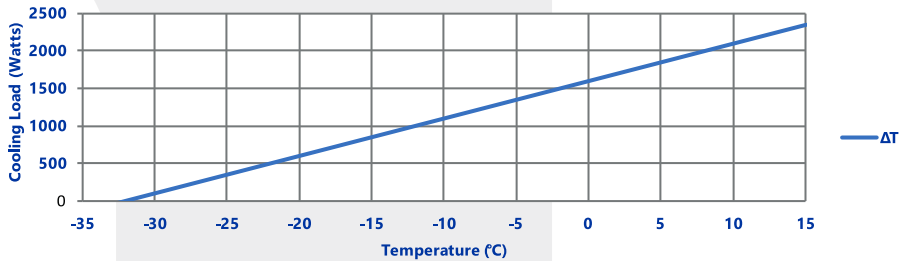
Cooling Capacity vs Power Consumption



Pump Curve



Outlet Fluid Temperature - Facility Water Temperature



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

Ordering information

RLU1800 /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