

WW Series Liquid Cooling System

The OW4002 uses facility water as a hot side heat dissipation mechanism, which increases the cooling capacity while maintaining form factor. The OW Series system is designed to operate using oil as coolant.

Features

- Cooling to ambient
- High heat pumping capacity in smallest form factor
- Long life operation

Applications

- Cooling Particle Accelerators: Linear Accelerators and Cyclotrons
- Spindle Screw Pump Technology for Medical Cooling
- Semiconductor Fabrication Equipment Cooling
- X-ray Cooling in Industrial Scanners



TECHNICAL SPECIFICATIONS

Performance

Nominal Cooling Capacity	4,000 W
Nominal Operating Flowrate (60 Hz)	22.0 L/min @ 3.5 Bar
Nominal Operating Flowrate (50 Hz)	22.0 L/min @ 3.5 Bar

Operation

Coolant	Shell Diala S4
Operating Temperature	5°C to 40°C
Storage temperature range (w/o coolant)	-40°C to 70°C
Humidity range	20% to 80%
Storage Humidity range	5% to 95%, non-condensing
Input Voltage	230 VAC
Frequency	50/60 Hz
Current	< 3.6 Amps
Noise	< 60 dB(A)
Flow Switch Open	≤ 17 L/min
Maximum Forward Pressure	9 Bar

Physical

Height	551 mm
Length	621 mm
Width	350 mm
Weight	45 kg
Coolant Capacity	23 Liters
Oil Fitting	M26 x 1.5 Female
Facility Coolant Fitting	3/8 in Barb (9 mm)

Any information furnished by Laird and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Laird. All specifications are subject to change without notice. Laird assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Laird products are sold subject to the Laird Terms and Conditions of sale (including Laird's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019-2023 Laird Thermal Systems, Inc. All rights reserved. Laird™, the Laird Ring Logo, and Laird Thermal Systems™ are trademarks or registered trademarks of Laird Limited or its subsidiaries.

Revision: 01 Date: 10-09-2023

Print Date: 10-09-2023