Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

# WL 2000
# Liquid to Air Heat Exchanger System

## WATER COOLED HEAT EXCHANGER UNITS FOR MEDICAL AND INDUSTRIAL SYSTEMS

The WL2000 is a re-circulating liquid to air heat exchanger that offers dependable, compact performance by removing large amounts of heat from a liquid circuit. The coolant is re-circulated using a high pressure pump to assure maximum flow rate. Heat from coolant is absorbed by a radiant heat exchanger and dissipated into the ambient environment using brand name fan. This unit incorporates a pump filter to maintain peak performance throughout operation life of product. Manual adjustments can be made to control pressure and flow of liquid circuit. Customized features are available, however, MOQ applies.

## FEATURES

- Compact design
- Reliable Operation
- Adjustable Flow Rate
- Bypass Valve Protection

## APPLICATIONS

- Medical Imaging Systems
- Photonics Laser Systems
- X-Ray Scanning Systems
- Semiconductor Fabrication

| Specifications | |
|---|---|
| **Performance** | |
| Cooling capacity[1] | 2,000 Watts |
| Flow Rate | > 4.4 lpm @ 4 bar |
| **Operation** | |
| Coolant | Water or Water/Glycol |
| Operational temperature range[2] | 10°C to 40°C |
| Storage temperature range (w/o coolant) | -25°C to 70°C |
| Humidity range | 20% to 80% |
| Input Voltage | 230 VAC |
| Frequency | 50 Hz |
| Current Draw | 2.1 Amps |
| Noise | < 70 dB(A) |
| Flow switch open | 4.0 lpm |
| Maximum forward pressure | 6.7 bar |
| **Physical** | |
| Dimensions (H x W x D) | 50.5 x 30.5 x 30.0 cm |
| Weight (w/o coolant) | 26.5 kg |
| Coolant Capacity | 2.5 L |
| Couplings | Walther Type MD 006 |

1 Capacity rating is given at a temperature of 25°C (77°F) for the ambient air and water outlet temperature of 11°C.
2 For ambient conditions outside this range, please contact Laird Technologies.


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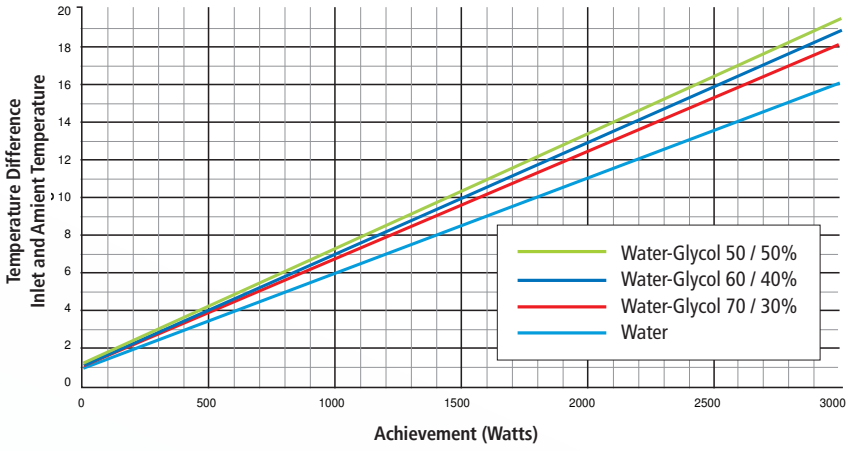
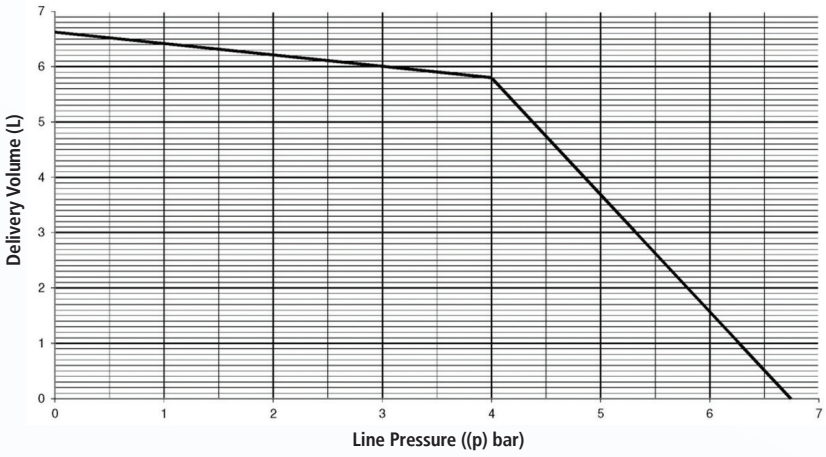
## PERFORMANCE CURVES

Thermal Capacity




Flow Rate



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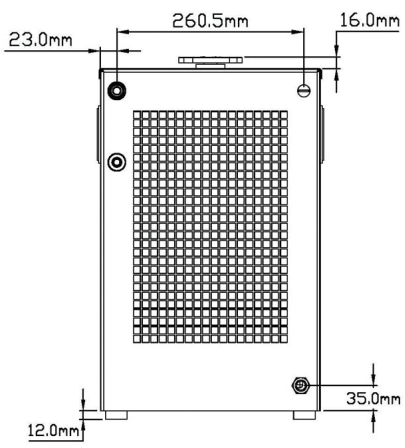
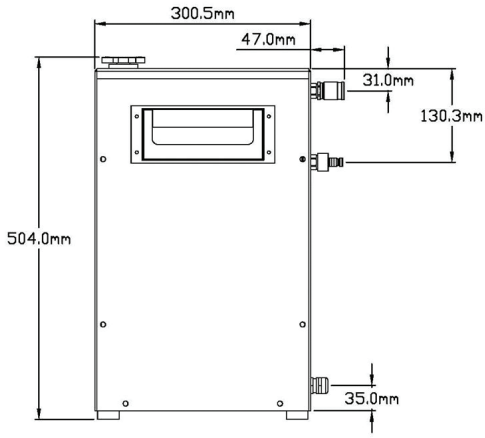
## ISOMETRIC DRAWINGS




## NOTES

1. Check coolant level regularly. For optimal cooling performance, coolant level should always be above radiator fins.
2. Hose selection should be of material and thickness to support pressure resistance and coolant type.
3. Manual adjustments can be made to control pressure and flow rate.
4. Check pump filter and dust on heat exchanger periodically for cleaning.

## ORDERING INFORMATION

### PART NUMBER EXAMPLE

| W | L | 2 0 0 0 |
|---|---|---|
| Water | Air | Capacity (Watts) |