# WATER CHILLERS - COOLING SOLUTIONS


ENRICO BRUNO s.r.l.
APPARECCHI SCIENTIFICI
SANITARI – INDUSTRIALI
www.enrico-bruno.it

## **COOLING SOLUTIONS** BY LABTECH

Even if water is one of the most precious and scarce resources, it is still largely used as coolant in many laboratories.
Most of the water used as coolant is not recycled, involving higher and higher laboratory costs.
LabTech offers a complete line of recirculating water chillers to match all laboratory needs.
The LabTech's state-of-the-art water chillers ensure accurate and constant cooling conditions of instruments even in the harsh laboratory conditions.

## **INNOVATION** INSPIRED


LabTech develops and produces innovative cooling systems used whenever high precise temperature control and rapid temperature changes are required.
LabTech follows the "Green Lab Conditions" regulations by using eco-friendly materials.
By adapting new technologies and innovations to maintain top reliability level worldwide. all production steps are focused to offer high quality and customized solutions to meet any requirement.
The LabTech water chiller line is specially designed for analytical, medical and industrial use providing accurate control of the temperature.

# 6 GOOD REASONS TO CHOOSE LABTECH WATER CHILLERS

### High energy efficiency

The "hot gas bypass" technology carries back the hot. uncondensed refrigerant through a reservoir coil eliminating both the ON/OFF compressor cycle and energy-waste.

### Accurate temperature

P.I.D. is a dynamic temperature control technique through proportional. Integral derivative algorithms controls that guarantees precise and stable temperature setpoint.

### High quality components

All parts used in LabTech chillers have to pass strict quality control tests. The quality control ensures a long lifespan. even with 24/7 use.

### Operating cost reduction

The LabTech's recirculating chillers allow to save a large amount of tap water. significantly reducing lab costs.

### "Green lab conditions"

All LabTech chillers use CFC-free cryogenic gas which is compatible with international environmental standards.

### High performance

The LabTech's chillers guarantee quiet operations and low water consumption providing rapid and powerful cooling.

# MAIN APPLICATIONS

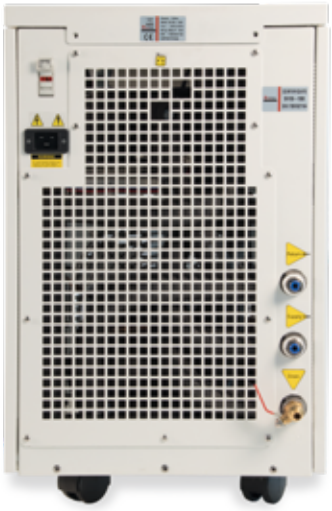
- AAS-GF
- ICP-OES
- ICP-MS
- XRF
- XRD
- Rotary evaporation
- Laser
- Distillation
- Packaging
- Sputtering
- Industry
- Electron microscopy

# WHEN AN INSTRUMENT HAS **NOTHING TO HIDE....**

## FRONT

- Touch color control panel for pressure. temperature and flow parameters
- Easy to clean condenser
- Liquid level indicator
- ON/OFF switch

## BACK



- Supply / Return / Drain hydraulic connections
- Liquid bypass valve
- Safety fuse
- Electric power socket IEC320

## LEFT

- Adjustable cooling gas valve
- Hot gas bypass valve
- Liquid reservoir

## RIGHT

- Top quality gas compressor and condenser
- Liquid pump
- Vibration insulation system

# TECHNICAL **SPECIFICATIONS**

| | H50-500 | H150-1000N | H150-1500NS | H150-2100NS | H150-3000NS |
|---|---|---|---|---|---|
| Temperature range (°C) | -5 ~ +35 | +8 ~ +35 | +8 ~ +35 | +8 ~ +35 | +8 ~ +35 |
| Temperature stability (°C) | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| Temperature control mode | | | P.I.D. | | |
| Cooling capacity (W) | 500 | 1000 | 1500 | 2100 | 3000 |
| Pump flux (L/min) | 3 @10psi | 5 @60psi | 5 @60psi | 13 @60psi | 13 @60psi |
| Pump power (W) | 25 | 120 | 120 | 250 | 250 |
| Pump type | | | Magnetic | | |
| Heat exchanger model | | | Board | | |
| Dimension (LxWxH cm) | 48x25x50 | 56x36x59 | 65x39x63 | 74x46x71 | 74x46x71 |
| Weight (Kg) | 28 | 52 | 68 | 83 | 83 |
| Power supply voltage | | | 230V 50/60Hz | | |
| Ordering information | LW500 | LW1000N | LW1500NS | LW2100NS | LW3000NS |

| | H150-5000N | H150-7000N | H150-9000N | H150-1000NLT | H150-2100NSLT |
|---|---|---|---|---|---|
| Temperature range (°C) | +8 ~ +35 | +8 ~ +35 | +8 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Temperature stability (°C) | ±0.2 | ±0.2 | ±0.2 | ±0.1 | ±0.1 |
| Temperature control mode | | | P.I.D. | | |
| Cooling capacity (W) | 5000 | 7000 | 9000 | 1000 | 2100 |
| Pump flux (L/min) | 13 @60psi | 13 @60psi | 13 @60psi | 5 @60psi | 13 @60psi |
| Pump power (W) | 250 | 250 | 250 | 120 | 250 |
| Pump type | | | Magnetic | | |
| Heat exchanger model | | | Board | | |
| Dimension (LxWxH cm) | 69x64x110 | 69x64x110 | 69x64x110 | 56x36x59 | 74x46x71 |
| Weight (Kg) | 162 | 164 | 164 | 52 | 83 |
| Power supply voltage | 230V 50Hz | 400V 50Hz<br>440V 60Hz | 400V 50Hz<br>440V 60Hz | 230V 50/60Hz | 230V 50/60Hz |
| Ordering information | LW5000N | LW7000N | LW9000N | LW1000NLT | LW2100NSLT |

*Customized versions available*