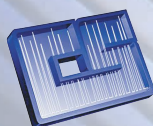


# WATER CHILLER COOLING SOLUTIONS



**LabTech**

WWW.LABTECHSRL.COM



**CHROMATOGRAPHIC  
SPECIALTIES INC.**

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## 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. LabTech's state-of-the-art water chillers ensure accurate and constant cooling conditions of your instrumentation in the harsh laboratory environment.



## INNOVATION ISPIRED



LabTech develops and produces innovative cooling systems used whenever high precise temperature control and rapid temperature changes are required.

LabTech follows "Green Lab Conditions" regulations using eco-friendly materials according to the international standards.

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.

LabTech water chiller line is designed especially for analytical, medical and industrial use providing accurate control of the liquid temperature.

## 6 GOOD REASONS TO CHOOSE LABTECH WATER CHILLER

### High energy efficiency

“Hot gas bypass” technology carries routes back the hot, uncondensed refrigerant through a reservoir coil eliminating both the on/off compressor cycle and the energy-waste.

### Accurate temperature

P.I.D. is a dynamic temperature control technique through proportional, integrative and differential controls that guarantee precise and stable temperature setpoint.

### High quality components

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

### Operating cost reduction

LabTech’s recirculating chillers allows to save a great amount of tap water, significantly reducing lab costs.

### “Green lab conditions”

All LabTech chillers use CFC-free R134A gas which is compatible with international environmental standards.

### High performance

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

## WATER CHILLER APPLICATIONS

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





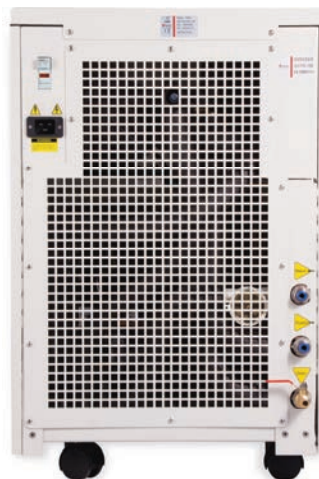
# WHEN AN INSTRUMENT HAS NOTHING TO HIDE....

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	H150-1000	H150-1500	H150-2100
Temperature range	-5°C ~ 35°C	8°C ~ 35°C	8°C ~ 35°C	8°C ~ 35°C
Temperature stability	±0,3°C	±0,1°C	±0,1°C	±0,1°C
Temperature control mode	PID	PID	PID	PID
Cooling capacity	500 Watts	1000 Watts	1500 Watts	2100 Watt
Pump flux	3 l/min@10psi	6 l/min@60psi	6 l/min@60psi	13 l/min@60psi
Pump power	25 Watts	120 Watts	120 Watts	250 Watts
Pump type	Mechanical	Magnetic	Magnetic	Magnetic
Heat exchanger model	BOARD	BOARD	BOARD	BOARD
Dimension mm (LxWxH)	480x250x500	560x360x590	670x385x625	735x460x703
Weight	28 kg	55 kg	78 kg	92 kg

	H150-3000	H150-5000	H150-7000	H150-100LT	H150-210LT
Temperature range	8°C ~ 35°C	8°C ~ 35°C	8°C ~ 35°C	-20°C ~ 35°C	-20°C ~ 35°C
Temperature stability	±0,1°C	±0,2°C	±0,2°C	±0,1°C	±0,1°C
Temperature control mode	PID	PID	PID	PID	PID
Cooling capacity	3000 Watts	5000 Watts	7000 Watts	1000 Watts	2100 Watts
Pump flux	13 l/min@60psi	13 l/min@60psi	13 l/min@60psi	6 l/min@60psi	13 l/min@60psi
Pump power	250 Watts	250 Watts	250 Watts	120 Watts	250 Watts
Pump type	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
Heat exchanger model	BOARD	BOARD	BOARD	BOARD	BOARD
Dimension mm (LxWxH)	735x460x703	690x640x1100	690x640x1100	560x360x590	735x460x703
Weight	92 kg	170 kg	170 kg	55 kg	92 kg

# LabTech

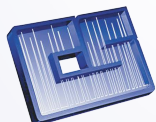
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The solution to your laboratory needs. LabTech is a young manufacturing company with skill and passion, devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern of Italy with facilities in USA and China. Incorporated with global branches, LabTech is organized with R&D, production, marketing & sales and customer support. Major LabTech products include organic/inorganic sample preparation systems, laboratory cooling/heating/temperature control equipments, analytical instruments, laboratory information management system and laboratory design and engineering. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments. With all these accomplishments and our never stopping efforts on research and development, we are proud of being one of few providers able to produce the most advanced sample preparation products.



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