

# WATER CHILLERS COOLING SOLUTIONS



**LabTech**

[WWW.LABTECHSRL.COM](http://WWW.LABTECHSRL.COM)

## 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 "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’s 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’s 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
- XRF
- Laser
- Sputtering
- ICP-OES
- XRD
- Distillation
- Industry
- ICP-MS
- Rotary evaporation
- Packaging
- 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 440V 60Hz	400V 50Hz 440V 60Hz	230V 50/60Hz	230V 50/60Hz
Ordering information	LW5000N	LW7000N	LW9000N	LW1000NLT	LW2100NSLT

*Customized versions available*

# LabTech

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## **LabTech. your reliable laboratory solution provider.**

LabTech is a leading manufacturing company with skill and passion devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern Italy, with facilities in USA and China. Incorporated with global branches, LabTech is organized into 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, gas generators and laboratory centrifuges. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments dedicated to the modern analytical laboratories. With all of these accomplishments and our endless research and development efforts, we are proud to be your professional partner.



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