

WATER CHILLERS COOLING SOLUTIONS



LabTech

www.Labtechus.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	SH150-1000	SH150-1500	SH150-2100	SH150-3000
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	PID	PID	PID	PID	PID
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	Magnetic	Magnetic	Magnetic	Magnetic
Heat exchanger model	Board	Board	Board	Board	Board
Dimension mm (LxWxH cm)	480x250x500	560x360x590	650x385x625	735x460x703	735x460x703
Weight (Kg)	28	55	78	92	92
Power supply voltage	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz	230V, 50/60Hz
Ordering information	LW500	LW1000	LW1500	LW2100	LW3000

	SH150-5000	SH150-7000	SH150-9000	SH150-1000LT	SH150-2100LT
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	PID	PID	PID	PID	PID
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	Magnetic	Magnetic	Magnetic	Magnetic
Heat exchanger model	Board	Board	Board	Board	Board
Dimension mm (LxWxH cm)	690x640x1100	690x640x1100	690x640x1100	560x360x590	735x460x703
Weight (Kg)	170	170	170	55	92
Power supply voltage	230V, 50Hz	400V, 50Hz - 440V, 60Hz	400V, 50Hz - 440V, 60Hz	230V, 50/60Hz	230V, 50/60Hz
Ordering information	LW5000	LW7000	LW9000	LW1000LT	LW2100LT

Customized versions available