



# COLD WATER PRODUCTION MACHINE CHILLER CH SERIE

The chiller is a group of production which works with cold water in closed circuit. It allows the cooling and the control of the water with a temperature, a pressure and a constant flow.



## Applications:

- |                            |                          |
|----------------------------|--------------------------|
| Atomic absorption          | Axial or radial view ICP |
| ICP-MS                     | Distillation             |
| XRF                        | XRD                      |
| Electronic microscopy      | Laser applications       |
| Diffusion vacuum pumps     | Rotary evaporators       |
| Sputter deposition systems |                          |

## Benefits and Savings

### Synoptic of operation on LCD screen

- Display of water outlet temperature
- Status of the chiller : on/off
- Status of the pump : on /off

### Synoptic of alarms on LCD screen

- Thermal alarm of the compressor
  - Low water level alarm in the tank
  - High and low alarm of the refrigerant fluid
- Allow to check and repair the breakdown very quickly and thus to reduce at maxi. the downtime.

**Water tank of great capacity** : improves the precision of regulation and generates energy saving per effect of thermal mass.

**Very low Level of noise < 50dB**

**Cooling without CFC**

### Easy maintenance:

Water filter very accessible on the front face and water refilling by the top

**RS232 / USB** : to collect functioning data

## Standard Features

- Real time monitoring of water temperature
- Constant control of water flow-rate and pressure
- Steel stainless tank
- Very low noise
- Easily accessible water filter
- Control of excess unit pressure
- High pressure peripheral pump
- Soundproofed compressor and pump
- Wide water temperature operating range
- Wide room temperature operating range
- CFC (chlorofluorocarbon) free refrigerant





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The line of portable recirculation water chillers covers cooling capacities from 1050 watts to 3000 watts. The high capacity stainless steel storage tank holds 18 litres of fluid. The flow-rate and water pressure control system ensure optimum delivery and prevent potential damage.

The electronic controller, designed with the latest generation electronics featuring touch screen display, monitors the main system parameters in real time.

The operating data can be read via RS232 / USB for certifying the system operating conditions in relation to the analytical data measured.

Precise control and stabilisation of water temperature, pressure, tank water level and electrical faults can be viewed by the operator at all times.

All chillers come with remote unit on/off control and audible/ visual alarm signals.

The design and the use of high quality components on the chillers ensure high productivity with very low noise.

### Technical Specifications

	MODEL CH10	MODEL CH30
<b>Features</b>		
Temperature range	+4°C/+40°C	+4°C/+40°C
Temperature uniformity	+/- 0,1°C	+/- 0,1°C
Temperature control	PID	PID
Ambient operating temperature range	+5°C / +30°C	+5°C / +30°C
Cooling capacity	1060watt	3000watt
<b>Peripheral pump</b>		
Head at zero flow	9 BAR	9 BAR
Flow-rate at zero head	18 L/MIN	18 L/MIN
<b>Storage tank</b>		
Net capacity	18 litres	18 litres
<b>Dimensions and weights</b>		
Width	450mm	450mm
Depth	670mm	670mm
Height	650mm	650mm
Weight	48 kg	56 kg
<b>Electrical specifications at 50 HZ</b>		
Tolerance on rated voltage	+/- 10%	+/- 10%
Maximum current	6 A	10 A

