



Heating Circulator - QualiHC™ Series



STANDARDS

IEC 61010-1
IEC 61010-2-010
IEC 61326-1

Heating Circulator - QualiHC™ Series

Heating Circulator (RT +8 to 300°C)

QualiHC™ Series Heating Circulator is a compact Process Thermostat designed to heat and maintain stable liquid bath temperatures for calibration, sample conditioning, and closed-loop circulation to external devices.

It supports internal and external circulation switching, with adjustable pump flow for different setups. Power-loss recovery and a configurable auto-restart/standby mode help labs keep runs consistent after interruptions. Temperature stability is built for precise setpoint control in daily laboratory workflows.

APPLICATIONS

Heating Circulator - QualiHC™ Series Applications

- Thermometer calibration: A stable bath temperature provides a repeatable reference point to verify and adjust thermometer readings across a working range.
- Temperature sensor calibration: Use the uniform bath environment to compare probes (RTD/thermocouple sensors) against a reference sensor and document offsets.

- Sample conditioning for testing and QC: Pre-condition liquids, standards, or sealed containers at a defined temperature before measurements, improving repeatability.
- External circulation to instruments: Circulate controlled-temperature fluid to jackets, coils, or external modules when connected devices need steady thermal input.



Standards

- IEC 61010-1 – Safety requirements for electrical equipment for measurement, control, and laboratory use.
- IEC 61010-2-010 – Particular safety requirements for laboratory equipment for the heating of materials.
- IEC 61326-1 – EMC requirements for electrical equipment for measurement, control, and laboratory use.

FEATURES

Heating Circulator - QualiHC™ Series Key Features

- Auto-restart behavior after power loss with user-selectable start/standby state.
- Run timer function that can stop operation automatically at the end of a set duration.
- Internal/external circulation switching to match bath-only work or external loop control.
- Adjustable pump flow to support different fixtures, sample loads, and circulation paths.
- Stable temperature control design intended for repeatable calibration and conditioning tasks.

THEORY & METHOD

Theory and Method

A Heating Circulator combines an immersion heater, temperature sensor, controller, and circulation pump to regulate bath temperature. The controller drives heating output to reach the setpoint, then continuously adjusts power to hold temperature steady as load conditions change. Internal circulation improves bath uniformity, while external circulation routes conditioned fluid through a connected loop. Use a compatible bath fluid for the temperature range, allow stabilization time, then verify uniformity at the working depth for best accuracy.

TECHNICAL SPECIFICATIONS

Heating Circulator - QualiHC™ Series Technical Specifications

Specification	QualiHC™ 15A	QualiHC™ 15B	QualiHC™ 30A	QualiHC™ 30B
Temp Range (°C)	Ambient + 8 to 100	Ambient + 8 to 200	Ambient + 8 to 100	Ambient + 8 to 200
Bath Volume (L)	15		30	
Top Opening (mm)	235 × 160	235 × 160	310 × 280	310 × 280
Tank Size (mm)	300 × 240 × 200	300 × 240 × 200	400 × 330 × 230	400 × 330 × 230
Heating Power (kW)	1.55		2.5	
Temp Fluctuation (°C)	±0.01			
Display Resolution (°C)	0.001			
Pump Flow (L/min)	0-15	Cycle	0-15	Cycle
Dimensions (L×W×H, mm)	482 × 375 × 490	482 × 375 × 490	605 × 425 × 490	605 × 425 × 490



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