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Find the *Thermo / HAAKE SC 150L* at our website: *Click HERE*



152-0018

STANDARD and ADVANCED Immersion Circulators

Versatile Thermo Scientific immersion circulators are offered in two performance levels: STANDARD (SC) and ADVANCED (AC).
These Thermo Scientific thermostats combine the best temperature control technologies with multiple features and benefits.

Maintain temperatures from ambient +13° to 300°C in tanks, jar baths, aquaria, or other vessels with capacities up to 13.75 gal. (50L).

AC 150 model features include:

- Temp. stability: 0.01
- Force / Suction pump with 475 mbar pressure and 20 L/min flow
- Heating capacity 1.2 KW
- External T control via PT100 sensor port
- Application threshold alarms to safeguard your experiment
- Temperature high and low limits
- 8 languages —English, French, ,German, Chinese, Russian, Spanish, Japanese, Italian

AC 200 model features include:

All features of AC150 with these added:

- Ramp program with 10 steps
- Edit ramp during run or pause
- USB port for remote control
- Real-time clock
- Multifunction port connects

- Booster pump (1 bar extra)

  Booster heater (2 kW extra)

  Auto refill device

- Magnetic / Solenoid valve box (e.g. control tap–water cooling

Standard Thermostats (SC 100, SC 150, SC 150L)

- Microprocessor PID controller
- Five programmable set temperatures
- RTA (Real Temperature Adjustment) for calibration of five set temperatures
- Pump speed adjustment to two levels for turbulence control
- Three languages (English, German, French)
- Easy-to-use keypad for setpoints, warning/safety values, and menu functions
- Large 2 x 1 in. LCD display for convenient interactive operation

- Change digital display resolution between 0.1° and 0.01° and between °C, °F, or °K
- Controller shuts down at first sign of excessive high temperature, low liquid level (except SC 100) or motor overload
- Low-liquid-level alarm (except SC 100)
- Acoustic and optical alarm to turn on protect application
- Auto-Restart option after turnon or power failure
- USB communication port (SC 150, SC 150L only)
- Communication option for RS-232, RS-485, Ethernet/LAN, Analog I/O (SC 150 and SC 150L only)
- SC 150L has a long shaft for deep and large baths

Advanced Thermostats (AC 150 and AC 200)

All of the Standard Thermostat features, plus:

- Pump speed adjustment to three levels for turbulence control
- Powerful force and suction pump for external open and closed applications
- Internal and external temperature control mode (Remote Sensor, NAMUR type)
- Programmable application temperature alarm with user-selected noise, go-save-state or shutoff option
- Ramp programming (AC 200), with edit during ramp feature
- Whole range Calibration of n points (AC 200)
- Eight languages (English, German, French, Spanish, Italian, Chinese, Russian, and Japanese)
- Early-warning alert for fluid refill
- Guided filling procedure, guided draining procedure
- AC 200 controller features a timer with real-time clock for time-critical applications
- Selection of predefined temperature fluids (with automatic set of high and low limits)
- Customization of control parameters for external and internal temperature control via serial communication (allows PID portion changes)
- Extra communication option for Profibus, CAN bus Analog I/O (AC 200U)
- Plumbing connection for M16x1, 0.25 in. NPT male, 0.375 in. O.D.

Ordering Alerts: Options include water cooling coil to extend the temperature range in bath with process cooling water supply; communication extension board with LAN cable for RS232, RS485, Ethernet/LAN; and communication extension board for Profibus, CAN bus.

Specifications

Display	LCD
Display Size	LCD 2 x 1 in. (53 x 29mm)
Power Consumption	1.2kW (115V)

Model	Temperature Range	Temperature Stability	Immersion Depth	Max. Pump Flowrate	Max. Pump Force	Max. Pump Pressure
SC 100	100°C	0.02°C	75 to 145mm	15L/min.	NA	300mbar/4.35psi
SC 150	150°C	0.02°C	75 to 145mm	15L/min.	NA	300mbar/4.35psi
SC 150L	150°C	0.02°C	75 to 190mm	15L/min.	NA	300mbar/4.35psi
AC 150	Ambient +13° to 150°C	0.015°C	75 to 145mm	21L/min.	330mbar/4.85psi	475mbar/6.89psi
AC 200	Ambient +13° to 200°C	0.015°C	75 to 145mm	21L/min.	330mbar/4.85psi	475mbar/6.89psi

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