Immersion circulators

Thermo Scientific™ Standard, Advanced, and Premium Series heated immersion circulators offer advanced, precise sample temperature control. Powerful, integrated pumps ensure uniform temperature distribution for external circulations usage or internal temperature control.

• Programmable with temperature set points and ramping

• The controller can be indexed 90° for optimal viewing

• Real temperature adjustment (RTA) for calibration

• Audio/visual alarms for temperature and levels

• Adjustable pump speeds for flow or bath agitation

• Auto-restart after power failure

• On/off timer with real-time clock

• USB/serial communication options

Standard (SC) Series—choose from 3 versions
Designed for ease of use with powerful pumping and heating capabilities for closed-loop applications, this economical choice offers solid performance for applications with temperatures ranging from +13°C above ambient to 150°C.

Advanced (AC) Series—choose from 2 versions
This series offers greater pumping performance, ramp programming, application alarms, and temperature ranges from +13°C above ambient to 200°C.

Premium (PC) Series—choose from 3 versions
This series is ideal for applications that require sophisticated control, multiple ramp programming, and extreme temperature performance, ranging from +13°C above ambient to 300°C.

Thermo Scientific™ SC100
Immersion Circulator

Thermo Scientific™ AC150
Immersion Circulator

Thermo Scientific™ PC200
Immersion Circulator

Model	Standard Series			Advanced Series		Premium Series		
	SC100	SC150	SC150L	AC150	AC200	PC200	PC201	PC300
Maximum temperature (°C)	100	150	150	150	200	200	200	300
Temperature stability (°C)**	0.02			0.01		0.01		
Heater capacity (kW) 230 V/115 V	2/1.2			2/1.2		2/1.2	3†	3†
Maximum flow rate (L/min)	17			20		24		
Maximum pressure (mbar/psi)	300/4.35			475/6.89		560/8.12		
Maximum suction (mbar/psi)	–			330/4.78		380/5.51		
Tank depth requirement (mm)	150	150	200	150		200		
Programmable set point temperatures	5							
Ramp programs	–	–	–	–	1	10		
High temperature warning	–	–	–	Yes		Yes		
Low level warning	–	Yes	Yes	Yes		Yes		
Application threshold alarm	–	–	–	Yes		Yes		
Fluid selection with predefined temperature limits	–	Yes						
Remote sensor port				Y	Y	Y	Y	Y
USB port		Y	Y		Y	Y	Y	Y
Multifunction port					Y	Y	Y	Y
Safety	–	Automatic shutdown for high temperature, low liquid level, or motor overload						
Pump	2 speed			3 speed		Incremental speed 40% to 100%		
Languages	English, German, French			English, German, French, Spanish, Italian		English, German, French, Spanish, Italian, Chinese, Japanese		

* In combination with a Thermo Scientific™ PT100 sensor probe (Cat. No. 3330818 and 3330429) connected to the external application.
** Temperature stability data measured according to DIN 12876.
† Available only in 230 V.