

# Performance Programmable Temperature Controller

Delivers the ultimate in precision, performance, and operational flexibility.

Includes Enhanced Performance Hardware & Software Package:

- Pt100 temperature probe for external temperature control
- USB drive for data logging
- Stainless steel tubing fittings and adapters
- PolyScience LabVIEW™ Virtual Instrument (VI)
- iPhone® application download



## Features:

- $\pm 0.005^{\circ}\text{C}$  temperature stability
- $200^{\circ}\text{C}$  maximum temperature
- OpenMode time/temperature programming (no restriction on number of programs or steps)
- Intuitive 4.3" (10.9 cm) SmartTouch display
- 11 languages: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English
- Variable speed pressure/suction pump
- Swivel 180™ Rotating Controller
- On board connectivity: USB A & B, Ethernet, RS232/485, remote on/off and external temperature probe
- Event scheduling (time & date) with real time clock
- Review temperature trends for up to 10 days
- Multiple, selectable "home" screens
- On screen help
- Automatic and/or user adjustable performance optimization
- 10 point calibration capability
- Safety Class III (DIN 12876 1)
- External temperature control capability
- Available with DeviceNet™/CANbus, Modbus®, and Profibus® options

## Absolute Precision

Our most precise and sophisticated temperature controller, the Performance Programmable, combines  $\pm 0.005^{\circ}\text{C}$  temperature stability,  $1/1000^{\circ}$  temperature resolution, 10-point user calibration capability, highly advanced fluid tuning, and external temperature control to deliver exacting control at temperatures ranging from  $-40^{\circ}$  to  $+200^{\circ}\text{C}$ .

## Total Control

Create, review and run even the most complex ramp and soak temperature program quickly, easily, and without guesswork. Highly intuitive programming application lets you add, edit or delete steps quickly. Settable time or temperature priority ensures programs run as intended. Plain-text program naming and preview function makes it easy to identify stored programs. Convenient upload/download utility allows you to quickly share or backup stored programs. Plus, the intelligent scheduling application even lets you schedule a program to run automatically – hours, days, weeks, even months in the future.

## Completely Connected

With the Performance Programmable, you can check and control your PolyScience Circulator from the other side of the lab – or the other side of the world! It features an extensive suite of control, data logging, and communications options, including protocols that emulate the communication and command sets of other popular circulating baths. Connectivity capabilities include Ethernet, RS232, addressable RS485, remote on/off, USB-A and USB-B plus software support for LabVIEW™. In addition, a pioneering iPhone® application provides easy mobile access.

## Exceptional Convenience

Multi-language menus, contextual on-screen help, and highly intuitive operation make using the Performance Programmable Controller exceptionally easy. Set-point changes take just a few simple touches. This intelligent controller even alerts you when routine maintenance, such as air filter cleaning, is required.

## Extraordinary Safety

Engineered to Class III flammability requirements (per DIN 12876-1), the Performance Programmable Controller protects your samples, equipment, and processes with a wide variety of safety features, including a redundant over-temperature safety, high and low temperature limits, high and low temperature alarms, and a user-settable safety. A password protected lockout can also be activated that prevents unauthorized set-point and other operational changes.

