



APPLICATION-SPECIFIC PRODUCTS

UNIQUELY CONFIGURED TO
ACCOMMODATE SPECIFIC TESTING
AND QUALITY CONTROL NEEDS

Application-Specific Products

Our selection of purpose-built products is designed to accommodate specific testing and quality control needs, such as the calibration of temperature measurement devices, viscosity measurements, fecal coliform testing, plasma thawing, histological and beverage-aging studies.



Viscosity Baths

Uniquely configured to accommodate specific testing and quality control needs, including ASTM D-445 (Advanced Digital Only).

Key Features

- Working temperatures up to 200°C
- Temperature stabilities to $\pm 0.01^\circ\text{C}$
- Advanced Digital or MX Temperature Controller
- Configured for use with popular capillary viscometers
- Glass reservoir
- Includes tap water cooling coil
- Lidded viscometer openings



Coliform Bath

Specifically designed with key features allowing for numerous industry-standard coliform tests.

Key Features

- Large, universal icon and English display
- On-screen prompts
- Single-point calibration capability
- Ideal for fecal coliform and E.coli testing
- MX Temperature Controller
- 28 liter reservoir with hinged, see-through gable cover
- Large, easy to read display
- DuraTop™
- Large bath opening



Histology Freeze Plate

Fast-freeze cold plate allows the histotechnologist to observe tissue freezing and keep specimen edges flat.

Key Features

- Ultra-cold surface freezes samples quickly, reduces overall processing time by 40% or more
- 136 in² (877 cm²) freezing surface accommodates multiple specimens simultaneously

Application-Specific Products Continued

Our selection of purpose-built products is designed to accommodate specific testing and quality control needs, such as the calibration of temperature measurement devices, viscosity measurements, fecal coliform testing, plasma thawing, histological and beverage-aging studies.



Refrigerated/Heated Calibration Bath

Ultra-precise temperature control over an extremely broad temperature range.

Key Features

- Accommodates up to 6 temperature measuring devices
- Advanced Programmable Temperature Controller with OpenMode time/temperature programming
- Refrigerated/Heated
- Includes bath lid with sleeves for two each 3 mm, 4 mm and 6 mm diameter openings



Cryoprecipitate Bath

Safe, reliable thawing of Fresh Frozen Plasma (FFP) for the recovery of Cryoprecipitated Antihemophilic Factor (AHF).

Key Features

- Setpoint Fixed at 4°C (Variable Setpoint 4° to 40°C on -V models)
- Thaws up to 24 units of FFP or Whole Blood (WB) simultaneously
- Bright temperature and elapsed time displays
- Built-in over-temperature and flow alarms
- Calibration capability
- High efficiency fluid filter, removable air filter, reservoir drain
- Hinged polycarbonate gabled cover



75 Liter Forced Age Testing Bath

Specifically designed to replicate temperature fluctuations that accelerate beverage aging

Key Features

- Advanced Programmable Temperature Controller offers endless array of thermal cycling options and programs
- Complies with DIN 12876-1 Class III safety requirements for use with flammable liquids
- DuraTop™ insulating, chemical-resistant top deck
- WhisperCool® Environmental Control System
- Cool Command™ modulated refrigeration system
- Reservoir drain
- Washable air filter

Viscosity Baths Features & Specifications

Uniquely configured to accommodate specific testing and quality control needs, including ASTM D-445.

Glass Viscosity Baths with Advanced Digital Temperature Controller

Key Specifications

Working Temperature: Ambient +10° to +200°C

Temperature Stability: ±0.01°C

Safety Rating: Class III Safety Rating (FL)

External Temperature Control Capability: Yes

Pump: Variable-speed

External Circulation: Open- or closed-loop

- Configured for use with popular capillary viscometers
- DuraTop™ insulating, chemical-resistant top deck
- Includes tap water cooling coil

Key Features

- Intuitive 3.75" (9.5 cm) display with touch-pad control
- 4 languages: French, German, Spanish, English
- Swivel 180™ Rotating Controller
- On-board connectivity: USB-A & B, Ethernet, RS-232/RS-485 and external temperature probe
- On-screen prompts
- Automatic performance optimization and specific heat tuning
- Single-point calibration capability



Glass Viscosity Baths with MX Temperature Controller

Key Specifications

Working Temperature: Ambient +10° to +135°C

Temperature Stability: ±0.07°C

Safety Rating: DIN 12876-1 Class I (for use with non-flammable liquids)

Pump: 1-speed

External Circulation: Closed-loop

- Configured for use with popular capillary viscometers
- DuraTop™ insulating, chemical-resistant top deck
- Includes tap water cooling coil

Key Features

- Large, universal icon and English display
- On-screen prompts
- Single-point calibration capability



Coliform Bath Features & Specifications

Designed for coliform testing

Coliform Bath

Key Specifications

Temperature Range: Ambient +10° to 135°C

Temperature Stability: ±0.07°C

Safety Rating: DIN 12876-1 Class I (for use with non-flammable liquids)

Pump: 1-speed

Specifically designed for the following coliform tests:

- APHA, AWWA, WEF and EPA fecal coliform determinations at 44.5°C as specified in "Standard Test Methods for the Examination of Water and Wastewater" (19th edition). The membrane filter method or MPM method can be used.
- AOAC determination of E.coli at 45.5°C
- APHA, AWWA, WEF 7-hour Fecal Coliform Test at 41.5°C
- Defined Substrate Technology tests for E.coli and total coliform at 35.0°C

Key Features

- Large, universal icon and English display
- On-screen prompts
- Single-point calibration capability



Histology Freeze Plate Features & Specifications

Fast-freeze cold plate allows the histotechnologist to observe tissue freezing and keep specimen edges flat.

Histology Freeze Plate

Key Specifications

Temperature Range: Fixed at -34.4°C (-30°F)

Freezing Surface: 14.5 x 9.4 (36.8 x 23.8 cm)

Overall Dimensions (L x W x H): 15.9 x 18.4 x 10.5 (40.3 x 46.7 x 26.7 cm)

Key Features

- Ultra-cold surface freezes samples quickly, reduces overall processing time by 40% or more
- 136 in² (877 cm²) freezing surface accommodates multiple specimens simultaneously



Refrigerated/Heated Calibration Bath Features & Specifications

Ultra-precise temperature control over an extremely broad temperature range.

Refrigerated/Heated Calibration Bath

Key Specifications

Calibration Temperature: From -30° to +200°C

Temperature Stability: $\pm 0.005^{\circ}\text{C}$

Calibration Certificate: 2-point factory calibration

Reservoir Capacity: 15 liters

Key Features

- Accommodates up to 6 temperature measurement devices 2 - 8 mm in diameter; includes bath lid with sleeves for two each 3, 4 and 6 mm diameter openings
- Advanced Programmable Temperature Controller with OpenMode time/temperature programming
- Intuitive 4.3" (10.9 cm) SmartTouch display
- Swivel 180™ rotating controller
- 11 languages: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English
- On-board connectivity: USB-A & B, Ethernet, RS232/485, remote on/off and external temperature probe
- Event scheduling (time and date), real-time clock, and temperature trends for up to 10 days
- Automatic and/or user-adjustable performance optimization and 10-point calibration capability
- Complies with DIN 12876-1 Class III safety requirements for use with flammable liquids
- Includes Enhanced Performance Hardware & Software package
- DuraTop™ insulating, chemical-resistant top deck
- WhisperCool® Environmental Control System
- Cool Command™ modulated refrigeration system
- Reservoir drain
- Washable air filter



Cryoprecipitate Bath Features & Specifications

Safe, reliable thawing of Fresh Frozen Plasma (FFP) for the recovery of Cryoprecipitated Antihemophilic Factor (AHF).

Cryoprecipitate Bath

Key Specifications

Working Temperature: Setpoint Fixed @ 4°C (Variable Setpoint 4° to 40°C on -V models)

Temperature Stability: ±0.1°C

Reservoir Capacity: 52.24 liters

Working Access (L x W x D): 20.6 x 13 x 12" (52.4 x 33 x 30.5 cm)

Overall Dimensions (L x W x H): 28 x 14.5 x 36.6" (71.1 x 37 x 93 cm)

Key Features

- Setpoint Fixed at 4°C (Variable Setpoint 4° to 40°C on -V models)
- Thaws up to 24 units of FFP or Whole Blood (WB) simultaneously
- Bright temperature and elapsed time displays
- Built-in over-temperature and flow alarms
- Calibration capability
- High efficiency fluid filter, removable air filter, reservoir drain
- Hinged polycarbonate gabled cover



75 Liter Forced Age Testing Bath Features & Specifications

Specifically designed to replicate temperature fluctuations that accelerate beverage aging.

75 Liter Forced Age Testing Bath

Key Specifications

Working Temperature: -20° to +100°C

Temperature Stability: ±0.005°C

Cooling Capacity: 1400 watts @ 20°C

Working Access (L x W x D): 21.6 x 15.7 x 9.4" (54.9 x 39.8 x 23.9 cm)

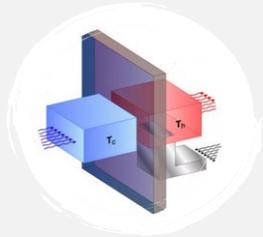
Key Features

- Advanced Programmable Temperature Controller offers endless array of thermal cycling options and programs
- Complies with DIN 12876-1 Class III safety requirements for use with flammable liquids
- DuraTop™ insulating, chemical-resistant top deck
- WhisperCool® Environmental Control System
- Cool Command™ modulated refrigeration system
- Reservoir drain
- Washable air filter
- OpenMode time/temperature programming (no restrictions 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 pump with open- and closed-loop external circulation capability
- 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



Glossary of Terms

At PolyScience, we believe strongly in providing the very best products and the highest level of service to our customers. While we have tried to provide adequate product descriptions, we realize that some customers may be interested in more in-depth information than that listed.



Cooling Capacity

This is the amount of heat removal that a refrigerated device, such as a Chiller or Refrigerated Circulator, can provide at a given temperature. It is generally stated in watts or BTUs/hour. It may also be expressed in tons.



Temperature Range

This is the temperature range that the equipment is capable of achieving and may be broader than the Working Temperature Range. This extended temperature range is particularly useful for the cooling of devices — such as lasers — that must be brought up to a temperature above ambient before operation can begin.



Temperature Stability

This represents how precisely an instrument maintains a set-point temperature and is expressed as a plus/minus value. For example, the actual bath temperature in a circulating bath with a set-point of 23.20°C and a temperature stability of $\pm 0.01^\circ\text{C}$ may vary from 23.19°C to 23.21°C.



Working Temperature Range

This is the temperature range over which the equipment can achieve and control without auxiliary heating or cooling at the stated temperature stability specification.



Cool Command™

A modulated refrigeration system that allows refrigeration to be activated at higher temperatures, providing faster cool downs and optimizing energy efficiency.



WhisperCool™ Environmental Control System

Our patented adaptive technology noticeably reduces operational noise, optimizes compressor and evaporator performance, decreases overall energy consumption, and prolongs compressor life. It is standard on select PolyScience Recirculating Chillers.

Glossary of Terms Continued

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DuraTop™

A precision molded phenolic top plate that remains cooler at high temperatures, is highly resistant to all but the strongest laboratory chemicals, and is easily cleaned and/or disinfected. DuraTop™ is standard on all PolyScience Circulating Baths, Open Tank Systems, Viscosity Baths, Calibration Baths and both the Histology and Coliform Baths.



LidDock™

An innovative design that provides for convenient, no-mess reservoir cover placement when adding liquid or working with samples. Available on PolyScience integrated Circulating Baths, the LidDock™ System allows condensate to drain back into the reservoir, yet doesn't interfere with controller viewing or operation.



OpenMode Programming

Unique to PolyScience Advanced Programmable Controllers, this feature places no restrictions on the number of time/temperature programs that can be stored or the number of steps a program can have. Limit is dependent on controller memory.



PolyScience[®]
Temperature Control Solutions[®]

Contact us if you have any further questions 

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