

THERMOSTATIC BATH

TVB 445 Bath for Viscosity Testing & More

*Ultra stable temperature control
and convenient visual monitoring
for a multitude of applications*

ASTM D 445

- Accommodates 7 capillary tubes, or 8 upon request
- Excellent temperature stability
- Easy to operate
- Compact, space-saving design with durable stainless steel housing and inner bath
- Built-in cooling coil for sub-ambient applications
- Bath windows and optional lighting for visual monitoring
- Multiple safety features
- Data export capabilities

ISL, in cooperation with Tamson, has developed the TVB 445—a new thermostatic bath specially designed for tests demanding ultra precise temperature control and/or for processes requiring visual monitoring. Conforming to all requirements for ASTM D 445, it is **perfectly adapted for viscosity measurement**, but also useful for thermometer calibration, crystal growing, density and reaction rate measurement, and much more.





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SPECIFICATIONS

Ordering Information

TVB 445 Thermostatic Bath with seven 50mm lidded openings to accommodate glass capillaries in holders. Additional 18mm opening for separate thermometer placement. Double-paned, safety glass windows in front and rear walls provide excellent visibility through bath. Built-in cooling coil enables sub-ambient applications. Specify 115V or 230V.

Performance

- Temperature Range
Upper: 230°C (446°F)
Lower: 5°K above ambient or temperature of cooling liquid
- Stability: ±0.01°C*
- Uniformity: ±0.01°C*
- Accuracy: 0.1°C setpoint to 199.9°, 1.0° setpoints from 200° up
* value measured in water @ 50°C (122°F)

Documentation

- Digital temperature display , °C or °F
- RS232 communication link

Safety

- Conforms to CE regulations
- Mechanical adjustable safety thermostat
- Microprocessor controlled electronic-/uP-system & heating elements

Physical

- Agitation by vane-type stirrer moves bath fluid in optimized path through bath, creating excellent temperature stability and uniformity
- All wetted parts made of stainless steel and PTFE, providing resistance against all usual bath fluids
- Viewing windows made of double-paned safety glass, separated by 20 mm airspace; condensation may occur on windows at sub-ambient temperatures; (WxH): 270 x 285 mm (10½" x 11")
- Flat, waterproof keyboard and display
- Drain enables easy removal of bath media
- Adjustable feet for perfect leveling
- Dimensions (WxDxH): 59 x 30 x 59 cm (23" x 11.7" x 23")
- Weight: 41 kg (110 lbs)
- Electrical: 230 V, 50/60 Hz or 115V, 60 Hz

Options & Accessories

- Viscosity Tube Cleaner VTC-6
- 8-Position Cover with openings/lids for 8 capillary tubes
- Bath Illuminator to light bath for visual monitoring; power connection for illuminator provided on back of TVB 445 unit
- Cooling Circulator to supply sub-ambient liquid to bath cooling coil
- Various capillary tubes, bath media, thermometers and reference materials also available. Please contact your PAC representative for additional information.

Due to our commitment to continual product development, specifications are subject to change without notice.

FOR ADDITIONAL INFORMATION

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