

The microprocessor-controlled TE-3000 series constant temperature bath, with integrated thermoelectric cooling, accommodates viscometer tubes requiring a bath depth up to 12" and provides reliable temperature control from -30 °C to 30 °C. The unit accommodates up to 2 simultaneous viscosity determinations and offers multi-unit networking capability.

Common Applications

- Formulated oil analysis
- Hydraulic oil analysis
- Additive analysis
- Marine fuel testing
- Base stock analysis
- Light and heavy fuel testing
- Waxes/paraffin
- Crude oil testing
- Glycols

TE-3000

Sub-Zero Constant Temperature Bath

For Kinematic Viscosity from -30 °C to 30 °C
ASTM D445/D446, ISO 3104/3105

Product Features & Benefits

Precise & accurate temperature control

- Temperature range: -30 °C to 30 °C ± 0.01 °C
- Meets ASTM D445 temperature sensitivity requirements for low temperature kinematic viscosity

Microprocessor-controlled temperature regulation & networking capabilities

- Desired bath temperature and calibration temperatures are digitally entered on the front panel keypad
- Integrated microprocessor automatically regulates bath temperature
- Both target and actual bath temperatures are monitored by an RTD temperature probe and continuously displayed in °C or °F on the LCD screen
- RS-232 and RS-485 communication ports provide data acquisition and multi-unit networking capabilities

Compact, user-friendly design

- Environmentally-friendly, integrated, thermoelectric air cooling requires no external refrigeration or air/water heat exchangers
- Two glass viscometer ports (each 2" in diameter) and one thermometer port (0.4" in diameter) allow up to 2 simultaneous viscosity determinations
- Baffle within the aluminum bath vessel facilitates circulation for uniform bath temperature and provides a plain viewing background
- Frost-free viewing window and internal illumination provide excellent visibility within the bath

Safe operation

- Bath thermistor senses over-temperature fault and removes power
- Thermistor disconnection results in removal of bath heater power

Reliable performance

- Well tested CANNON bath platform offers reliability and dependable support
- The heavy duty aluminum frame offers a corrosion-resistant epoxy finish



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TE-3000 Sub-Zero Constant Temperature Bath

Ordering Information

TE-3000 Sub-Zero Constant Temperature Bath consists of the bath unit and viscometer port covers. Viscometer tubes, holders and thermometer sold separately. Bath medium must be sourced separately.

Description	Part #
120 VAC, 50/60 Hz	9726-A70
240 VAC, 50/60 Hz	9726-A75

Accessories & Consumables

Description	Part #
Glass viscometers & holders	see website for options
Viscometer port covers	20.21
Dostmann digital thermometer	61.5600
Standard thermometer probe	61.5601

Product Specifications

Dimensions [W x D x H]	37.5 cm x 42.0 cm x 62.0 cm [14.8 in x 16.5 in x 24.4 in]
Weight	43.1 kg [95 lb]
Shipping dimensions [W x D x H]	Box 1: 50.8 cm x 53.3 cm x 53.3 cm [20 in x 21 in x 21 in] Box 2: 58.4 cm x 48.3 cm x 68.6 cm [23 in x 19 in x 27 in]
Shipping weight [with all items]	Box 1: 25 kg [55 lb] Box 2: 31.8 kg [70 lb]
Temperature range & accuracy	-30 °C to 30 °C ± 0.01 °C
Sample capacity	2
Bath height	12 in
Bath volume	2.5 L [0.66 gal]
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II; Pollution Degree 2
Electrical specifications	120 VAC, 50/60 Hz; 240 VAC, 50/60 Hz; 1,000 watts power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 VDC, 60 sec.); ROHS
Data output	RS-232 and RS-485

CANNON Instrument Company® provides a variety of physical property testing equipment and consumables [vials, bath fluids, and reference materials] for your testing needs. To learn more, contact sales@cannoninstrument.com.



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