

The microprocessor-controlled CT-2000 series constant temperature bath accommodates viscometer tubes requiring a bath depth up to 12" and provides reliable temperature control from 10 °C to 150 °C. The unit accommodates up to 7 simultaneous viscosity determinations and 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

# CT-2000

## Extended Range Constant Temperature Bath

For Kinematic Viscosity from 10 °C to 150 °C  
ASTM D445/D446, ISO 3104/3105

### Product Features & Benefits

#### Precise & accurate temperature control

- Temperature range: 10 °C to 150 °C\*
- Temperature accuracy:  $\pm 0.01$  °C from 10 °C to 100 °C;  $\pm 0.03$  °C from 100 °C to 150 °C
- Meets ASTM D445 temperature sensitivity requirements for kinematic viscosity determination
- Motor driven stirrer ensures a uniform bath temperature

#### 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



#### Efficient, user-friendly design

- Seven glass viscometer ports [each 2" in diameter] and two thermometer ports [each 0.4" in diameter] allow up to 7 simultaneous viscosity determinations\*\*
- Two electric heating elements quickly heat bath media to the selected temperature
- Stainless steel baffle provides a plain reflective viewing background
- Integrated stainless steel cooling coil allows connection to tap or recirculating water chiller for temperatures slightly above or below ambient. An external thermoelectric bath cooler is also available.
- Convenient drawer provides easy access to electrical controls
- Capable of using water or oil as bath medium

#### Safe operation

- Bath thermistor senses over-temperature fault and removes power
- Thermistor disconnection results in removal of bath heater power
- Liquid level sensor prevents operation if bath liquid is not at a safe operating level

#### Reliable performance

- Well tested CANNON bath platform offers reliability and dependable support
- All wetted components are manufactured from high quality stainless steel or glass
- The heavy duty aluminum frame offers a corrosion-resistant epoxy finish

\*Test temperatures <40 °C and high ambient temperature test environments require an optional bath cooler

\*\*Other port configurations are available as a special order



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# CT-2000 Extended Range Constant Temperature Bath

## Ordering Information

CT-2000 Extended Range Constant Temperature Bath consists of the bath unit and viscometer port covers. Viscometer tubes, holders, bath oil and thermometer sold separately.

Description	Part #
100-130 VAC, 50/60 Hz	9726-A30
200-250 VAC, 50/60 Hz	9726-A35

## Options

Part numbers are listed below for field installable options.

Description	Part #
Thermoelectric Bath Cooler [external]	
CBC-100 with U.S. plug	9726-D05
CBC-100 with non-U.S. plug	9726-D10

## Accessories & Consumables

Description	Part #
Glass viscometers & holders	various
Storage drawer	9726-A50
Port cover set [7 covers; 2 thermometer holders]	22.39
Bath oils	
IBF oxidation resistant bath oil [22.7 L/6 gal]	9726-L20
Silicone bath oil, 10 cSt [18.9 L, 5 gal]	9726-L30
Silicone bath oil, 20 cSt [18.9 L, 5 gal]	9726-L33
Silicone bath oil, 50 cSt [18.9 L, 5 gal]	9726-L36
Silicone bath oil, 10 cSt [3.8 L, 1 gal]	9726-L37
Silicone bath oil, 20 cSt [3.8 L, 1 gal]	9726-L38
Silicone bath oil, 50 cSt [3.8 L, 1 gal]	9726-L39
Dostmann digital thermometer	61.5600
Standard thermometer probe	61.5601
CANNON pressure/vacuum pump	9726-L96
3VM vacuum manifold, 3 valves	9726-V10
4VM vacuum manifold, 4 valves	9726-V05
Neoprene vacuum tubing, 10 ft [1/4 in bore x 5/8 in OD]	9726-V23
DVR-1000 [requires vacuum source]	
Available in vertical/horizontal and 120 VAC/240 VAC configurations	See flyer
DVR-1500 [with built-in vacuum pump]	
Available in vertical/horizontal and 120 VAC/240 VAC configurations	See flyer

## Product Specifications

Dimensions [W x D x H]	43.8 cm x 46.4 cm x 58.4 cm [17.3 in x 18.3 in x 23 in]
Weight	51.4 kg [113 lb]
Shipping dimensions [W x D x H]	61 cm x 50.8 cm x 109.2 cm [24 in x 20 in x 43 in]
Shipping weight [with all items]	56.7 kg [125 lb]
Temperature range & accuracy	10 °C to 100 °C ± 0.01 °C* 100°C to 150 °C ± 0.03 °C *Test temperatures <40 °C and high ambient temperature test environments require an optional bath cooler
Sample capacity	7
Bath height	12 in
Bath volume	17 L [4.5 gal]
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity [non-condensing], Installation Category II; Pollution Degree 2
Electrical specifications	100-130 VAC, 50/60 Hz; 200-250 VAC, 50/60 Hz; 1,400 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](mailto:sales@cannoninstrument.com).



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