

The CT-1000HT series constant temperature bath accommodates viscometer tubes requiring a bath depth up to 12" and provides reliable temperature control from 25 °C to 200 °C. The unit accommodates up to 7 simultaneous viscosity determinations.

#### 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-1000 HT

## Extended Range Constant Temperature Bath

For Kinematic Viscosity from 25 °C to 200 °C  
ASTM D445/D446, ISO 3104/3105

### Precise & accurate temperature control

- Temperature range: 25 °C to 200 °C\*
- Temperature accuracy:  $\pm 0.01$  °C from 25 °C to 100 °C;  $\pm 0.03$  °C from 100 °C to 200 °C
- Temperature selection is variable between 25 °C and 200 °C or selectable at ten pre-set temperatures (25 °C, 40 °C, 60 °C, 80 °C, 100 °C, 135 °C, 150 °C, 165 °C, 185 °C and 200 °C)
- Meets ASTM D445 temperature sensitivity requirements for kinematic viscosity determination
- Motor driven stirrer ensures a uniform bath temperature

### 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

### 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

### 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



Note: The PMX 200 silicone oils can begin to decompose at temperatures above 150 °C. The decomposition process emits formaldehyde. These oils remain serviceable to 200 °C, but adequate ventilation infrastructure is required.



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# CT-1000HT | Extended Range Constant Temperature Bath

## Ordering Information

CT-1000HT Extended Range Constant Temperature Bath consists of the bath unit and viscometer port covers. Viscometer tubes, holders, bath oil and thermometer are sold separately.

Description	Part #
120 VAC, 50/60 Hz	9726-A27
240 VAC, 50/60 Hz	9726-A29

## Options

NOTE: 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
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-3000	9726-T70

## Product Specifications

Dimensions (W x D x H)	43.8 cm x 46.4 cm x 58.4 cm (17.25 in x 18.25 in x 23 in)
Weight	43 kg (95 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	25 °C to 100 °C ± 0.01 °C* 100 °C to 200 °C ± 0.03 °C
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	120 VAC, 50/60 Hz; 240 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

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

†Other port configurations are available as a special order.

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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