

# LOW-TEMPERATURE BATH FOR VISCOSITY DETERMINATION ASTM D 445 – IP 71 – ISO 3104

The apparatus consists of a benchtop case hosting the bath and the cooling compressor. One important feature of this apparatus is that the bath is a stainless steel tank (no double-wall glass beaker is used) with a large tempered glass window for a clear view of the inside. The cover of the bath can host two Cannon-Fenske or Ubbelohde capillaries.



Benchtop version

- Enamel finished steel case, benchtop model or floor mounted with swivelling castors.
- Stainless steel bath (with drainage), 12 liters capacity with thermally insulated front window for a clear view of the inside: a second window on the rear of the tank is provided for the built-in light.
- High efficiency thermal insulation.
- Electric stirrer with stainless steel shaft and propeller.
- Thermally insulated bath cover with two holes for Cannon Fenske or Ubbelohde capillary viscometers. Control thermometer jacket placed between the two capillary holes.
- Stainless steel heater: while the compressor runs continuously, the heater, piloted by the electronic thermoregulator, compensates the heat subtracted by the compressor;
- Single stage (double stage for the -65 °C model) air cooled cooling compressor; both single and double stage circuits are filled with CFC/HCFC-free gas.
- High precision electronic thermostat. Probe: PT100 RTD. The regulation accuracy is  $\pm 0.01^{\circ}\text{C}$ .
- Digital setting of the desired bath temperature with  $0.01^{\circ}\text{C}$  accuracy.
- Safety devices against overheating and low-level.
- For 220 V/50 Hz connections: 1500 W power consumption.
- English written user manual.
- Dimensions for the benchtop model (l x w x h): 84 x 64 x 75 cm. Weight: 105 kg. One wooden crate dimensions (l x w x h): 100 x 80 x 100 cm. Shipping weight: 160 kg.
- Dimensions for the floor-mounted model (l x w x h): 75 x 75 x 120 cm. Weight: 180 kg. One wooden crate dimensions (l x w x h): 90 x 90 x 145 cm. Shipping weight: 250 kg.
- All models CE marked. Floor mounted versions also available.

AD0445-200 Apparatus with working range from  $+50^{\circ}\text{C}$  down to  $-25^{\circ}\text{C}$   
 AD0445-210 Apparatus for temperature from  $+50^{\circ}\text{C}$  down to  $-45^{\circ}\text{C}$   
 AD0445-220 Apparatus for temperature from  $+50^{\circ}\text{C}$  down to  $-65^{\circ}\text{C}$   
 Note: add suffix F for floor mounted version

#### ACCESSORIES

AD0445-A00 Battery chronograph  
 AD0445-A01 Portable digital thermometer with PT100 probe  
 CAL001 PT100 simulator  
 CAL003 Official Certificate for Pt100 simulator  
 Portable digital thermometer and glass thermometers can be supplied with official certificate

#### CONSUMABLES

TA072C-N00 ASTM 72C thermometer ( $-19.4^{\circ}\text{C}/-16.6^{\circ}\text{C}$ )  
 TA073C-N00 ASTM 73C thermometer ( $-41.4^{\circ}\text{C}/-38.5^{\circ}\text{C}$ )  
 TA074C-N00 ASTM 74C thermometer ( $-55.4^{\circ}\text{C}/-52.6^{\circ}\text{C}$ )  
 TA126C-N00 ASTM 126C thermometer ( $-27.4^{\circ}\text{C}/-24.6^{\circ}\text{C}$ )  
 TA127C-N00 ASTM 127C thermometer ( $-21.4^{\circ}\text{C}/-18.6^{\circ}\text{C}$ )  
 TA128C-N00 ASTM 128C thermometer ( $-1.4^{\circ}\text{C}/+1.4^{\circ}\text{C}$ )  
 AD0445-C00 Cannon-Fenske capillary holder  
 AD0445-C01 Ubbelohde capillary holder



Floor-mounted version

Specifications may vary without notice.

**The apparatus includes the items listed aside the picture, accessories etc. should be purchased separately.**



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