

'VISCOSITY BATHS'

Precision Controlled Viscosity Baths



'POS TEMP'

E270 VISCOSITY BATH



- Precision controlled, better than $\pm 0.01^\circ\text{C}$
- Temperatures from $+10^\circ\text{C}$ up to 120°C
- Essential for accurate determination of kinematic viscosity
- Meets the requirements of the 'Institute of Petroleum' & 'American Society for Testing and Materials'
- High visibility viewing windows allow clear observation of up to 8 viscometer

The **'POS TEMP'** Viscosity bath is designed for Kinematic Viscosity determinations to the stringent requirements of IP & ASTM standards. A specially designed stainless steel support lid holds up to 8 viscometer holders, each one can be independently levelled and checked using the circular spirit level.

For temperatures less than 10°C above ambient a simple water cooling coil or small refrigeration unit can be used. There is a full range of accessories available to make the 'POS TEMP' Viscosity bath simple to use, including a full range of IP/ASTM thermometers, viscometers and calibrated oil standards in 500ml sealed containers. Please see separate leaflet for full details of all accessories.

'NEG TEMP'

70 VISCOSITY BATH



- Precision controlled, better than $\pm 0.03^\circ\text{C}$
- Temperatures down to -70°C
- Essential for accurate determination of kinematic viscosity at low temperatures, conforming to IP71/ASTM D445
- Cooling of the heat exchanger can be achieved using solid CO_2 or one of the Townson + Mercer **'COOL IT'** refrigeration units
- Double glazed viewing windows allow good visibility even at these low temperatures

The **'NEG TEMP'** Viscosity bath is designed for Kinematic Viscosity determinations at temperatures down to -70°C . This bath comprises two large cylindrical Dewar vessels insulated to a high thermal standard and housed in a steel cabinet. One of the vessels is the working bath fitted with two clear viewing strips on opposite sides, enabling the contents to be observed. The second vessel holds the heat exchanger and coolants.

'COOL IT'

REFRIGERATION UNITS



- Five standard refrigeration units, with special units available on request
- Suitable for both **'POS TEMP'** & **'NEG TEMP'** Viscosity baths
- Can be used for other cooling applications

Detailed extraction rates are given in the specification table. However, as an aid the small unit will maintain a 40 litre insulated bath at 5°C to 10°C below ambient temperature, the medium size at 20°C to 30°C below ambient and the larger unit at 40°C to 50°C below ambient. These units can also be fitted with a control thermostat.

