

LOW TEMPERATURE KINEMATIC VISCOSITY BATHS

- Conform to ASTM D445, D2532
- Bath Temperature Stability and Uniformity of $\pm 0.05^{\circ}\text{C}$
- Mechanically Refrigerated to -75°C
- Digital Controller with 0.01°C Resolution
- Model with Working Temperature Range of $+150^{\circ}$ to -125°C

The kinematic viscosity baths conform to ASTM D445 and D2532 and related test method requirements for viscosity bath temperature stability and uniformity in the temperature range of from $+15^{\circ}$ to -75°C . A digital indicating PID temperature controller with 0.01°C resolution provides stability and uniformity of better than $\pm 0.05^{\circ}\text{C}$ as specified by ASTM D445 (when methyl alcohol or denatured ethyl alcohol are used as bath medium).

The bath jar is an evacuated, unsilvered Dewar flask. The jar is back-lit by a fluorescent light to facilitate reading of the meniscus in the viscometer tubes. A clear plastic viewing window protects the bath jar. Models have either 2 or 4 sample capacity.

Model 77 is configured to accept four 51 mm (2 inch) diameter holders. The 4 viscometer ports can be configured to any viscometer holder configuration by special request. Model 77 temperature range is $+15^{\circ}\text{C}$ to -60°C .

Model 79 is identical to Model 77 but with the operating temperature range of $+15^{\circ}$ to -70°C .

Model 78 is identical to Model 77 but with the operating temperature range of $+15^{\circ}$ to -35°C .

Model 74 has a capacity for 2 viscometers with a temperature range of $+15^{\circ}\text{C}$ to -30°C .

Also for Methods:

ASTM	D445, D2532
ISO	3104
IP	71
FTM	791-305
DIN	51 550
NF	T60-100

Model 75 has a capacity for 2 viscometers with a temperature range of $+15^{\circ}\text{C}$ to -35°C .

Model 77AV is identical to Model 77 but configured to accept either 1 or 2 Schott automated AVS or TC viscometer holders. It can also be configured to accept one or two automated viscometers by other manufacturers.

Model 81XL when cooled with an external cryostat (or liquid nitrogen) is able to achieve -125°C . The temperature range can be extended to $+150^{\circ}\text{C}$ when used without the cryostat. Temperature stability at above ambient is $\pm 0.02^{\circ}\text{C}$. The unit is similar to Model 77 but without mechanical refrigeration.



▲ Model 77

▶ AVAILABLE MODELS

Model No.	Operating Temperature	Remarks	Dimensions inches (cm)	Ship. Weight lbs/cu.ft
74	$+15^{\circ}$ to -30°C	2 Test Positions	18 x 22 x 34 (45 x 55 x 85)	250/15
75	$+15^{\circ}$ to -35°C	2 Test Positions	18 x 22 x 34 (45 x 55 x 85)	250/15
77	$+15^{\circ}$ to -60°C	4 Test Positions	22 x 24 x 26 (56 x 61 x 66)	300/17
77AV	$+15^{\circ}$ to -60°C	2 Automated Viscometers	22 x 24 x 26 (56 x 61 x 66)	300/17
78	$+15^{\circ}$ to -35°C	4 Test Positions	22 x 24 x 26 (56 x 61 x 66)	250/17
79	$+15^{\circ}$ to -70°C	4 Test Positions	22 x 24 x 26 (56 x 61 x 66)	300/17
81XL	$+150^{\circ}$ to -125°C	4 Test Positions (needs external Cryostat)	22 x 22 x 26 (55 x 66 x 66)	250/17