

'VISCOSITY BATHS'

Precision Controlled Viscosity Baths



Specifications					
Model	'POS TEMP' E270 Viscosity bath E270 Series IV.		'NEG TEMP' -70 Viscosity bath		
Construction - Case	Powder Coated Steel		Powder Coated Steel		
- Tank	Stainless Steel		Glass Dewar Flasks		
External Dimensions	670 x 320 x 610 mm (L x W x H)		610 x 390 x 880 mm (L x W x H)		
Height of main case	470 mm		560 mm		
Working Space	390 x 255 x 390 mm (L x W x H)		180 dia x 280 mm deep		
Viewing Window	375 x 340 mm		50 x 325 mm		
Heaters / Refrigeration	Two 1000 watt boost heaters, which can be controlled manually or automatically. Permanent load up to 420 watts and a 600 watt thermostat controlled heater		Large refrigeration unit for use down to -30 °C (Catalogue No 04800282). Duplex refrigeration unit for use down to -70 °C (Catalogue No 04800488)		
Power	Max 3100 watts		200 watts (excluding refrigeration)		
Supply	220/240 Volts 50 Hz Single Phase		220/240 Volts 50 Hz Single Phase		
Weight Nett (empty)	38 kg		34 kg (excluding refrigeration)		
Weight Packed	48 kg		50 kg (excluding refrigeration)		
Packed Dimension	860 x 460 x 800 mm (L x W x H)		740 x 480 x 1000 mm (L x W x H)		
Performance					
	'POS TEMP' E270 Viscosity bath		'NEG TEMP' -70 Viscosity bath		
Complies with the relevant requirements of	BS 188, BS 2000, ASTM D445, IP 71, ISO 3104, DIN 51550, PT 71, FTM 791-305		BS 188, BS 2000, ASTM D445, IP 71, ISO 3104, DIN 51550, PT 71, FTM 791-305		
Temp Range	120 °C Maximum, minimum temperature dependent on coolant system used		Down to -30 °C with large refrigeration unit. Down to -70 °C with Duplex refrigeration unit		
Heating / Cooling time	40 °C - Water filled 1 hour 100 °C - Oil filled 1.25 hours		Depends on fridge used		
Temperature control	Better than ±0.01 °C throughout the range		Better than ±0.03 °C throughout the range		
Ordering Details					
	Catalogue No.		Catalogue No.	Viscometer & Thermometer Accessories	Catalogue No.
'POS TEMP' E270	04400424	'NEG TEMP' -70	04400259	Universal viscometer holder	04400149
ACCESSORIES FOR 'POS TEMP'		ACCESSORIES FOR 'NEG TEMP'		Adaptor ring for 50 mm viscometer holder	04005245
Small Refrigeration Unit	04800220	Large refrigeration unit	04800282	Circular spirit level	04400156
Plain metal lid	04400077	Duplex refrigeration unit	04800488	Rubber caps for viscometer holders	04400170
Viscometer lid with 8 holes	04400091	2 Hole viscometer lid	04400266	Bench viscometer stand	04400187
Opal glass diffuser screen	04400132	Fluorescent lighting unit	04400273	Townson + Mercer Thermometer holder	04900144
Fluorescent lighting unit with 2 tubes for attachment to the back of the bath	04400118			Plastic covers with insulation handle for vacant viscometer openings	04400163
Cooling coil to use with water	04400101			Pump for external circulation and emptying bath up to 100 °C	09000970

'COOL IT' Refrigeration Units

Specification, Performance and Ordering Details						
	Small	Medium	Large	Large	Duplex	
External Dimensions	410 x 280 x 250 mm	410 x 280 x 250 mm	500 x 360 x 330 mm	500 x 360 x 330 mm	610 x 610 x 610 mm	
Evaporator Coil (Type)	Flat	Triple helix	Triple helix	Helix	Helix	
Evaporator Coil (Size)	180 x 180 x 25 mm	205 x 205 x 65 mm	205 x 205 x 65 mm	130 mm Ø x 21 mm long	130 mm Ø x 21 mm long	
Weight Nett	18 kg	21 kg	43 kg	43 kg	57 kg	
Catalogue No	04800220	04800244	04800275	04800282	04800488	
	Small	Medium	Large	Large	Duplex	
Temp	Extraction Rates J/s or Watts				Temp	Extraction Rates J/s or Watts
+20 °C	146	161	440	440	-40	250
+10 °C	124	146	426	426	-50	195
0 °C	88	117	410	410	-60	150
-10 °C	73	95	380	380	-70	115
-20 °C	-	73	300	300	-80	100
-40 °C	-	-	75	75		

In accordance with our policy of continual improvement in design we reserve the right to depart from details in this publication without prior notice.