

Heating/Cooling Bath/Circulator



LB low temperature bath/circulators with integral refrigeration provide a source of precision controlled cooling for many types of scientific apparatus, and for all procedures where temperature stability and uniformity are vital.

Applications

- For direct immersion of samples
- For use as a source of refrigerated, temperature controlled liquid for controlling the temperature of other apparatus.
- Used only in closed systems.

Features

- Digital setting and display to ensure accuracy and reproducibility of procedures
- Compact design with integral refrigeration unit
- Actual bath temperature is constantly displayed for assurance that equipment is operating properly
- Device to prevent accidental alteration of set temperature
- Ozone friendly refrigerant
- Concise working instructions are printed on outer case for permanent reference

Construction

Each unit consists of a stainless steel tank nestled neatly above a refrigeration unit all housed in an outer case. A control unit with its heater, stirrer, pump and temperature sensors project down into the bath. A heat exchange coil lines the inside of the tank and the LB-2000 utilizes a circulation tray to enhance performance. Two types of racks are available for these baths: QR and VR. The 6 Liter bath holds 1 QR rack and the 20 Liter bath holds 2 VR racks.

- Heating/cool bath and circulators provide a source of precision controlled cooling for many types of scientific apparatus
- -30 to 100°C operation-wide temperature range for flexibility of application
- Available in 6 or 20 liter
- Three year warranty
- Wide temperature range allows one unit to have numerous applications
- Precisely controlled conditions for temperature sensitive applications
- Powerful compressors for rapid cool down and high heat extraction
- Quiet operation maintains a peaceful working environment

Specifications

Tank Capacity	6 liters	20 liters
Working Area, L x W	11 x 14 cm (4.3 x 5.7 in)	20 x 29 cm (7.9 x 11.4 in)
Liquid Depth:		
Minimum	9 cm (3.5 in)	9 cm (3.5 in)
Maximum	14 cm (5.7 in)	14 cm (5.7 in)
Temperature Range		
Ambient 20°C	-20 to 100°C	-30 to 100°C
Stability (DIN 58966) at -10°C*	±0.015	±0.02
Uniformity at -10°C*	±0.02	±0.05
Temperature Setting	Digital	Digital
Temperature Display	LCD	LCD
Display Resolution	0.1°C	0.1°C
Cooling Power:		
At 20°C	250	900
Ambient 20°C at 0°C	140	500
At -10°C	100	300
At -20°C	35	180
Heater Power	0.9 kW	0.9 kW
Overall Consumption	1.3 kW	1.3 kW
Pump:		
Maximum Head	1.7 m (5.6 ft)	1.7 m (5.6 ft)
Maximum Flow, Water	8.5 L/min	8.5 L/min
Pipe Bore	6 mm	6 mm
Weight	24 kg (52.8 lb)	50 kg (110 lb)
Dimensions, H x W x D	50.5 x 39.5 x 22.5 cm (19.9 x 15.6 x 8.9 in)	63 x 47 x 39 cm (24.8 x 18.5 x 15.4 in)
Safety:		
Over Temperature	Adjustable cut-out	Adjustable cut-out
Under Temperature	Switchable thermostat	Switchable thermostat
Level	Float switch	Float switch
Electrical Supply	115 V, 60 Hz	115 V, 60 Hz

Catalog No. Product

CGS 8349.78	Heating/Cooling Bath/Circulator, 6 Liters
CGS 8350.78	Heating/Cooling Bath/Circulator, 20 Liters

Heating/Cooling Bath/Circulator Racks

For	QR	VR
10 to 13 mm Tubes	CGS-8351.78	CGS-8357.78
16 to 19 mm Tubes	CGS-8352.78	CGS-8358.78
24 mm Tubes	CGS-8353.78	CGS-8359.78
30 mm Tubes	CGS-8354.78	CGS-8360.78
0.5 ml U Tubes	CGS-8355.78	CGS-8361.78
1.5 ml U Tubes	CGS-8356.78	CGS-8362.78