



LOW TEMPERATURE BATH CIRCULATOR

Model TLC10B

This type of cooling circulator is mostly used for replacing tapwater used for cooling purposes in laboratory equipment or processes. The bath content is 9 litres

Control mechanism

The used cooling system is ozone friendly, so it doesn't contain any CFK/HCFK gas. With the compressor running continuously, the fluid temperature is regulated through an electronic controlled heater.

Span

The TLC10b offers following working range:

-45 to +20°C / -49 .. 68 °F

The setpoint can be set in steps of 0,1 °. The overall system accuracy is better than $\pm 0,1$ °K. Standard available in °C, on request in °F.

Pump

A pressure pump provides circulation in the bath or via an external circuit. The pressure of the pump is 300 mBar at 7,5 ltrs per minute.

Safety

The bath conforms CE regulation. It is further equipped with a mechanical adjustable and resettable safety thermostat.

Optional equipment

- Remote control via RS232
- Suction/pressure Z pump, for circulation of bath-fluid through open vessels. Not suited for foaming fluids

- Two way slide valve in combination with the Z pump. Permits circulation via open or closed systems

Technical specifications:

Range -45 °C..20 °C (-49 °F..68 °F)

Reading Standard °C, °F on request

Used materials inside bath Stainless Steel 304, PTFE

Setting \pm [°K] 0,1

Stability* \pm [°K] Better than 0,1

Heating [W] 1500

Heaters 1

Bath volume [L] 9

Pump pressure [mm H2O] 300

Pump cap. L/min 7,5

Compressor Hp 1/3

Heat removal

[W] @10 °C : 680

[W] @0 °C : 560

[W] @-10 °C : 480

[W] @-20 °C : 380

[W] @-30 °C : 265

[W] @-40 °C : 170

Opening [mm] 100*150

Depth [mm] 200 x Length [mm] 260 x Width [mm] 550

Height [mm] 770 x Weight [Kg] 61,5 x Power [W] 2420

All models conform CE regulation