



Thermostatic Water Bath

LB-12TWB

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1. Introduction

Thermostatic water bath LB-12TWB is a microprocessor-controlled unit. It is equipped with a temperature controller for continual monitoring. It features a digital screen to display the set temperature and actual temperature.

2. Features

1. PID controller
2. Working chamber and lid made of stainless steel304
3. Outer part material: cold-rolled steel 08F
4. Digital display of temperatures
5. 1 - Row, 2 - cabinet working chamber

3. Specifications

Model No.	LB-12TWB
Interior dimension	310 × 155×170 mm
Capacity	8 L
Temperature range	5 °C ~ 100 °C
Temperature tolerance	± 0.3 °C
Working chamber row	1
Working chamber cabinet	2
Temperature display mode	Digital
Timer	0 ~ 99 hrs.
Power	550 W
Voltage	220 V, 50 Hz
Exterior dimension	440 × 190 × 220 mm
Weight	7.5 Kgs

4. Applications

Used in college laboratories, mining industries and scientific research industries.

5. Operations

5.1 Set temperature

- 1) Press the SET key to set the temperature and after pressing the SET key data on the lower line digital tube will flash (the upper low measure temperature normally) which means the meter enters the status of the temperature setting.
- 2) Press Δ the key to increase the set value and press A a key to decrease the set value if continuously press the increase or decrease key set value will change rapidly.
- 3) Press the SET key again and the meter returns to temperature under working status and the setting is finished.

5.2 Parameter setting

- 1) Press the SET key for 3 seconds to enter the setting status of the internal menu.
- 2) **E:** Offset of proportion zone, parameter E can move the actual control point. Even though the center of time proportion moves, value E can be positive or negative depending on the heating system.
- 3) **P:** Proportion zone that is the proportion control value for easy understanding and for the proportion zone to have bigger representation space the proportion zone of this meter is a unilateral proportion zone that the proportion is twice the value P with the actual control point as center output heating proportion within a range of value P from down to up is evenly distributed at 0% - 100%.
- 4) **T:** The heating output circulation period, that is working circulation period of relay Value T is small and the control effect is good, but if value T is too small relay's lifetime will shorten due to frequent working. Generally, the value of T is in 20-40s.
- 5) **For example:** If P is set to 4.0 (actual proportion zone is 8.0), the temperature is set to 60.0°C, and E is set to 2.0 the actual control point is 58.0°C. When the temperature reaches 54.0 temperature reaches the meter will enter the status of proportion zone control.

5.3 Correction of error

- 1) When confirming that the displayed value on the meter is not the correct measured value correct displayed value.
- 2) Press the SET key for 3 seconds to enter the internal menu of the meter and the first parameter that appears is E press the SET key meter data will flash this flashing parameter is the correcting parameter of error and press Δ or A key to correct this parameter.
- 3) The correction range of error is -9.9°C - + 9.9 °C.
- 4) Press the SET key again and parameters P and T will appear one by one then press the SET key again to exit.
- 5) Correction value of meter when ex-work is 0.
- 6) When using, one shall prevent the correct meter from being corrected incorrectly.