

LABORATORY EQUIPMENT REFRIGERATED INCUBATOR

(+22°C)

Image: TMLR-200

Below example shown with shaker inside. LED internal lighting shown to ensure easy viewing of samples and products.



AUSTRALIAN MADE REFRIGERATED INCUBATOR

- Specifically designed for the operation of powered laboratory equipment with heat output up to 200 watts
- Independant power supply for equipment placed inside
- Temperature is factory set at 22°C
- Audible and visual alarms
- STAR X 10" touch screen controller with logging
- Forced air circulation provides uniform air flow and temperature control
- Lockable castors for easy movement
- Battery backup for logging and alarm systems only



PRODUCT DETAILS

This Australian made refrigerated incubator has been specifically designed to house laboratory equipment in a controlled environment. The laboratory equipment plugs into an independent power outlet outside of the incubator. The temperature is factory set at 22°C, however the cabinet can operate between 20°C and 24°C in a 30°C ambient. The STAR X 10" touch screen controller allows for accurate temperature control as well as a range of logging features such as alarms and temperature charts. The incubator has a key lockable glass door and password protected controller.

Safety Devices

10" colour touch screen controller with battery backup and is password protected

High and low temperature alarms

Power loss alarm

BMS contacts to connect to a building management system

Audible and visual alarms are activated when the temperature deviates by 2°C from the set temperature



The incubator has a unique auto-test feature which allows for two main functions:

1) Alarm test: By accessing the temperature auto-test, the user is able to see a simulation of a high temperature alarm (24°C) and a low temperature alarm (20°C) without affecting the actual temperature inside the cabinet. This simulation will trigger the BMS relay so the remote monitoring of the alarms can also be checked.

- Decreases to 20.0°C in 2 minutes.
- Holds 20.0°C for 4 minutes.
- Increase to 24.0°C in 4 minutes.
- Holds 24.0°C for 4 minutes, then stops and recovers naturally.

2) Calibration test: This allows a Calibration Technician to check the linear accuracy over a 10.0°C range. Alarms will also be activated during this test.

- Decreases to 17.0°C in 5 minutes.
- Holds 17.0°C for 15 minutes.
- Increase to 27.0°C in 10 minutes.
- Holds 27.0°C for 15 minutes, then stops and recovers naturally.

Every 7 days there is an automated Battery Health Test. This test disconnects the battery charger and if the voltage drops below 22vDC in 5 minutes, an alarm is triggered notifying the operator that the battery has failed.

Model	TMLR-200
Temperature Range	20°C to 24°C at ±1°C (factory set at 22°C)
Temperature Control	STAR X 10" colour touch screen, Networkable, Control via PC if needed
Alarms	Audible deviation alarm (high and low), visual alarm and power loss alarm
Recording	Temperature and alarm recording (download via USB to CSV format)
Internal Dimensions (WxDxH mm)	600 x 550 x 530
External Dimensions (WxDxH mm)	740 x 840 x 1100
Refrigeration	Internal equipment maximum heat output of 200 watts
Electrical	240V 4A
Weight (kg when empty)	90

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