

Detailed Specification

TEB1000 Bioreactor

1. Introduction

The TEB1000 provides the ideal conditions for growing and developing tissue cultures under accurately controlled flow conditions. It has the functionality of a CO₂ incubator but incorporates an integrated double peristaltic pumping system.

2. Capacity

The chamber has 170 litres capacity.

3. Interfaces

The TEB1000 features colour touchscreen control and a door-mounted touch-sensitive keypad.

4. Size

Physical dimensions: 686 x 848 x 803mm (L x H x D).

Weight: 140kg

5. Operating Temperature

The bioreactor is designed to operate at a chamber temperature of 4°C above ambient and at an absolute minimum ambient temperature of 15°C if the unit is being used at 37°C.

6. Pre-Fitted Pumpheads

Two x 314D pumpheads are fitted in the TEB1000. These are four-roller, flip-top pumpheads designed for easy loading of the 1.6mm tubing.

7. Programmable Alarms

Alarms can be programmed to notify when the door is open; of high and low temperature; and high and low CO₂ (for example, when the door has been opened and the levels are not recovered within a pre-set time).

8. Humidity Control

95% at 37°C

9. CO₂ Control

Solid-state infrared CO₂ sensor operating independent of humidity. Fully automatic CO₂ zeroing facility. Range: 0.2-20%. Control: +/- 0.1%.

10. UKAS Calibration/Validation

Don Whitley Scientific is UKAS accredited so can offer UK customers validation and calibration of the TEB1000. Factory calibration is carried out on the bioreactor at 37°C, 5.0% CO₂ and 95% RH in an ambient temperature of 20-25°C with no heat generating equipment inside the chamber.