**Froilabo**

Precision for life

# BIO SCIENTIFIC

## Laboratory Incubator - BS60

## Precise, Homogenous, Intuitive

The incubator is the heart of any laboratory handling living biological systems, ensuring the stable environment necessary for their survival and growth.

Our new Bio Scientific incubators are accurate and durable with forced convection for better performance. They offer a modern, intuitive touchscreen interface with upgradeable software, and support capacities from 60 to 240 liters making them suitable for low and high numbers of samples.

| MODELS AVAILABLE | 60 L |
|---|---|
| Bio Scientific, plain door | BS60 |
| **WARRANTY** | |
| Parts | 2 years |

Intuitive Touchscreen Interface

Perfect Temperature Homogeneity

160ºC Sterilization Cycle

# Technical Specifications

## BIO SCIENTIFIC - LABORATORY INCUBATOR

| MODEL | BS60 |
|---|---|

### ▤ GENERAL SPECIFICATION

| | |
|---|---|
| Net Volume | 58 L |
| Ext Dimension (WxDxH) | 530 x 630 x 740 mm |
| Int Dimension (WxDxH) | 400 x 370 x 390 mm |
| Ext Construction | Electrogalvanised steel with epoxy paint |
| Int Construction | Brushed stainless steel inner tank |
| Net weight | 44 kg |
| Standard construction | 1 fully closed door, easy hands-free closure  / 1 power cord (1.5m) |
| Shelves (WxD) | 380 x 320 mm: 1 anti-tilt stainless steel perforated shelf as standard (max/shelf: 20 kg distributed).<br>Maximum numbers of shelves: 8  (max total weight: 50 kg) |
| Ambient temperature | From +18°C to +32°C |
| Use | Indoor use only |
| Environment | Not designed for use in explosive atmospheres (ATEX) |
| Warranty | 2 years |

### CONTROL

| | |
|---|---|
| Display | 7 inch Touch Screen, compatible with use of gloves |
| Software | Embedded and upgradable software: • Manual mode including realtime temperature value, set temperature value, realtime temperature profile • Automatic program mode including scheduler overview • 5 preset programs: 5 different programs • program settings : program name editing, step configuration including up to 16 different temperatures, ramp time, stabilisation time, etc. |
| Languages | English, French, Spanish, Chinese, German, Romanian |
| Remote Access | Unit can be connected to a computer to allow a remote access |
| Data | Temperature profiles, alarms can be exported on USB stick (CSV file format) |
| Settings | • Alarms • Brightness • Date/Time • User profile login: user, admin and service access • Language • Ethernet |
| Communication | USB port, Ethernet Port |

### ♨ HEATING SYSTEM

| | |
|---|---|
| System | Heating convection ensured by fan (no risk of conduction or radiation) |
| Ventilation | Turbine ventilation ensuring temperature homogeneity |
| Air Flow Control | Adjustable on the front, rear exhaust |

### ⚡ ELECTRIC AND ELECTRONIC DATA

| | |
|---|---|
| Controller type | Electronic PID self regulating and self-adaptive |
| Temperature probe | 1 x Pt100 3 wires probe |
| List of alarms | High temperature / Over temperature safety class II according to the European standard EN 61010-2-010 (DIN 3.1 equivalent) |
| Type of alarm | Visual |
| Energy consumption | 750W |
| Types of power supply | 230 V 50 Hz + T / 208V/60Hz (on demand) / 110V 50/60Hz (on demand) |

### 🌡 PERFORMANCES (AMBIENT TEMPERATURE : 22°C)

| | |
|---|---|
| Temperature range | Amb +5°C to 100°C, 1/10th degree display (set and actual temperature) |
| Temporal stability | +/-0.1°C |
| Homogenity at +37°C | +/-0.5 °C |

### ✦ STERILIZATION

| | |
|---|---|
| Type of sterilization | Thermo-disinfection by dry heat at 160°C for 2h30 / Orange screen displayed during program running |
| Starting method | Cycle start with a user's validation.<br>During cycle a specific message is displayed "Sterilization cycle in progress" with flashing at the top of the screen |

### ⇄ OPTIONS & CONFORMITIES

| | |
|---|---|
| Options | • Key door lock<br>• 4 castors (80 mm diameter, including 2 with brakes)<br>• Stainless steel wire shelf<br>• Stainless steel shelf with anti-tip safety (380 x 320 mm)<br>• Stacking kit including 2 spacers, a tool and an explanatory note<br>• Base without wheels<br>• Base with 4 casters (Diam: 80 mm, 2 with brakes, height: 250 mm)<br>• Additional cable entry port 50 mm with sealing plug<br>• Additional Pt 100 Ohms probe + DIN plug for recorder connection<br>• PT 100 Ohms probe, delivered with 3 points COFRAC verification<br>• External door with glass, viewing door |
| Supplied with | 1 Shelf, 1 power cord & User manual |
| Certification / Conformities | Equipment meets the specifications and CE compliant to:<br>• **EN60068-3-11**<br>• **2014/35/UE − Low voltage directive**<br>• **2014/30/UE − EMC directive, Class A device** |
| Shipping weight | 58 kg |
| Shipping dimension (WxDxH) | 570 x 710 x 910 mm |