



# BIO REFRIGERATED SCIENTIFIC

## Laboratory Refrigerated Incubator - BRS240



### Precise, Homogenous, Intuitive

The incubator is the heart of any laboratory handling living biological systems. Refrigerated versions ensure optimal conditions for survival and growth of micro-organisms with incubation temperatures between 5°C to 30°C.

Our new Bio Refrigerated 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                        | 240 L   |
|-----------------------------------------|---------|
| Bio Refrigerated Scientific, plain door | BRS240  |
| WARRANTY                                |         |
| Parts                                   | 2 years |



Intuitive  
Touchscreen  
Interface



Perfect  
Temperature  
Homogeneity



160°C  
Sterilization  
Cycle

# Technical Specifications

| BIO SCIENTIFIC - LABORATORY INCUBATORS    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| MODEL                                     | BRS240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| GENERAL SPECIFICATION                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Net Volume                                | 230 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Ext Dimension (WxDxH)                     | 626 x 680 x 1600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Int Dimension (WxDxH)                     | 456 x 500 x 980 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Ext Construction                          | Electrogalvanised steel with epoxy paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Int Construction                          | Brushed stainless steel inner tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Net weight                                | 119 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Standard construction                     | 1 fully closed door, easy hands-free closure / 1 power cord (1.5m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Shelves (WxD)                             | 480 x 430 m : 2 anti-tilt stainless steel perforated shelf as standard (max/shelf: 35 kg distributed).<br>Maximum numbers of shelves: 18 (max total weight: 90 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                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Cooling system                            | Hermetic compressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Heating system                            | Heating convection ensured by fan (no risk of conduction or radiation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Ventilation                               | Turbine ventilation ensuring temperature homogeneity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Air Renewal                               | 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                        | 2400W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 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                         | 0°C to 100°C, (factory setting +4°C to 100°C) 1/10th degree display (set and actual temperature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Temporal stability                        | +/-0.1°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Homogeneity 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                                   | <div><div><ul style="list-style-type: none"><li>• Key door lock</li><li>• 4 castors (80 mm diameter, including 2 with brakes)</li><li>• Stainless steel wire shelf</li><li>• Stainless steel shelf with anti-tip safety (480 x 430 mm)</li><li>• Stacking kit including 2 spacers, a tool and an explanatory note</li><li>• Base without wheels</li></ul></div><div><ul style="list-style-type: none"><li>• Base with 4 wheels. Diameter 80 mm including 2 with brakes</li><li>• Additional cable entry port 50 mm with sealing plug</li><li>• Additional Pt 100 Ohms probe + DIN plug for recorder connection</li><li>• PT 100 Ohms probe, delivered with 3 points COFRAC verification</li><li>• External door with glass, viewing door</li></ul></div></div> |  |
| Supplied with                             | 1 Shelf, 1 power cord & User manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Certification / Conformities              | Equipment meets the specifications and CE compliant to:<br>• <b>EN60068-3-11</b><br>• <b>2014/35/UE – Low voltage directive</b><br>• <b>2014/30/UE – EMC directive, Class A device</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Shipping weight                           | 137 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Shipping dimension (WxDxH)                | 670 x 750 x 1780 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |