

**BS 48**[™]

BIOSAFETY CHANGING STATION

- **Double configuration Class 2 biosafety cabinet & cage changing**
- **TÜV certificate**
- **Safety**
- **Ergonomically designed**



"BS48 is unquestionably the stronghold of our lab animal equipment: it guarantees the absolute health safety which is required for the quality of the current and future needs of biomedical research".

TECNIPLAST[®]
innovation through passionSM

1/Double configuration Class 2 biosafety cabinet & cage changing

BS48 is a cabinet designed for animal research laboratories and it is configurable by the operator for two different kinds of use. The operator, with the simple choice of the proper frames of the working area, can carry out cage changing operations or minor procedure in Class II Biohazard Configuration. When you change configuration in BSC2 mode, the height of the access opening is 250 mm, complying with EN 12469 norms.

BIOHAZARD CONFIGURATION: Through the simple substitution of the removable frames of the working area, the cabinet automatically configures in class II BSC version, modifying the velocity of the frontal barrier so that it complies with EN 12469 norms for class II BSC. The work surface for BSC II configuration is composed of four drilled stainless steel frames easily removable and autoclavable.

CAGE CHANGING CONFIGURATION: The work surface for the cage changing is composed of two easily removable frames, built in soundabsorbent, anti-scratch and autoclavable material. In this configuration, the height access opening is 290 mm.

2/TÜV certificate

BS48 is the first and only TÜV certified and GS-TÜV mark Biosafety Changing Station designed both for cage changing and experimental procedure biohazard class 2 configuration complying with the European Standard EN 12469. EN 12469 European Standard specifies the minimum performance criteria for safety cabinets for work with microorganisms and specifies test procedures for microbiological safety cabinets (MSCs) with respect to protection of the worker and the environment, product protection and cross contamination. The TÜV certification is synonymous with a high quality product and controlled and accurate manufacturing process.

3/Safety

The machine is provided with all the alarms required by the international standards for class II Biosafety Cabinets which comply with the EN 12469 norms. The alarms are activated when the velocity of the laminar air flow or of the air curtain drops below or exceeds the set point, or when a power failure occurs (in that case, when the current comes back the machine automatically reactivates the ventilation, while the display shows the power failure and its duration), or when the access glass is open. Protection for operator, animals and working environment complying with the requirements of the international standards for class II Biosafety Cabinets.

4/Ergonomically designed

BS48 is ergonomically designed for maximum user comfort thanks to the slanted glass panel. The opening access has a slanted glass panel, with an inclination of 10°; the main HEPA filter and the rear wall are also inclined, which allows a constant laminar flow without dead zones that create turbulences. The 10° inclination of the glass allows good visibility of the work surface and inside the cages. Viewscreen in safety glass allow good visibility inside the work cabinet and reduce glare.

5/Microprocessor controls

The machine is provided with a control system with a microprocessor which automatically controls the velocity of the laminar air flow and of the air curtain and which constantly monitors the working condition of the cabinet. The alarms of the cabinet comply with EN 12469 norms. Soft touch electronic control with luminescent graphic display located in an easily accessible position. Thanks to the graphic display, a menu with diagnostics enables the operator to check the conditions of the HEPA filters and of the UV-C lamp and receive precise updates on scheduled maintenance, the established date of replacement and the date of the last DOP test carried out.

6/Standard UV-C light

Integrated in the back of the unit, the UV motorized system opens the door of the UV-C lamp; it does not create turbulences in the laminar flow since it folds away into the rear of the wall, 90° to its previous position. The duration of the sterilization cycle may be programmed via the control panel.

7/Easy service and maintenance

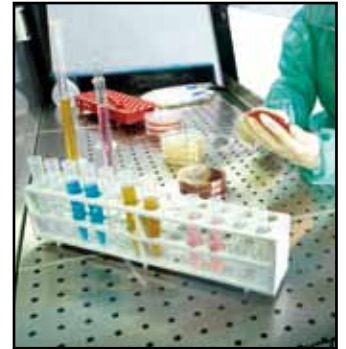
BS48 is very easy to clean since all the inner and outer surfaces have rounded corners. The pre-filter support is U-shaped, preventing dust from bypassing the pre-filters. The access to the HEPA filters and to the motorblower is made easier by a removable panel.



LAMINAR FLOW

BS48 Biosafety Changing Station

Double configuration Class 2 biosafety cabinet & cage changing



Biohazard configuration



Cage changing configuration

TÜV certificate



Safety **3**



- Clean HEPA Filtered Air
- Room Air
- Mixed Room and HEPA Filtered Air

Ergonomically designed **4**



Microprocessor controls **5**



TECHNICAL SHEET

External dimensions (W x D x H):

1395 x 865 x 1500 mm.
54,92 x 34,06 x 59,06 inch.

Chamber dimensions (W x D x H):

1160 x 565 x 590 mm.
45,67 x 22,24 x 23,23 inch.

Access opening height:

250/290 mm.
9,84/11,42 inch.

Weight:

270 Kg.
595,25 pound.

HEPA filter efficiency H-14 EN 1822 (MPPS):

99,995%.

Recirculation/Exhaust:

60%/40%.

Exhaust air volume:

650 m³/h.
382,6 cfm.

Noise level:

55 dB(A).

Air velocity - downflow:

0,25±0,5 m/s.
49,21±98,43 ft/min.

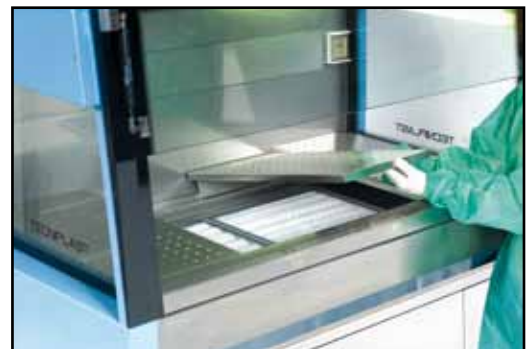
Air curtain velocity:

0,45 m/s.
88,58 ft/min.

Standard UV-C light **6**



Easy service and maintenance **7**



Accessories

- Mobile base electric auto lift.
- Self standing support: The customer may choose among three different heights during the installation.
- Thimble connection: this allows the BS48 to be thimble-ducted to the outside with minimal disturbance to the enclosure airflow. The Thimble provides an air gap to allow room air to enter the ductwork and mix with the filtered air being exhausted to the outside. Exhaust outlet is Ø 250 mm.
- Solenoid controlled fail-safe gas fitting.
- Taps for compressed air.
- Taps for vacuum.
- Taps for N₂.
- Water tap.

Related Products

To maximise operational efficiency and learn more about these products contact your local representative.



GP Decontamination Lock. Full decontamination cycle, with 6 log reduction, in one hour all inclusive. The unit may be used with Vaporized Hydrogen Peroxide generators from different vendors, gaseous Chlorine Dioxide generators and for chemical fogging.



Sealsafe Plus: high containment, certified protection from allergens, high density and practicality of use. The IVC (r)evolution.



Logistic trolleys offer safety and ergonomic features that enable high load-density for moving cages and bottles, crates, pallets and covers.

 **TECNIPLAST**

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