

BS48:
THE FIRST AND ONLY
BIOSAFETY CHANGING STATION
WITH CHANGEABLE
CONFIGURATION DESIGNED
FOR ANIMAL RESEARCH
LABORATORIES.
SUITABLE BOTH
FOR EXPERIMENTAL PROCEDURES
AND CAGE CHANGING
OPERATIONS.

Ideal for small rodent cage changing
Single sided
Partial re-circulation and 40% exhausted
Easy-access HEPA filters

- EASY TO USE
 - Microprocessor control
- ERGONOMICS AND VISIBILITY
 - Good accessibility
 - Adjustable height
 - Good visibility thanks to external lights
 - Clear viewing area reduces eyestrain
 - Slanted front screen
 - Single fan (Quiet Running)
- SAFETY
 - Alarm system
 - Protection for operator, animals and working environment complying with the requirements of the international standards for class II biosafety cabinets



• A mobile base is available as an optional item: it allows to easily transport the unit and features an electric auto lift system which adjusts the height of the work surface, thus allowing the ergonomic positioning of the operator while working. The unit features an electric connection of the optional mobile base.

AUTO LIFT:

• The electric auto lift allows ergonomic positioning for the user during the operating phases and allows to reduce the minimum height so that the unit is easy to transport through normal doorways; the lift system can be controlled easily by two buttons. The height of the cabinet on the base is adjustable from 1,990 mm to 2,350 mm.



SPECIFICATIONS AND DIMENSIONS

- **Code N.:** 9CACGBS48
- **Electrical supply:** 230 V/50 Hz - 115 V/60 Hz
- **External dimensions:** 1330 x 865 x 1500 mm (w x d x h)
- **Dimensions on mobile base:** 1485 x 895 x 1990 (2355 max) mm (w x d x h) + four adjustable feet (50 mm)
- **Dimensions on self-standing support:** 1330 x 865 x 2290 (2360 max) mm (w x d x h) + four adjustable feet (50 mm)
- **Chamber dimensions:** 1160 x 565 x 590 mm (w x d x h)
- **Access opening height:** 250/290 mm
- **Weight:** 260 Kg
- **HEPA filter efficiency H-14 EN 1822 (MPPS):** 99,995%
- **Recirculation/Exhaust:** 60%/40%
- **Exhaust air volume:** 650 m³/h
- **Power:** 5 A
- **Power consumption:** 1,1 KVA
- **Noise level:** 55 dB(A)
- **Air velocity - downflow:** ≥ 0,35 m/s
- **Air curtain velocity:** ≥ 0,5 m/s (Cage Changing Configuration) ≥ 0,6 m/s (BSC II Configuration)

MOBILE BASE

- **Code N.:** 9CACGBS48LF
- **Electrical supply:** 230 V/50 Hz - 115 V/60 Hz
- **Height:** 490 mm
- **Weight:** 110 Kg

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BSC II configuration



Cage changing

BS48
BIOSAFETY CHANGING STATION

**TWO CABINETS
IN ONE!**



CAT079/ING - 12/04 - REV.04

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.



ALARMS:

- 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.
- Should the protection panel be removed during the UV sterilization phase, the safety system automatically switches the UV-C lamp off and closes the motorized panel to protect the operator from ultraviolet radiations.
- During the H₂O₂ sterilization cycle, if the front panel is removed, an alarm sounds while an on-screen signal shows the chemical hazard.
- The pre-alarms give a signal 500 hours before the maintenance interventions on filters and UV-C lamp have to be carried out.

H₂O₂ STERILIZATION

- BS48 can be decontaminated with H₂O₂ sterilization cycles: thanks to the on-board software, the operator can interlink the cabinet and a hydrogen peroxide generator to start the sterilization cycle only when the front panel of the cabinet is completely and safely closed and only after a password has been input by the operator.
(Protocols are supplied with the operating instructions and full training will be given).

BIOHAZARD CONFIGURATION:

- 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 microbiological activities in Class II Biohazard Configuration.
- Possible configurations: the machine can be positioned either on a laboratory bench or on a self-standing support (adjustable to different heights) or on a mobile base featuring height adjustability of the working area from the floor.
- By simply replacing the removable frames of the working area, the cabinet automatically configures to Class II BSC version.
- In Biohazard configuration the Cabinet must be positioned on a benchtop or on an optional self-standing base.

- The cabinet is defined "clever/smart", since once the Class II configuration is activated with a password from the operator, the cabinet is automatically positioned in operative conditions of vertical laminar flow and frontal barrier that comply with the parameters of EN 12469 norms.
- The four drilled stainless steel frames for BSC II configuration feature small dimensions and they are easily removable and autoclavable. The interior of the working area is completely built totally of stainless steel.
- When you change configuration, the height of the access opening is 250mm, complying with EN 12469 norms.



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 cabinet alarms comply with EN 12469 norms.

GRAPHIC DISPLAY:

- 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.
- The machine is fitted with a microprocessor control system which

* Side lights to give full visibility to the user.

STANDARD UV-C LIGHT:

- Integrated in the back of the unit; the UV motorized system opens the door positioned on the rear wall of the working space of the UV-C lamp; during normal functioning it does not create turbulences in the laminar flow. The total-disappearance lamp folds away into the rear wall. The duration of the sterilization cycle may be programmed via the control panel.

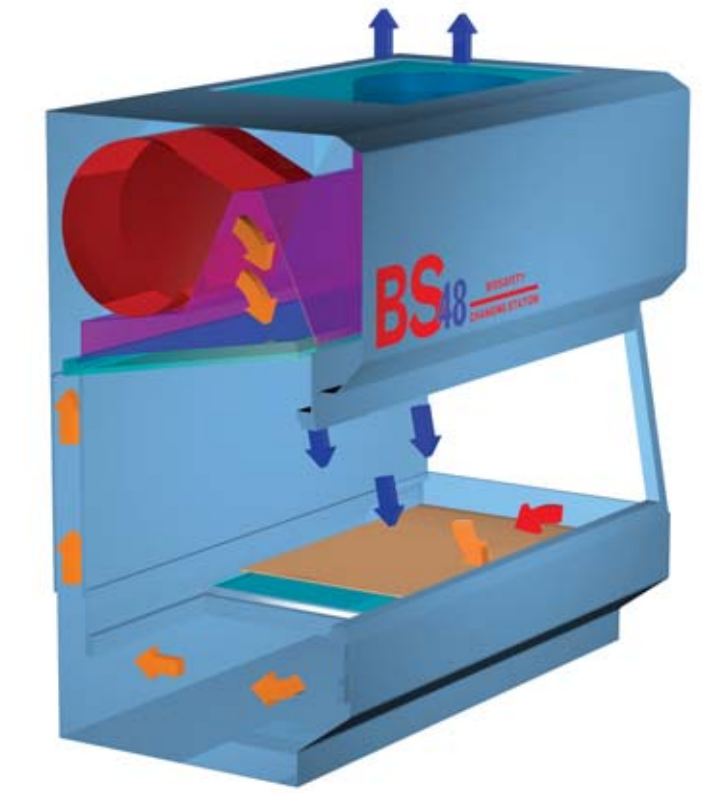


* Electrical power socket available in several different standards.



- When in cage changing configuration, the BS48 thanks to its small overall dimensions allows space saving and a good transportability.
- 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.
- The Exhaust HEPA filter can be accessed from the top of the cabinet, while the access to the main HEPA filter and to the motorblower is made easier by a removable panel. The electronic control card is placed outside the contaminated area since it is located behind a control panel which can be easily lifted thanks to gas springs.
- * BS48 is very easy to clean since all the inner and outer surfaces have rounded corners.
- * The U-shaped pre-filter support prevents dust from bypassing the pre-filters.

- Partial recirculation air flow: BS48 provides a safe cross-contamination free work area for handling animals and protects operator and environment from exposure to allergens by a very strong frontal air barrier.
- BS48 comply with the European norms for class II biohazard cabinets EN 12469.
- Working Area Airborne Particulate Cleanliness Class ISO 5, according to ISO 14644-1.
- 60% of the air volume is re-circulated, 40% is exhausted.



■ Clean HEPA Filtered Air ■ Room Air ■ Mixed Room and HEPA Filtered Air