

- **Designed for animal research Activity in ABSL3 Level**
- **Total Containment**
- **Soft Touch Control Panel**
- **Easy Cleanability**
- **Standard UV-C light**
- **Optional Autoclave Transfer Chamber**



LAMINAR FLOW

1/Biosafety Changing Station

The ISOcage Biosafety Station is purposely designed for animal research Activity in ABSL3 Level in order to improve laboratory safety and process accuracy when contaminated animals with infectious agents are being handled. Thanks to the innovative design and specific technical solutions, as Primary Barriers the "ISOcage Biosafety Station" in conjunction with the "ISOcage" create the "ISOcage System".

The ISOcage System improves containment and protection both personnel and environment from the inhalation of infectious particles, hazardous pathogens, dust and allergens contained at cage level during animal handling procedures. The ISOcage Biosafety Station ensure a high degree of protection during cage changing operations and during experimental procedure thanks to the high Containment Factor controlled by the strong Air Barrier.

2/Total Containment

IBS combines the performance of a Biohazard Class II Type A2 Cabinet and of a work station ideal for handling safely anything that enters or exits from the cabinet working area. In fact, to properly sterilize (disinfect) the external surface of cages that house infected animals by totally immersing the cages in the sterilizing solution before putting them back on the ISOcage rack, a "Dunk Tank" is connected on the right side of the cabinet. The tank is equipped with interlocked doors that allow to maintain the barrier between dirty and clean side thus preventing environment contamination.

3/High Safety

The IBS provides a complete operator, product and environmental protection. The pressurized air pushed into the plenum of the motor-fan passes through the HEPA filters (H14) and then down wards, in a laminar flow (Class ISO 5, according to ISO 14644-1), into the working chamber. From here, through the perforated surface, having mixed with the external air which enters the cabinet from the front opening, it is sucked trough the pre-filters (G4 efficiency), into the intake up channel situated at the rear of the work chamber. From here, 40% of the air volume is exhausted through the exhaust HEPA filter (H14).

This extracted air let air come in from the outside (front barrier) ensuring the protection of the operator/environment from hazardous material manipulated in the work area.

4/Soft Touch Control Panel

The machine is provided with a regulation 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.

5/Easy Cleanability

The IBS is very easy to clean since all the inner and outer surface have rounded corners. The unit is supplied with an easy access pre-filters (the U-shaped pre-filter support prevents any escape of dust) housed below the removable panels of the work top to prolong the lifespan and the efficiency of the HEPA filters. The work surface is composed of 3 easily removable frames built in TRESPA (scratch resistant, autoclavable and sound absorbent panels to reduce noise that will affect rodents activity).

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/Optional Autoclave Transfer Chamber

The transfer drum (as option) is designed to house contaminated Iso cages and tops in order to transfer them to the autoclave. The chamber is connected to the changing station by means of an air-tight double door that prevents environment contamination. The Operator opens the door inside the working area, places the cages inside the transfer drum and closes the door. The transfer drum is then disconnected from the Changing Station, slide onto its trolley and taken to the autoclave. An height adjustable trolley is also available to make the transfer to autoclave easier.



LAMINAR FLOW

IBS Biosafety Changing Station

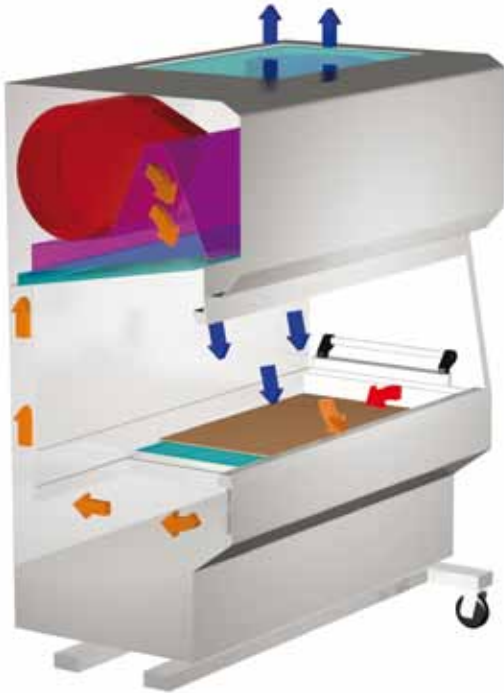
Innovative Concept






Total Containment



High Safety **3**



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

Soft Touch Control Panel **4**



Easy Cleanability **5**



TECHNICAL SHEET

External Dimension (W x D x H):
2200*/2739** x 898 x 2274/2639 mm (Min/Max Height)
86"2/3/107"3/4 x 35"3/8 x 89"1/2/103"7/8 inch (Min/Max Height)
*with dank tank only **with optional autoclave transfer chamber system

Chamber Dimension (W x D x H):
1346 x 535 x average 740 mm • 53" x 21" x average 29"1/8 inch

Access opening height:
250 mm • 97/8 inch

Cabinet Weight:
550 Kg • 1212.54 lb

Control:
Microprocessor driven with control panel

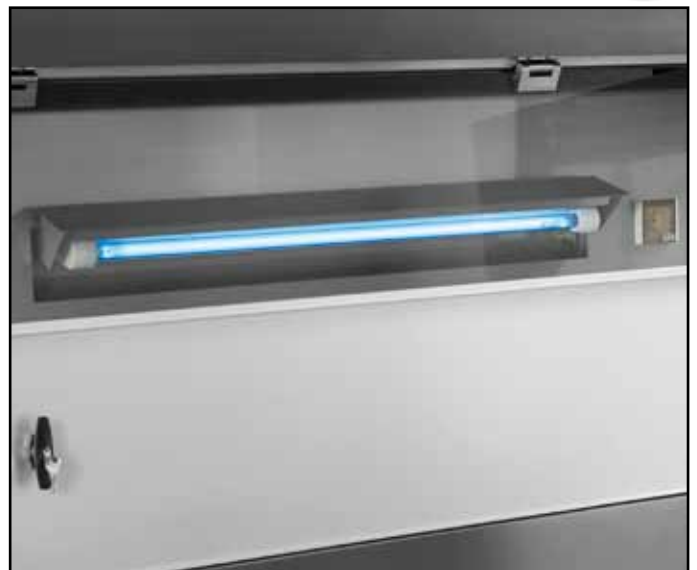
Power Consumption:
1.8 KVA - 2.3 KVA

H14 HEPA filter efficiency (EN1822):
99.995% at the most penetrating particle size

G4 prefilters arrestance:
≤ 90% (average synthetic dust weight arrestance)

Classification of Air Cleanliness:
ISO 5 according to ISO 14644-1

Standard UV-C Light **6**



Optional Autoclave Transfer Chamber **7**



Related Products

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



Isocage:
total isolation granted thanks to HEPA filter protection at cage level, ideal for both bioexclusion and biocontainment.

 **TECNIPLAST**

HEADQUARTERS

ITALY | Tel. +39 0332 809711 • www.tecniplast.it • E-mail: tecnicom@tecniplast.it

SISTER COMPANIES

AUSTRALIA/NEW ZEALAND | Tel. + 61 2 8845 6500 • www.tecniplast.it • E-mail: info@tecniplast.com.au

FRANCE | Tél. 04 72 52 94 41 • www.tecniplast.fr • E-mail: info@tecniplast.fr

GERMANY | Tel. 08805 921320 • www.tecniplast.de • E-mail: info@tecniplast.de

UNITED KINGDOM | Tel. 0845 0504556 • www.tecniplast.it • E-mail: info@tecniplastuk.com

JAPAN | Tel. + 03 5770 5375 • www.tecniplast.it • E-mail: info@tecniplastjapan.co.jp

USA/CANADA | Toll Free: 877.669.2243 • www.tecniplastusa.com • E-mail: info@tecniplastusa.com

To find your local distributor, please visit www.tecniplast.it



ISO-9001 - Cert. n° 0875



ISO-14001 - Cert. n° 02564/0



Product sizes may undergo modifications. Please contact your local dealer for more information.
IBS is a Tecniplast trademark.