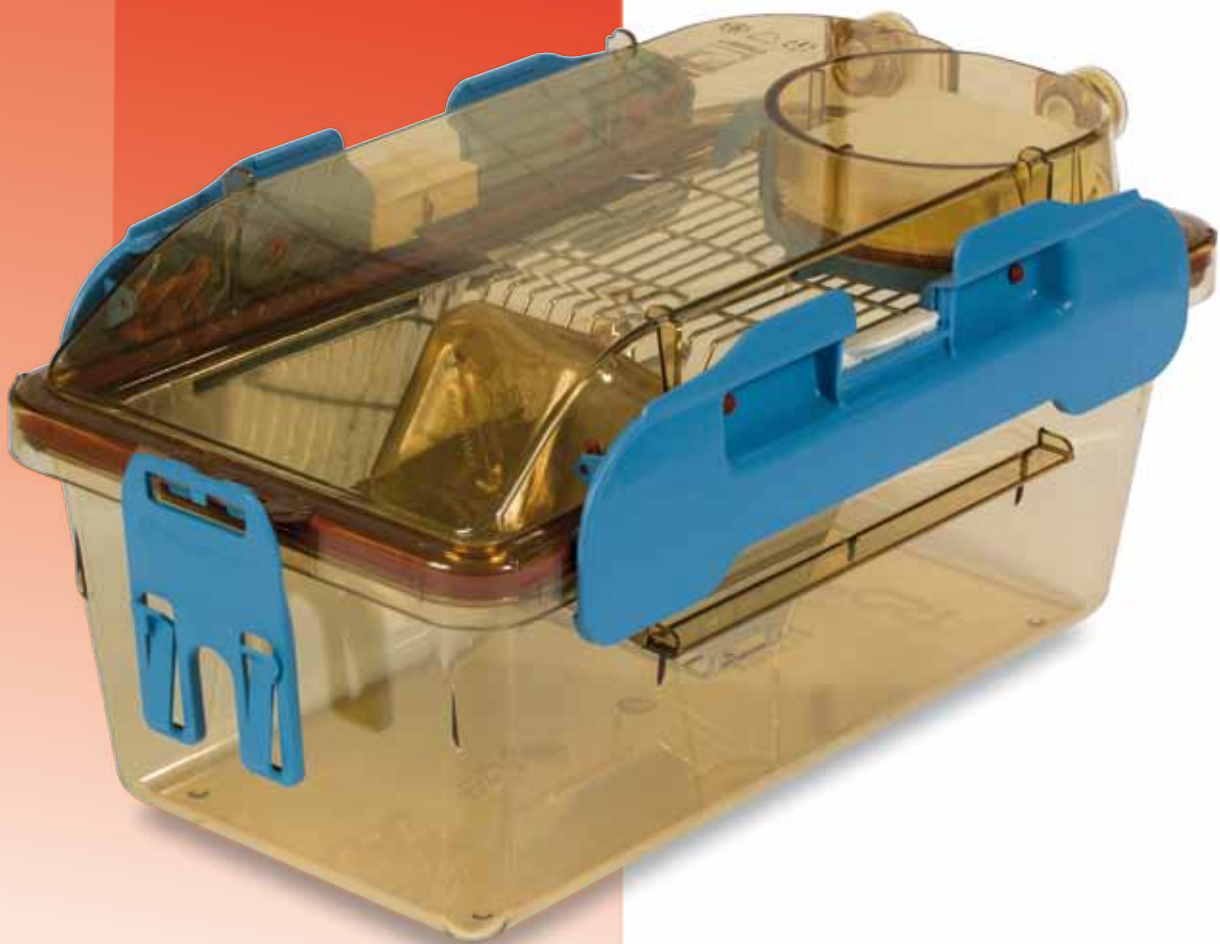


- **Isolator at cage level:
multiple studies on the same rack**
- **Combines the protection of an Isolator
with the ergonomics of an IVC:
higher density and animal safety**
- **HEPA filtration at cage level
to maximize animal protection**
- **Airtight cages with high positive pressure
for ideal bioexclusion**
- **Designed for gnotobiotics, germ-free
and immunocompromised animals**



HOUSING



Introduction

ISOcage P system has been designed in order to achieve the safety and protection of an isolator coupled with the advantages of an IVC, in terms of ergonomics, flexibility and density.

ISOcage P is an isolator at cage level that allows the carrying out of multiple studies on the same rack, providing **strong Bioexclusion** for **maximum animal protection**, excluding any possibility of **cage-to-cage contamination**.

It is especially designed for **gnotobiotics**, **germ-free** and **immunocompromised animals**.

1/Ideal Bioexclusion

- Twin clamps and double gasket self-closing nozzles: ISOcage P is a **real airtight, hermetic cage**. Once removed from the rack, it remains **pressurized** for a long time: **safety** and **protection** for the animals.
- Pressure driven microprocessor based ventilation control: **constant high positive pressure** to provide **safe intra-cage environment**.

2/Animal Safety

- Two blowers working simultaneously: **redundancy** in the unfortunate case of a blower failure.
- Battery back-up system can provide adequate ventilation for more than **24 hours in case of power failure**.
- Possibility to export data via USB, error recording, on-line help menu, UPS-saver mode, connection to BMS: **safety** and **easy data monitoring**.

3/Density and Ergonomics

- Being an isolator at cage level, ISOcage P allows the carrying out of **different studies on the same rack**, achieving an **IVC-like density**.
- Large touch screen with **user-friendly interface**: **easy** to use and **check parameters** or eventual **alarms**.
- Automatic Visual Docking Indicator and great visibility: operator can immediately see if the cage is properly in place for a **safer and easier daily check**.

4/Animal Welfare

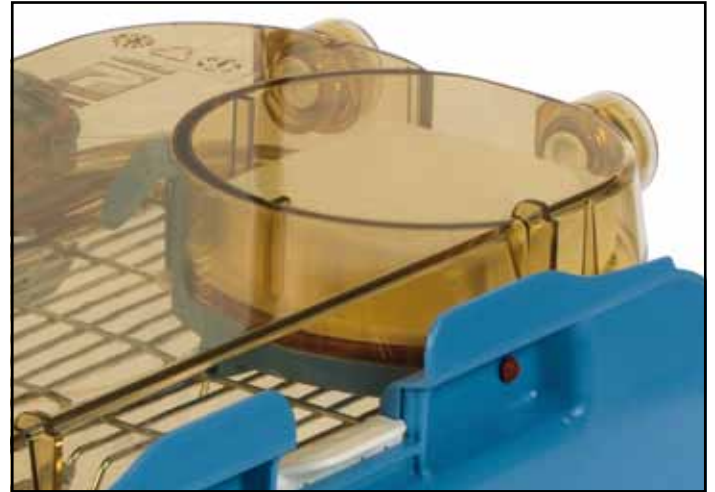
- Air valves placed on the top: **no air drafts** to minimize anxiety- and stress-induced behaviours. **Protection** and **welfare** for **gnotobiotics**, **germ-free** or **immunocompromised animals**.
- The air handling unit provides ventilation **without transmitting vibrations** to the rack, ensuring **standardization** of the experiment.

5/Low Running Costs

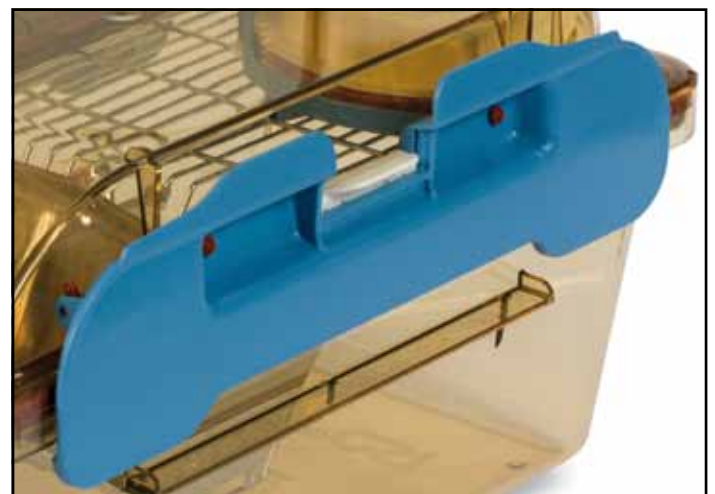
- New low consumption ECM DC-Blowers together with protection-related lower personnel costs reduce the overall system's running costs.

Ideal Bioexclusion

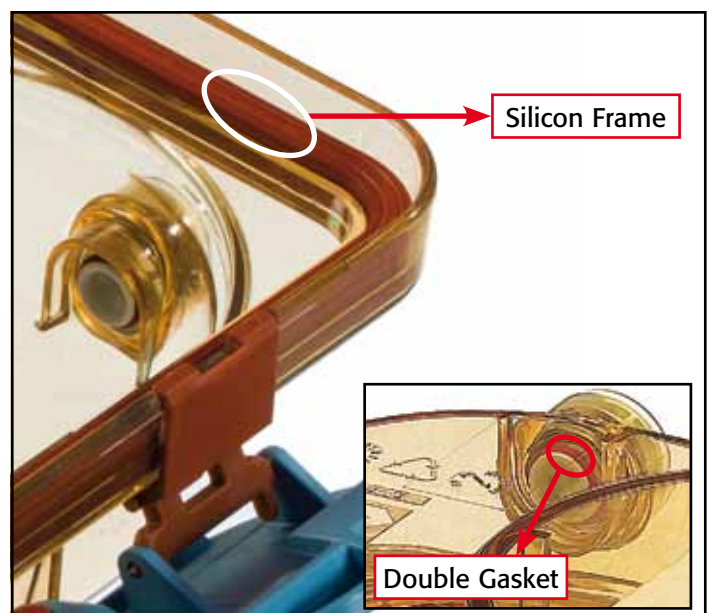
1



Cage Level HEPA filter



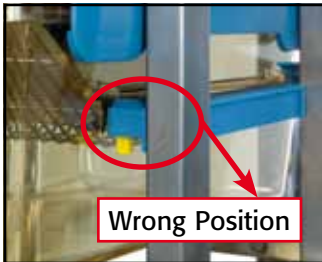
Special closure clamps



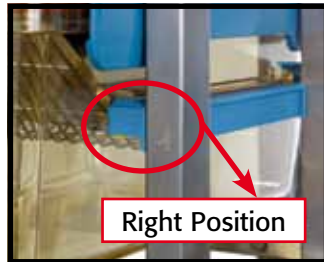
Hermetic cage



Multiple isolators in an IVC rack footprint



Wrong Position



Right Position

Automatic visual docking indicator



Large touch screen



Possibility to export data

TECHNICAL SHEET

Overall cage dimensions (L x W x H):

ISOcage: 384 x 216 x 190 mm / 15,12 x 8,52 x 7,47 in
 ISOorat: 384 x 216 x 242 mm / 15,12 x 8,52 x 9,53 in

Floor area:

ISOcage: 504 cm² / 78.12 sq in
 ISOorat: 468 cm² / 72.54 sq in

Feeder capacity:

600 ml

Bottle capacity:

400 ml

Rack dimensions:

Rack	Configuration	Overall Dimension (rack + AHU) (L x W x H)
ISO30P	30 cages (6w x 5h) Single sided	1838 x 586 x 1958 mm 72.35 x 23.23 x 77.07 in
ISO36P	36 cages (6w x 6h) Single sided	1838 x 586 x 1958 mm 72.35 x 23.23 x 77.07 in
ISO60P	60 cages (6w x 5h) Double sided	1838 x 896 x 1958 mm 72.35 x 35.45 x 77.07 in
ISO72P	72 cages (6w x 6h) Double sided	1838 x 896 x 1958 mm 72.35 x 35.45 x 77.07 in

Air Handling Unit

Construction:

Stainless steels

Control:

Microprocessor controlled - pressure driven, positive pressure mode, with touch screen panel

Power Consumption:

≤ 200W

Heat Loss:

≤ 40W

Noise:

≤ 50dB

Communications:

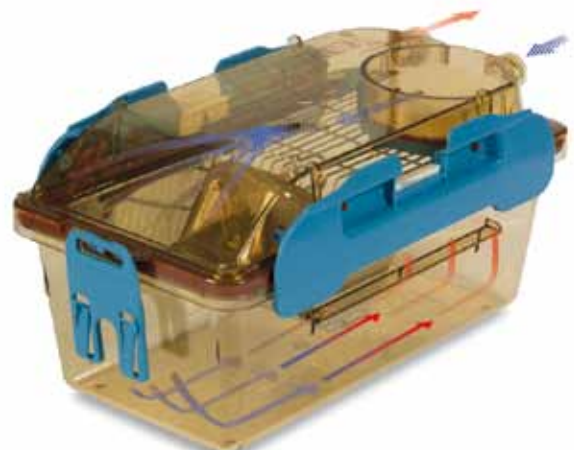
Serial Data transfer (protected by password) - Dry contact for integration to the BMS

HEPA Filters:

99.995% at the most penetrating particle size - H14 HEPA filters. Each AHU is leak & HEPA filter installation tested (D.O.P.)

G4 Prefilters Arrestance:

≥ 90% (average synthetic dust weight arrestance)



Double HEPA filtered air, supplied from the top

Options

- Wire bar lid for water pouches.
- IsoRat cage base.

Accessories

- ISO decontamination trolley.

Related Products

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



ISOcage Biosafety Station Class II Laminar Flow that guarantees protection to operator, environment and content during ISOcage changing procedures.



TECH48 TÜV certified Class II Laminar Flow Cabinet.



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

ENVIRONMENTAL SUSTAINABILITY: MINIMIZE IMPACT MAXIMIZING VALUE

What Tecniplast did to become leader in sustainability:

Company:

- Quality Management System Certification according to ISO 9001 and Environmental Management System Certification according to ISO 14001.
- Certified Environmental Report according to Eni Foundation Enrico Mattei Guidelines.

Products:

- Life Cycle Assessment (LCA) according to ISO 14040 and ISO 14044.
- Carbon Footprint according to PAS 2050.
- Environmental Data Sheet according to ISO 14025.
- Contribution to credits under the LEED rating system.



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