ISO CAGE P

THE BIOEXCLUSION SYSTEM

- **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

TECNIPLAST

innovation through passion℠

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.

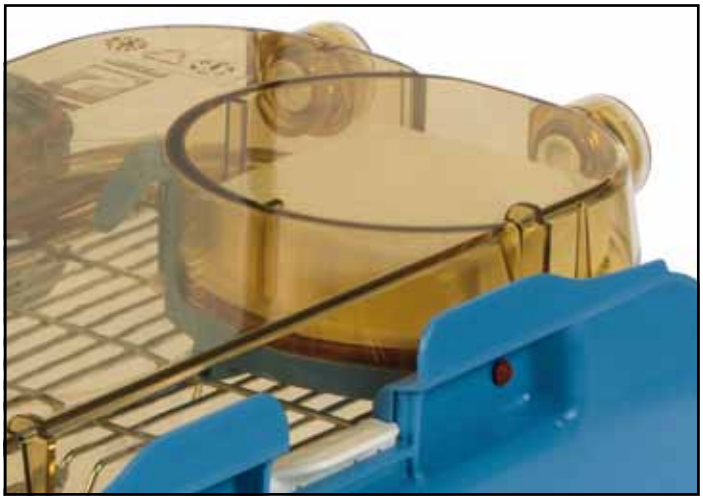
5/Low Running Costs

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

HOUSING

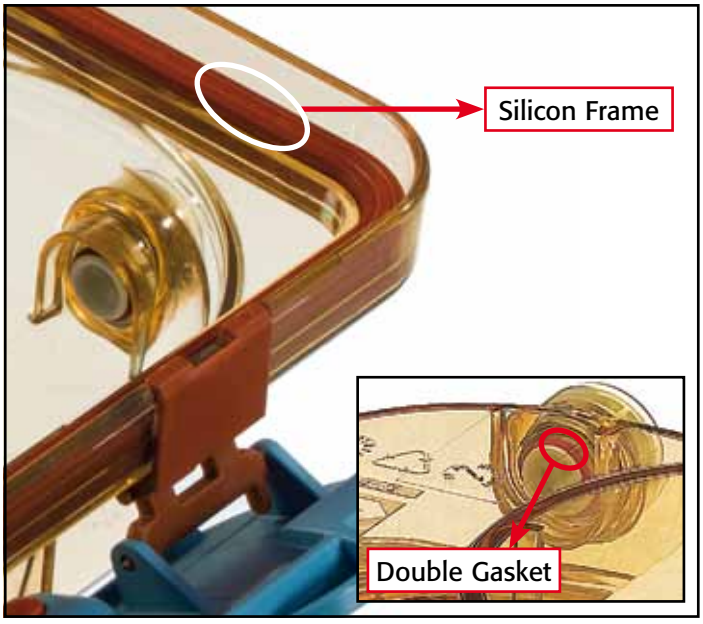
ISOcage P: isolator at cage level

Ideal Bioexclusion 1



Cage Level HEPA filter

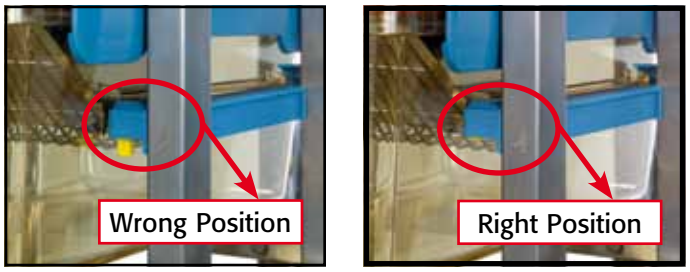
Special closure clamps



Hermetic cage

Density and Ergonomics 3

Multiple isolators in an IVC rack footprint



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
ISOrat: 384 x 216 x 242 mm / 15.12 x 8.52 x 9.53 in

Floor area:
ISOcage: 504 cm^2 / 78.12 sq in
ISOrat: 468 cm^2 / 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)

Animal Welfare 4

Double HEPA filtered air, supplied from the top

Options

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

Accessories

- ISO decontamination trolley.

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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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.