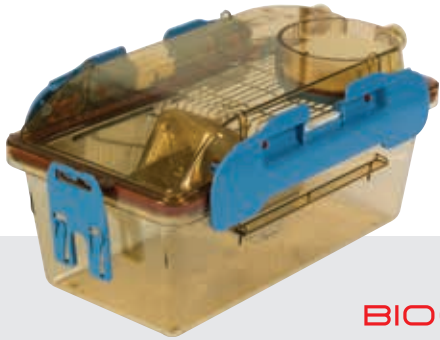


IVCs FOR SPECIFIC APPLICATIONS



BIOEXCLUSION



BIOCONTAINMENT

WHETHER YOU WORK IN A HIGH RISK BIOSAFETY ENVIRONMENT OR WITH GNOTOBIOTICS, GERM-FREE AND IMMUNOCOMPROMISED ANIMALS, TECNIPLAST CAN PROVIDE SPECIAL IVCs DESIGNED TO SOLVE YOUR SPECIFIC APPLICATION NEEDS.

SPECIFIC APPLICATIONS

ISOCAGE P

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.



Rack configuration

| | |
|--------|----------------------------------|
| ISO30P | 30 cages (6w x 5h), single sided |
| ISO36P | 36 cages (6w x 6h), single sided |
| ISO60P | 60 cages (6w x 5h), double sided |
| ISO72P | 72 cages (6w x 6h), double sided |

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

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
- Automatic Visual Docking Indicator and great visibility: operator can immediately see if the cage is properly in place
- Possibility to export data via USB, error recording, on-line help menu, UPS-saver mode, connection to BMS: safety and easy data monitoring



WRONG POSITION



RIGHT POSITION

DENSITY AND ERGONOMICS

- 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



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

LOW RUNNING COSTS

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

AUTOCLAVE DECONTAMINATION RACK

ISO decontamination rack allows the complete closed and clean cages, filled with bedding, food, and water to be placed in the autoclave. The open valve allows the steam to enter and decontaminate the whole cage. No more worries about contaminants.

ERGONOMICS AND FLEXIBILITY

- ISO decontamination rack is modular: possibility to stack multiple racks to fit in most autoclave sizes
- The easy locking system and the light weight of the rack make it easy to be used by just one person



ISO MINI P

ISO Mini P is a compact, mobile unit designed to ensure an ideal bioexclusion. Thanks to the battery backup system it can also be used to move the animal groups between units, maintaining the same ventilating conditions and safety of an ISOcage P standard rack.



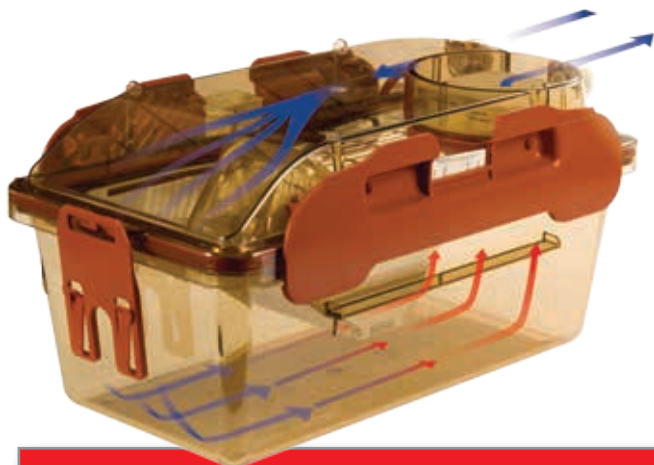
ISO P integrated solution for germ-free, gnotobiotics and immunocompromised animals

TAKE A LOOK AT
TECNIPLAST
LAMINAR FLOW
BROCHURE
TO FIND OUT MORE

■ IBS GERM-FREE

ISOCAGE N

ISOcage N system has been designed to achieve the safety and protection of an isolator coupled with the advantages of an IVC, in terms of ergonomics, flexibility and density. ISOcage N is an isolator at cage level that allows the carrying out of multiple studies on the same rack, providing strong Biocontainment for maximum personnel protection.



Rack configuration

| | |
|--------|----------------------------------|
| ISO30N | 30 cages (6w x 5h), single sided |
| ISO36N | 36 cages (6w x 6h), single sided |
| ISO60N | 60 cages (6w x 5h), double sided |
| ISO72N | 72 cages (6w x 6h), double sided |

IDEAL BIOCONTAINMENT

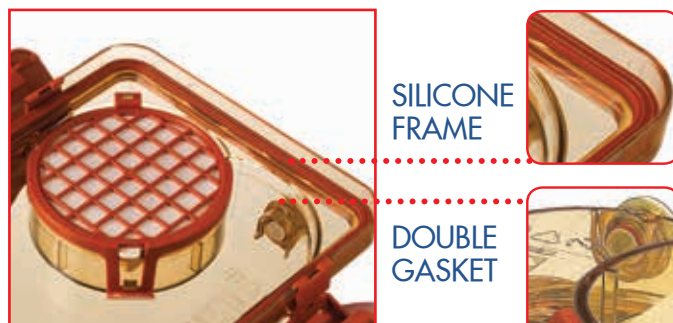
- Exhaust air is HEPA filtered at cage level: complete confinement of biohazards at cage level, keeping the air circuits sterile
- Twin clamps and double gasketed self-closing nozzles: ISOcage N is a real airtight, hermetic cage. Once removed from the rack, it remains pressurized for a long time: safety and protection for operators
- Pressure driven microprocessor based ventilation control: constant high negative pressure to provide safe environment



SPECIAL CLOSURE CLAMPS

OPERATORS' SAFETY

- High resistant Polyphenylsulfone cage to ensure the integrity of the cage even if dropped, hit or mechanically stressed
- 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



CAGE LEVEL HEPA FILTER FOR EXHAUST AIR

DENSITY AND ERGONOMICS

- Being an isolator at cage level, ISOcage N 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

ANIMAL WELFARE

- The Air Handling Unit provides ventilation without transmitting vibrations to the rack, ensuring standardization of the experiment
- Air valves placed in the top in order to avoid undesired variables that may affect research outcomes, such as air drafts at animal level

LOW RUNNING COSTS

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

AUTOCLAVE DECONTAMINATION RACK

ISO decontamination rack makes for easier Standard Operating Procedures and related workflows, allowing to autoclave the complete closed cage, always providing maximum protection.

ERGONOMICS AND FLEXIBILITY

- ISO decontamination rack is modular: possibility to stack multiple racks to fit in most autoclave sizes
- The easy locking system and the light weight of the rack make it easy to be used by just one person



ISO MINI N

SAFETY FOR OPERATORS AND ANIMALS

- Designed to move cages across different areas maintaining the same pressure-driven ventilation as in the ISOcage N rack
- Can be used as an emergency/temporary rack: no more logistic and procedural problems

UNINTERRUPTIBLE POWER SYSTEM (UPS)

- Safety for animals, people and research



ISOcage
+
ISOcage
Biosafety Station
=
Tecniplast
ISOcage System

TAKE A LOOK AT TECNIPLAST LAMINAR FLOW BROCHURE TO DISCOVER OUR IBS!

ISO XL

The BSL3 & BSL4 containment system for ferrets.

MAXIMUM SAFETY

- INLET AND OUTLET ULPA FILTERS - The cage achieves biocontainment at cage level, minimising costs for building ABSL3/4 laboratories. The negative pressure works so that the air flows into the cage through the INLET ULPA filter, removing odours and dander from the cage floor and the excreta pan, while protecting technicians from exposure to allergens

PRACTICALITY OF USE

- EXTERNAL WATER BOTTLE AND FEEDER - Bottles can be changed and food refilled without disturbing or stressing the animals. Safety is guaranteed also by the presence of a 0.2 micron PALL filter between the drinking valve and the bottle
- TRANSFER BOX - To move the animal under a bio-containment cabinet without touching it
- OPENING FOR BAG IN-BAG OUT PROCEDURE - The waste tray may be changed during the experiment without opening the main door of the cage
- The system is fully autoclavable

