Ezi-Dock Systems Isolator Range

New from Ezi-Dock Systems in 2023 is a range of flexible and portable isolators. Just like all Ezi-Dock products, our isolator range has been developed to address common dissatisfactions with existing systems and a provide high-performance alternative.

Range Benefits

- High quality Isolators for a wide range of Life Science applications
- Modular system design for excellent levels of flexibility and speed of supply
- Bench-top / Pop Up systems for occasional use
- Portable systems for use in small labs, hospitals, or in the field

Ezi-Dock Flexible Containment Isolators

Supply of traditional flexible isolators into the Life Science industry is marked by high cost, poor performance and long lead times, but faster drug development has brought a demand for a new and better approach.

Ezi-Dock Flexible Isolators have been developed specifically to meet market demand for high-quality isolators at short notice and lower cost. Our 'design-from-scratch' approach has produced a modular system using unique components which can be combined to produce multiple isolator formats, all based on one, highly-superior format.

Since the construction is modular, parts can be held permanently in stock, drastically reducing both cost and lead times.

Key Features and Specifications

- Modular design is based on stainless steel frame with GFRN connectors, allowing fast and flexible development of isolator systems with no long lead times or custom-manufactured parts.
- Unique Inlet and Exhaust HEPA filter connection ports use Ezi-Dock's Ezi-Flow CSV technologies to perform a safe change of the flexible enclosure reducing overall cost and waste by keeping the expensive H14 HEPA filters in place.
- Draws HEPA filtered air from the environment and returns it via an exhaust HEPA filter and terminal HEPA filter located in the exhaust system.
- Air filtration and regulation between chambers performed by integrated P3 filters mounted within internal film bulkheads.
- Flexible enclosure body and utility sleeves manufactured from a highly durable TFL-1GX polyether-based thermoplastic polyurethane film.
- Ezi-Flow CSV discharge connection ports moulded through the base of the flexible enclosure allowing contained discharging of product down to 0.5µg/m³ in standard format. Lower containment levels can be achieved by applying a secondary barrier around the Ezi-Flow CSV valve.
- Shoulder cuffs mounted into faces requiring operator interaction complete with 3-part glove sleeve.
- Item entry and set up of the flexible isolator system provided by gas-tight zippers.
- Base Plates manufactured from 6mm FDA Grade PVC.
- Continuous Liner Port manufactured from 3mm FDA Grade PP.
- 45m long pleated Continuous Liner manufactured from a 3-layer coextruded polyethylene film.
- Self-regulating isolator exhaust system housed within a stainless steel fan box. Optional items available inclusive of light control, interlock control, chamber integrity testing sequence and nitrogen purging system.
- Inert gas environment for oxygen-sensitive applications.

Ezi-Dock Bench-Top Isolator

The ultimate solution for speed and convenience, the Ezi-Dock Bench-Top Isolator can form into shape in less than 2 minutes from being unpackaged from its outer packaging, and is ideal for single or occasional use applications where space is restricted. This highly-convenient unit offers the durability and performance you expect from Ezi-Dock Systems.

Key Features and Specifications

- Shoulder cuffs mounted into the front face of the flexible enclosure complete with 3-part glove sleeve.
- Flexible enclosure body and utility sleeves manufactured from a TFL-1GX polyether-based thermoplastic polyurethane film.
- Base matting manufactured from an electrostatic discharge, smooth-finish synthetic rubber.
- Set up of the flexible isolator system provided by TIZIP gas-tight Masterseal 10 zipper.
- Support frame formed from white glass fibre rods with retention attachments.
- P3 air filter integrated into the rear face to allow the isolator to erect itself when collapsed, and to allow pressure equalization due to operator movement inside the 2 glove sleeves.

Ezi-Dock Portable Aseptic Isolator (PAI)

The Ezi-Dock Portable Aseptic Isolator is a capable and cost-effective mobile isolator offering compact size and simplicity of use. The PAI offers multi-mode operation, so each PAI can be instantly switched from a Type 1 (positive pressure), to a Type 2 (negative pressure) or to a Class 3 Microbiological Safety Cabinet (MSC) and is compliant with all associated standards including ISO14644-7 and BSEN12469.

It is suitable for many applications such as clinical trials, chemotherapy and radio-isotope treatments that require a safe and clean micro-environment, close to the patient, and is available ex-stock for speedy supply. Since the PAI unit is NATO codified, it is also supplied in a permanent MSC Class 3 version for category 4 pathogenic work (e.g. Ebola sampling/handling) as used by military customers. This MoD variant can have a built-in formalin vaporiser and neutraliser system which is used for decontamination.

Key Features and Specifications

- Draws HEPA filtered air from the environment and returns it via a dual-in-line exhaust HEPA filter.
- Shoulder cuffs moulded into the front isolator screen complete with 3- part glove sleeve.
- Provides 0.36 m/s airflow across the working surface, 100mm away from the filter surface.
- Two fans supply and exhaust the air in a 100% ‘Push-Pull’ configuration.
- Air Change Rate (ACR) and Internal Pressure are automatically controlled.
- Isolator can be run at a positive or negative pressure to provide product or operator protection.
- A 12L transfer hatch is also purged with HEPA filtered air.
- Built-in chamber integrity test performed using simple inlet and exhaust air magnetic covers.
- Variable oxygen and nitrogen-controlled environment.
- Can run on its own 24VDC battery system or from the mains with its 100V - 240V input.
- Can be supplied as a bench model or with its own electrically operated adjustable height trolley powered from the PAI’s integral 24VDC battery system.
- Inbuilt Filter Cleanliness monitoring with changeout indication.

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