

Over *30* years experience



# ISO PRO

## CONTAINMENT ISOLATOR

- ▶ End user protection (OEL < 1.0  $\mu\text{g}/\text{m}^3/8\text{h}$ )
- ▶ Manually adjusted negative pressure with HEPA filtration
- ▶ Magnehelic pressure gauges
- ▶ Outside illumination above window
- ▶ Stand with castors for easy mobility
- ▶ Leveling feet for required positioning
- ▶ All stainless steel construction 1.4404 (316L)
- ▶ Laminated safety glass
- ▶ Ergonomically designed oval ports
- ▶ Integrated material transfer chamber
- ▶ Meets GMP requirements



**custom solutions for  
your application needs**

## Function

The isolator operates in a constant relative negative pressure. Negative pressure is generated by a built in blower positioned after the outlet filter. The blower is frequency controlled and regulates the pressure to -200 Pa with an air exchange rate up to > 15 times/h. The air exchange rate can be reduced by adjusting the manual valve at the air inlet side. The frequency controlled blower will automatically increase its speed in case of a defective glove or leak. This function allows optimal operator protection under all circumstances and provides the required air speed across a glove port opening during a breach.

## Design Specification (W x D x H)

### Isolator inside dimensions:

1194 mm (W) x 594 mm (D) x 925 mm (H)

### Transfer chamber inside dimensions:

414 mm (W) x 351 mm (D) x 300 mm (H)

### Door opening:

300 mm x 300 mm

### Isolator outside dimensions including transfer chamber and stand:

2150 mm (W) x 705 mm (D) x 2560 mm (H)

## Isolator

### Body:

Stainless steel 1.4404 (316L) with radius and ball corners for optimal cleaning

### Window Frame:

Stainless steel 1.4301 (304) screw on design

### Window:

Laminated safety glass on EPDM gasket with FDA certificate

### Window Gasket:

EPDM with FDA certificate

### Glove-ports:

230 mm x 320 mm Oval HDPE glove port with FDA certificate

## Isolator

### Gloves:

EPDM with FDA certificate

### Inlet Filter:

HEPA H13 screw type filter with manual shut off valve for seamless operation during filter change

### Outlet Filter:

HEPA H13 Push-Push double filter system

### Exhaust:

The air outlet is located on top of the isolator cover housing with an outside connection to an existing HVAC system

### Shelving:

Two level storage shelves made of stainless steel 1.4404 (316L)

### Drain:

Stainless steel 1.4404 (316L) positioned in the isolator floor

## Pressure Measuring

- Pressure indication by Magnehelic gauge
- Pressure regulation by analogue pressure sensor
- Pressure line protection by a 0.2 µm (8 µ in) filter

## Stand (pedestal)

Stainless steel 1.4301 (304) with four wheels for the transport and leveling feet for the positioning

## Surface specification

### Inside surface:

Ra < 0.8 µm (32 µ in) welding areas passivated and polished Ra < 1.0 µm (39 µ in)

### Outside surface:

Ra < 1.2 µm (47 µ in)

Isolator body and transfer chamber with radius ball corners

## Internal Components

### Electrical Feedthrough:

Cable feedthrough with cable (1 m inside) on/off switch

### Feedthrough:

Three stainless steel 1.4404 (316L) flanges TC ISO DN 40 in the back wall with blind covers (outside) and Teflon plugs

### Illumination:

>500 Lux intensity (working area)

### Cleaning:

Customer specific

## Electrical Data

### Voltage:

115 V / 15 A

### Frequency:

60 Hz

### Enclosure Protection Class:

IP40

## Transfer Chamber

### Body:

Stainless steel 1.4404 (316) with radius and ball corners for optimal cleaning

### Doors:

Transparent acrylic with stainless steel hinges and manual closing mechanism

### Inlet filter:

HEPA H13 filter

## Options

- Wash In Place (WIP Equipment)
- Clean in Place (CIP Equipment)
- Hinged Window
- Alpha/Beta Systems (RTP)
- Bag-in Bag-out Port
- IQ / OQ Available



Hinged window made from stainless steel with quick closing mechanism handle and snap in mechanism



H13 HEPA filter air inlet and outlet



Alpha / Beta ports in various versions and dimensions



Blower with speed control and HEPA filter for the transfer chamber



Beta containers made of PE in various versions and dimensions



Oval glove ports made of HDPE with tensioning ring and O rings



Washing in place equipment, includes spray gun, Teflon tube, tri-clamp, drain flange, ball valves



Manual adjustment of the constant negative differential pressure





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