

DISPENSING AND WEIGHING ISOLATOR



The isolator was designed to permit the dispensing and weighing activities of micronized highly potent substances (progesterone OEL 0,01 mg/m³).

This compact isolator is mainly constitute of two chambers:

- Pre chamber: to inlet material
- Main chamber: where to perform dispensing activities

Both the chambers are equipped with an inlet single stage filtration placed inside the box, an outlet first stage filtration also inside and the second one outside. The isolator is also equipped with a special CIP system consisting in spray balls, spray guns and a solvent mixing system. Moreover a Drying In Place has been supplied on board with independent

heaters, humidity and temperature probe inside each chamber.

One 380mm diameter continuous liner port has been placed on the side of each chamber to easy exit large drum where the product is stored while only in the main chamber there is an integrated Hycoflex® system to take out the dispensed product.

A paperless recorder Eurotherm was also integrated to record all the critical process data like temperature, humidity, chamber pressure.

Other key features:

- Fully PLC controlled
- Software GAMP 5 compliant
- Friendly operator interface
- Sliding Tray
- Pass through door for communication with adjoining chamber
- 190 mm glove flanges with gloves
- 270 mm glove flanges with gloves
- Continuous film port Diam. 380 mm
- rH+T sensor for temperature and humidity internal monitoring
- Magnahelic Manometers for the internal pressure control
- Inverter for ventilation fan speed control
- Automatic valves for air flow interception
- Jumo Manometers to monitor inlet and outlet filters obstruction



DISPENSING AND WEIGHING ISOLATOR

Technical data

Stainless steel sheet	Support structure: AISI 304 Chambers: AISI 316L
Sheet finish	Support structure: Scotch-Brite Chambers: Mirror Brite
Isolators glass	Tempered with AISI 316L stainless steel frames - ≠ 12 mm (EN12600)
Weight	1100 Kg
Air classification	class ISO 5 (B)
Boxes' air-tightness in compliance with ISO 10648-2 class 2 - Leak rate per hour	< 2,5x10 ⁻³
Exhaust air range (prechamber)	50 m ³ /h
Exhaust air range (main chamber)	70 m ³ /h
Exhaust air range (discharge chamber)	50 m ³ /h
Inlet air filter type	HEPA H14
Outlet air filters type	HEPA H14
Working Internall negative pressure	-30 ÷ -50 Pa
Overall dimensions	2576 x 1751 x 2416 mm

Utilities Requirements

Power supply (general)	230V (1Ph+N+PE) 50/60Hz 16A TN-S
International Protection Rating	IP 54
Minimum supply pressure (compressed air/nitrogen)	6 bar
WFI	12 l/min

