

DISPENSING ISOLATOR (ATEX COMPLIANT CHAMBER)



The isolator is designed to carry out weighing and powder transfer procedures (API) in complete safety. The isolator consists of a chamber equipped with connections for scales and cable runs, with a front wall in glass which can be opened completely.

The chamber is also equipped with two spray balls and two spray guns for perfect cleaning.

The transfer and discharge of materials takes place by means of a DPTE located on the right side of the chamber and a barrier sack with interlocking door located on the operating surface.

Given the large quantity of rejects, the isolator was equipped with an automatic lift trolley which, placed under the barrier sack, allows

accumulation of the rejects and therefore easy transport.

The internal work area is classified as ATEX ZONE 22 Ex II3D_3, therefore a series of upgrades were adopted in the choice of improved solutions to ensure the handling of the highly exploding substances treated there. The filtration system is comprised of a single inlet stage inside the enclosure and a double output stage (one inside and one outside the enclosure).

The ventilation system has the following modes based on the type of supply: Laboratory air, Process air and Nitrogen.

Other key features:

- Fully PLC controlled
- Software GAMP 5 compliant
- Friendly operator interface

- Sliding Tray
- Oval glove flanges in PVC equipped with gloves in Hypalon
- DPTE 270-S ALPHA
- Turbulent air flow with nitrogen/air/laboratory air
- Dual output air filtration system
- Exhaust system with Ø186mm flange
- Magnehelic Pressure Gauge to monitor negative internal pressure
- Inverter for air fan speed control
- Automatic valves (ON/OFF) for air ventilation
- Oxygen sensor
- Scale with remote panel
- Photohelic Pressure Gauges to monitor clogging conditions of the air filter



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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 - \neq 12 mm (EN12600)
Weight	2500 Kg
Air classification	class ISO 5 (B)
Boxes' air-tightness in compliance with ISO 10648-2 class 2 - Leak rate per hour	$< 2,5 \times 10^{-3}$
Inlet air filter type	HEPA H14
Outlet air filters type	HEPA H14
Working Internall negative pressure	-50 ÷ -100 Pa
Overall dimensions	1947 x 1038 x 2792 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	18 l/min

