

ISOLATOR FOR SAFE HAPI TRANSFER AND DISPENSING



TRANSFER ISOLATOR

The isolator consists of a main chamber and an additional MAL (Material Air Lock) Chamber. The isolator is designed for the secure transfer of HAPI into the appropriate bins:

- The active ingredient is brought into the isolator utilizing a DPTE interface located on the left side of the isolator shell
- The operator weighs the active ingredient, and pours the weighed quantity into a funnel that directs the flow of the ingredient in to a wheeled vessel connected to the isolator shell from the bottom
- A bag-out door is present on the isolator. This bag-out door will be utilized for the expulsion of contaminated bag and cans (primary packaging of active ingredients)

All chambers are equipped with an air inlet filter, two air outlet filters, air inlet and outlet valves and an air extraction fan.

A CIP system is present comprehending spray balls and spray lances, both chambers are equipped with sanitary drain valves.

DISPENSING ISOLATOR

The isolator consists of a left prechamber, a main chamber and

an exit chamber. The products that have to be dispensed are contained in bins.

The closed bins are brought into the isolator system through the prechamber front door and placed on a sliding tray located between the right prechamber and the main chamber.

The bins are then manually moved into the main chamber via a pass-through door. The bin is opened and the products are drawn out from the bin and weighed.

The empty bins are placed on a support structure within the bag-out tube, the maximum capacity of the support structure is 5 stacked bins. These 5 bins will be discharge together in one operation.

The last bin that may contain material will be discharged in a separate operation.

A tri-clamp flange welded to the floor of the main chamber is connected to a Hycoflex® system, placed on the exit chamber that will furnish the exit point for the weighed material.

All chambers are equipped with an air inlet filter, two air outlet filters, air inlet and outlet valves and an air extraction fan.

Moreover, a CIP system is present for internal washing. The prechamber

and the main chamber have sanitary drain valves for chamber drainage, while in the discharge chamber there is a pneumatic ball valve.

Other key features:

- Bottom of chamber sloped to facilitate drainage of wash down fluids
- JUMO manometer for the internal pressure control
- Inverter for ventilation fan speed control
- Automatic valves for air flow interception
- Manual butterfly valve

TRANSFER ISOLATOR

- Polypropylene glove flanges
- Nitrile gloves
- N°1 bag-out tube for bin discharge
- N°1 270-S alpha flang.

DISPENSING ISOLATOR

- Sliding tray
- Bar grills
- Bag-out tube
- Funnel for pouring of material
- 270-S alpha flange
- Polypropylene glove flanges
- Nitrile gloves
- IP65 Illumination units
- Shelf for storage of customer supplied tools



ISOLATOR FOR SAFE HAPI TRANSFER AND DISPENSING

| 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 |
| Weight | TRANSFER ISOLATOR: 850 kg DISPENSING ISOLATOR: 1700 kg |
| Air classification | class ISO 5 (B) |
| Boxes' air-tightness in compliance with ISO 10648-2 class 2 - Leak rate per hour | $< 2,5 \times 10^{-3}$ |
| Minimal negative pressure alarm level | -30 ÷ -50 Pa |
| Inlet air filter type | HEPA H14 |
| Outlet air filters type | HEPA H14 |

TRANSFER ISOLATOR

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|-------------------------------------|-----------------------|
| Working Internall negative pressure | -100 Pa |
| Exhaust air range | 70 m ³ /h |
| Overall dimensions | 2300 x 1220 x 3170 mm |

DISPENSING ISOLATOR

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|---|-----------------------|
| Working Internall negative pressure (prechamber) | -50 Pa |
| Working Internall negative pressure (main chamber) | -100 Pa |
| Working Internall negative pressure (discharge chamber) | -50 Pa |
| 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 |
| Overall dimensions | 2747 x 1020 x 3170 mm |

Utilities Requirements

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|---|--|
| 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 | 20 l/min (DISPENSING) 18 l/min (TRANSFER) |

