



Synthesis Isolators

Chemistry development laboratories are more and more involved in developing molecules which have HP intermediates.

Suitable protection is therefore required also during reactor charging operations and slurry discharge / transfer.

The Synthesis Isolator is generally composed by main working chamber where the reactors and filters are installed. Chamber dimension may vary depending on number and type of installed reactors (from 5dm³ up to 15dm³).

Agitator motors of reactors may be installed outside for best maintenance and cleaning.

RTP or pre-chamber is adopted for material/tool introduction.

RTP / side liner system may be adopted for waste exit.

The viewing panels are mechanically clamped or hinged and openable upwards, by means of pneumatic cylinders.

Circular or oval glove ports with double groove for safety change of gloves during operations.

Chambers are equipped with an on board ventilation system with dedicated fan and HEPA filtered air (inlet/outlet).

The system is equipped with a washing line comprising a liquid supply, a spray gun and a drain line.

OEB5 containment level can be achieved.

TECHNICAL DATA

Dimensions

About 1400x700x1400mm for the main chamber

Filters

HEPA 99,995% MPPS – H14

Materials

Structure: AISI316L

Static gaskets: EPDM or Silicone

Inflatable gaskets: Silicone

Gloves: Neoprene / EPDM / CSM

Lighting

Dedicated LED lamp with about 500lux on working plane

Surface roughness

< 0,50µm – contact parts

< 0,80µm – non contact parts

Containment level

CPT: <1µg/m³ (8hTWA)

Control system

PLC type Siemens S7

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Production and Test Facilities

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