



Isolator Schedio S30C

Images

Product details

Category:	Isolator
Machine:	Powder grinding and dosing system
Machine code:	24-1268
Manufacturer:	Schedio
Year of construction:	2021

Description



Powder grinding and dosing system with double isolator.

The pneumatic conveying and powder dosing system in isolator is designed to interface with a mechanical mill for grinding dry solid powders under aseptic conditions and with an adequate degree of containment. The scope of application of this type of plant is recommended when, starting from products with a particle size down to a few millimetres, one wants to achieve a medium fineness in the order of 300-500 microns, and subsequently dose the product into aluminium bins of different volumes.

Composed of

1. Milling Isolator

Containment isolator with radial edges $r=20\text{mm}$.

Window sealing is ensured by means of inflatable seals. Pharmaceutical design to ensure quick and effective cleaning

Equipped with:

- a. connection for exhaust filter differential pressure measurement, HEPA filtered
- b. connection for particle counter
- c. connection for microbiological counter
- d. connection for mechanical mill feed cone

Liquid drainage through drain fitted with automatic valve.

Internal lighting by means of LED spotlights, externally mounted.

2. Dispensing Isolator

Dispensing isolator with rounded edges $r=20\text{mm}$.

Window sealing is ensured by means of inflatable seals. Pharmaceutical design to ensure quick and effective cleaning

Equipped with:

- a. connection for differential pressure measurement, HEPA filtered
- b. connection for particle counter
- c. connection for microbiological counter

Liquid drainage through drain fitted with automatic valve. Internal lighting by means of LED spotlights, externally mounted.

3. Pneumatic transport

Pneumatic conveying works under vacuum. The product is sucked in by a cone that collects the ground product from the mill. The product is transferred through a flexible connecting pipe, complete with tri-clamp fittings, into a cyclone filter with filter cartridge.

Side channel suction blower made of aluminium alloy for quick and flexible control of the suction pressure. The fan is positioned on the dispensing isolator platform.

The motor is controlled by an inverter located in the main switchboard.

Motor power 1.5 kW., maximum flow rate at glove removal 210 Nm³/h.

technical data cyclone filter fc250

Dimensions (mm) $\varnothing 250$ / h 800

Exhaust valve $\varnothing 4$ "TC

Filter cartridge (mm) $\varnothing 145$ / h 400

Inlet connection $\varnothing 2$ "TC

Exhaust gas outlet $\varnothing 3$ "TC

Gross weight (kg) 20

Material AISI3 16L

4. Dosing system

The dosing system for ground powder allows the product to be filled into aluminium drums supplied by the customer.

The dosing procedure is automatically controlled by the PLC which regulates the opening of the dosing



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rotovalve according to the weight read by the bench scale (capacity 15kg, plate size 280x350mm).

Rotovalve

Type: : Four-lobe with reduced capacity

Material: AISI 316L

Connections: Tri-clamp 4"

Finish: Mirror polished internally, satin-finished externally

Material: AISI 316L

Actuator: Single-acting pneumatic

5. Pneumatic distribution and control system

All piping is made of AISI 316L with Tri-clamp connections. Different connections are used where required.

Service piping (pilot, water drain) made of rilsan.

6. Electrical installation with Siemens 12" touch control panel above the isolator.