



Iskra pio d.o.o.
Industrial equipment manufacturer

DRYING CHAMBER



The main function of the drying chamber is drying hand-washed equipment or drying raw materials. Controller and control system for parameterization, monitoring, triggering and alarm management are in accordance to CFR Part 11.

A drying chamber is a well insulated cabin, with the possibility to achieve high temperature and humidity. The chamber is designed like that nothing inside the chamber will obstruct the airflow. For this reason the chamber works with horizontal flow of absolute clean air, which provides high cleanliness. Trolleys for drying raw material are easy to use, designed with a guided wheel system and have up to 16 trays.

The machine is equipped with safety features for the protection in the case of a failure of any vital part of the machine. The control system is in full compliance with 21 CFR Part11.

Basic characteristics

- designed and executed according to GMP standards
- drying and humidifying mode – air/water mixing ratio 5 - 100 g/kg, 20 - 80 °C
- drying parameters settings:
 - duration of recipe sequence,
 - inlet air temperature per recipe sequence,
 - airflow per recipe sequence,
 - air/water mixing ratio per recipe sequence,
 - process chamber jacket temperature.
- overpressure
- ATEX execution
- easy cleaning
- for different types and sizes of trolleys
- contact surfaces stainless steel AISI 316 L
- other construction parts AISI 304
- rounded edges, splash water protection
- lights inside the chamber
- easily accessible electrical components
- system works in interlock function (only one door can be opened at the time)
- available in different sizes
- implementation according to customer demands
- connection between two different rooms or separated room



SCADA/HMI

- user friendly touch panel – easy to control
- SIEMENS control equipment
- multi-levelled access
- recipe management
- report generation
- monitoring and alarming critical parameters
- history of events
- service, manual and automatic mode
- GAMP 5, 21 CFR part 11 compliant



Details

A drying chamber has two (input and output) double doors. The doors are connected to the so called interlock, and they cannot be accidentally opened. Interlock is controlled by air-conditioning controller. The doors are thermally insulated and can have a window to check the drying chamber. Contact between the doors and the chamber is sealed, when in closed position. Opening and closing is done by a lock, which provides a reliable and good seal for the doors. Interlock operation works by a magnet.

The doors inside is equipped with a handle, which enables opening from interior. The drying chamber is equipped with lights that provide adequate lightning inside the chamber.

- HEPA filtered air
- temperature 20 - 100 °C
- ΔT distribution ± 1 °C - for all points inside the chamber
- different trolleys and sleeves
- guided wheels system



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