

FLUIDIZED BED DRYING PILOT



Non contractual photo

SERVICE : 8 KW, 220 V MONO

DIMENSIONS : 1500 X 600 X 2000 MM

REFERENCE : MP302

- Study of convection drying of food or pharmaceutical product
- Study of the influence of the load of the product to be treated, the temperature of the air inlet, the air flow
- Measurement and regulation of inlet air temperature
- Exhaust air temperature measurement
- Measurement of the temperature of the product
- Measurement of the differential pressure between the upstream and the downstream of the distributor
- Measurement of the input air flow by anemometric measurement (option)
- Sampling of product
- Measurement of the humidity of the inlet air
- Measurement of the humidity of the outlet air

Technical specifications :

The machine consists of :

- A fan of 1.1 Kw maximum flow of 610 m³ / h with speed variator.
- An electric heating of 6000 W regulated by PID regulator.
- A 1.54l product tank with interchangeable sieve and an expansion zone made of polycarbonate or stainless steel with polycarbonate porthole.
- Diameter of the fluidized bed 200 mm, height 1000 mm
- A sampling consisting of a tapping on the product tank and a sliding tube allowing samples to be taken during the process for analysis humidity.
- Mechanical locking of the product tank
- An air inlet with pre-filter
- Filter at the outlet of the fluidized bed
- Flexible cuff for hot and humid air duct to the outside
- Measurement of temperature and humidity at the inlet and outlet of the column.
- Measurement of the differential pressure upstream / downstream of the air distributor.
- Measurement of the temperature of the product
- Safety thermostat
- Column controlled input temperature with auto-adaptive and programmable digital PID controller.
- Measurement of air velocity by wing profile type probe.

- Electrical control and control cabinet comprising :

- Â° On / off heating resistors,
- Â° The inlet fluid temperature regulator of the fluidized bed,
- Â° The potentiometer for adjusting the air speed,
- Â° Display settings on a touch screen
- Â° Emergency stop button
- Â° Circuit breakers, transformers, LEDs

Note : Do not use with solvents or alcohols.