



MasterSpray 1250

The Anhydro MasterSpray 1250 is a small-scale production plant, designed to deliver both performance and trustworthy drying results.



Equipment Supply, Basic Plant

- Feed pump, feed tank, water tank and feed pipe
- Two-fluid nozzle atomizer, co-current
- Air intake filter, electrical air heater for main air, and hot air duct
- Drying chamber, complete with rupture disk for EX-protection
- Cyclone with powder container
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen and data-logging facility
- Support structure

Optional Equipment

- Two fluid nozzle counter-current
- Centrifugal atomizer
- High Pressure atomizer system
- Additional powder container
- Direct / indirect heaters
- Vent duct
- Q-pipe
- Pneumatic hammers
- Two point discharge
- Rotary valve
- Bag filter
- Air Broom
- Wall sweep system
- Powder cooling and conveying system
- Wet scrubber
- CIP System
- Simple ICS



The Anhydro Small Scale Plant, Type MasterSpray 1250 has been specially designed for industrial small-scale production as well as continuous operation.

The unique Modular Concept allows our customers to select a quite basic plant, onto which a vast number of high quality standardised modules can be added. The MasterSpray 1250 performs fully up-scaleable results and has received particular interest in the industry of food additives, e.g. flavours, plant extracts and functional foods. Also the pharmaceutical sector and the dairy sector use this dryer as a production unit and a pilot plant, respectively.

Technical data

Process Design Data:
 Max. Inlet air temp. 325 °C
 Max. Water Evaporation (To=70 °C) 115 kg/h
 Max. Drying Air rate 1250 kg/h
 Drying chamber dia. 2150 mm

Installed Power:
 Power supply, std. 3 x 400 V/50 Hz
 Suction fan 7,5 KW
 Main Air Heater 108 KW
 Feed pump 0,5 KW

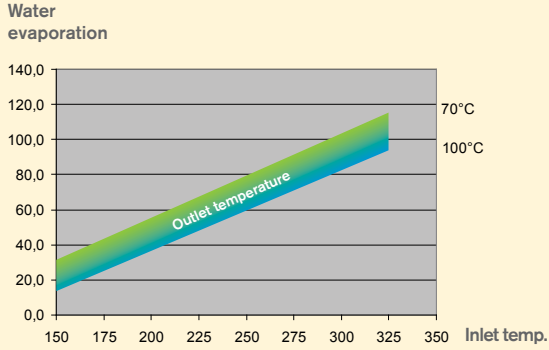
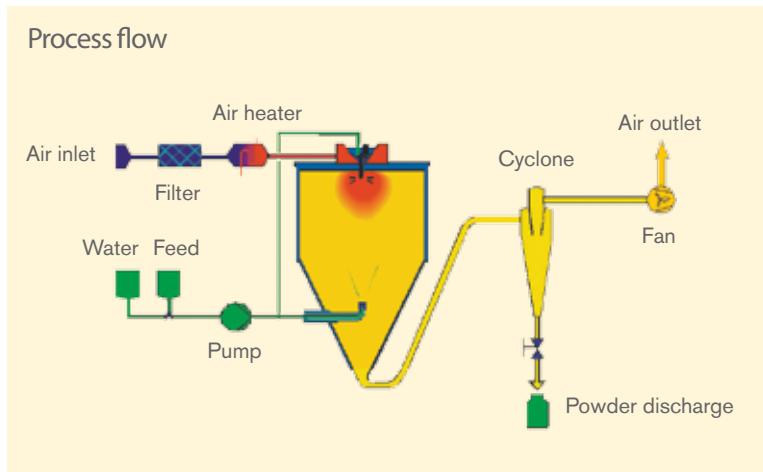
Consumption:
 Compressed air (at 1.5 - 5,6 bar (g)) 85 - 212 l/min.

Safety:
 Pressure shock resistance 1 bar (g)
 With Rupture Disk, max Kst. Value 200
 Noise emission 75 dB (A)
 Pneumatic hammers 90 dB (C)

Materials:
 Product contact parts AISI 316
 External surfaces AISI 304

Dimensions:
 Floor space 5400 x 5200 mm
 Height 5820 mm
 Total free height 6800 mm
 Shipping volume 75 m³

Complies with regulations and standards according to CE, ATEX and cGMP



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