



MasterSpray 2500 Multi-stage

The Anhydro MasterSpray 2500 Multi-stage is a small-scale production plant, designed to deliver both performance and trustworthy drying results.



Equipment Supply, Basic Plant

- High Pressure Feed pump, feed tank, water tank and feed pipe
- High Pressure atomizer system
- Air intake filter, steam heater for main air, and hot air duct
- Integrated Fluid Bed
- Drying chamber, complete with rupture disk for EX-protection
- Cyclone
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen and data-logging facility
- Support structure

Optional Equipment

- Two-fluid nozzle atomizer, co-current
- Direct / indirect heaters
- Vent duct
- Pneumatic hammers
- Wall sweep system
- Bag filter
- Air Broom
- External Fluid Bed
- Wet scrubber
- CIP System
- Simple ICS



The Anhydro Small Scale Plant, Type MasterSpray 2500 Multi-stage 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 2500 Multi-stage performs fully up-scalable 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.:	
Steam	200°C
Indirect gas	325°C
Direct gas	550°C
Max. Water Evaporation	463 kg/h

(To=70°C)

Max. Drying Air rate	2500 kg/h
Drying chamber dia.	2700 mm

Installed Power:

Power supply, std.	3 × 400 V/50 Hz
Suction fan	11 KW
Pressure fan	7 KW
Main Air Heater	Steam
Air heater, Int. fluid bed	20 KW
IFB fan	2,7 KW
Fines return fan	2,2 KW
Feed pump	2,2 KW

Safety:

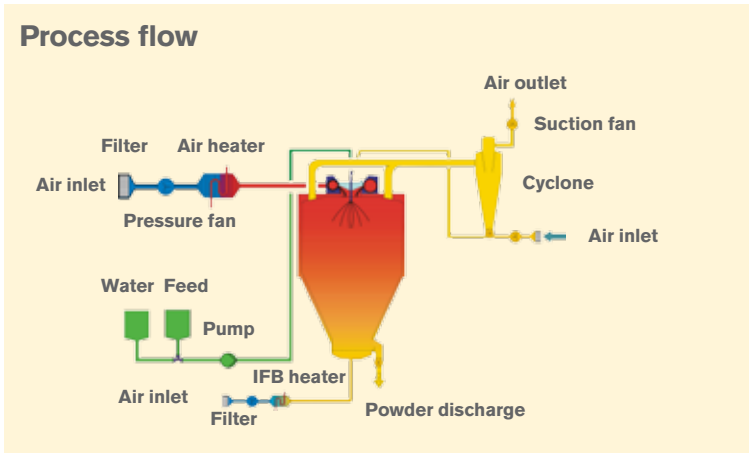
Pressure shock resistance	1 bar (g)
With Rupture Disk,	200
max Kst. Value	
Noise emission	75 dB (A)
Pneumatic hammers	90 dB (C)

Materials:

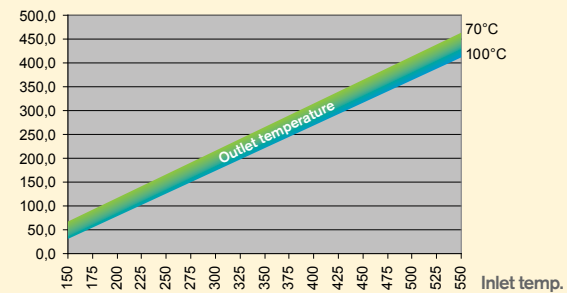
Product contact parts	AISI 316
External surfaces	AISI 304

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

Process flow



Water evaporation



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