



# MasterSpray 2500

*The Anhydro MasterSpray 2500 is a smallscale production plant, designed to deliver both performance and trustworthy drying results.*



## Equipment Supply, Basic Plant

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

## Optional Equipment

- Two fluid nozzle co-current
- High Pressure atomizer system
- Direct / indirect heaters
- Vent duct
- Pneumatic hammers
- Two point discharge
- 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 2500 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 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 ( $T_o=70^\circ\text{C}$ )	463 kg/h
Max. Drying Air rate	2500 kg/h
Drying chamber dia.	2700 mm

### Installed Power:

Power supply, std.	3 x 400 V/50 Hz
Suction fan	11 KW
Main Air Heater	Steam
Feed pump	0,75 KW

### 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

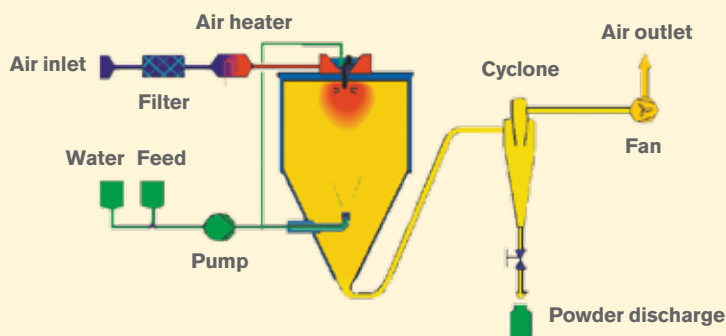
### Dimensions:

Floor space	6000 x 7000 mm
Height	7700 mm
Total free height	8700 mm

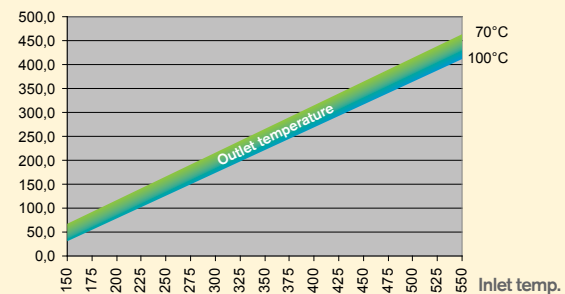
### Complies with

regulations & standards  
according to CE, ATEX, cGMP

## Process flow



## Water evaporation



SPX Flow Technology Danmark A/S  
7 Oestmarken  
DK-2860 Soeborg  
Denmark  
Phone +45 7027 8222 Fax: +45 7027 8223  
www.spxft.com

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