



# MicraSpray 400 Multi-stage

*The Anhydro MicraSpray 400 Multi-stage is one of the most versatile plants in the Small Scale Plants range, and is designed to deliver trustworthy, up-scalable 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 disc for EX-protection
- Integrated Fluid Bed with separate air supply system and fines return system under cyclone
- Cyclone
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen
- Support structure

## Optional Equipment

- High Pressure atomizer system
- Data-logging facility
- Additional powder container
- Vent duct
- Indoor Explosion Venting System
- Pneumatic hammers
- Rotary valve
- Bag filter
- Air Broom
- Wall sweep system
- External Fluid Bed
- Wet scrubber
- CIP System
- Simple Integrated Cleaning System
- Single stage mode
- cGMP



The Anhydro Small Scale Plant, Type MicraSpray 400 Multi-stage has been specially designed for industrial R&D work, as well as for small scale, campaign and continuous production.

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 MicraSpray 400 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.	325°C
Max. Water Evaporation (To=70°C)	37 kg/h
Max. Drying Air rate	400 kg/h
Drying chamber dia.	1150 mm

### Installed Power:

Power supply, std.	3 × 400 V/50 Hz
Rotary valve	0,25 KW
Suction fan	2,7 KW
Main Air Heater	35 KW
IFB Air Heater	5 KW
IFB fan	1,0 KW
Fines return blower	1,75 KW
Feed pump	0,25 KW

### Consumption:

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

Pressure shock resistance	1 bar (g)
With Rupture Disk, max Kst. Value	200
Noise emission	80 dB (A)
Pneumatic hammers	90 dB (C)

### Materials:

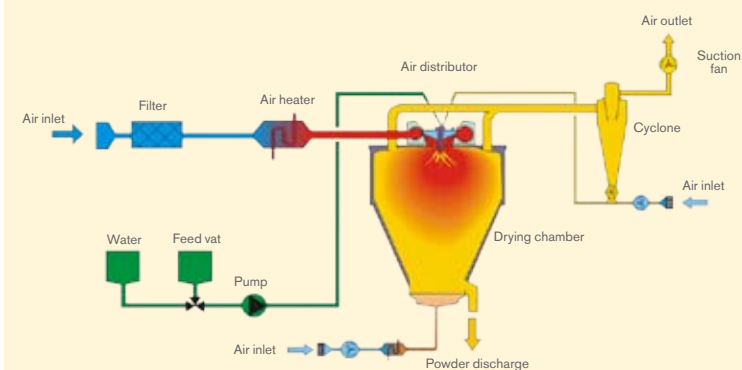
Product contact parts	AISI 316
External surfaces	AISI 304

### Dimensions:

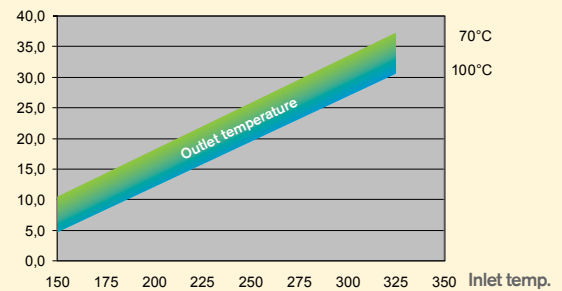
Floor space	3000 × 3000 mm
Height	4000 mm
Total free height	4700 mm

Complies with regulations and standards according to CE and ATEX

## Process flow



## Water evaporation



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