



# MicraSpray 400

*The Anhydro MicraSpray 400 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
- Co-current two-fluid nozzle atomizer
- Air intake filter, electrical air heater for main air, and hot air duct
- Drying chamber, complete with rupture disc for EX-protection
- Cyclone with powder container
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen
- Support structure

## Optional Equipment

- Two fluid nozzle co-current
- Counter-current two-fluid nozzle atomizer
- Additional powder container
- Data logging facility
- Vent duct
- Indoor Explosion Venting System
- Pneumatic hammers
- Two point discharge
- Rotary valve
- Bag filter
- Air Broom
- Wet scrubber
- CIP System
- Simple Integrated Cleaning System

## Other Versions

- Closed Circuit
- cGMP



The Anhydro Small Scale Plant, Type MicroSpray 400 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 MicroSpray 400 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

<b>Process Design Data:</b>	
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

<b>Installed Power:</b>	
Power supply, std.	3 × 400 V/50 Hz
Suction fan	2,7 KW
Main Air Heater	35 KW
Feed pump	0,25 KW

<b>Consumption:</b>	
Compressed air (at 1.5-5,6 bar (g))	144-315 l/min.

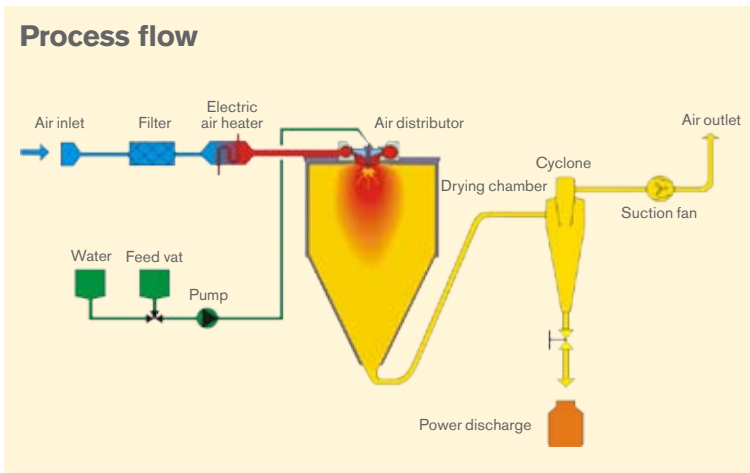
<b>Safety:</b>	
Pressure shock resistance	1 bar (g)
With Rupture Disk, max Kst. Value	200
Noise emission	80 dB(A)
Pneumatic hammers	90 dB (C)

<b>Materials:</b>	
Product contact parts	AISI 316
External surfaces	AISI 304

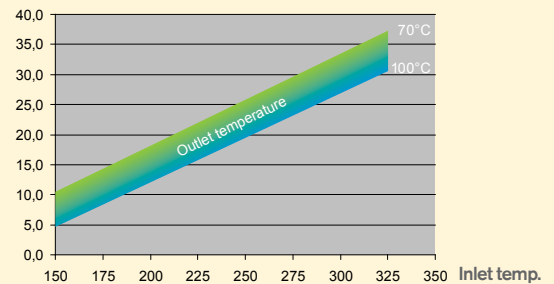
<b>Dimensions:</b>	
Floor space	2700 × 2100 mm
Height	3000 mm
Total free height	3700 mm
Shipping volume	10 m <sup>3</sup>
Weight, Gross	1700 kg
Weight, Net	1100 kg

Complies with regulations and standards according to CE and ATEX

## Process flow



## Water evaporation



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