



MicraSpray 35

The Anhydro MicraSpray 35 enables the design of particles with specified characteristics in a controlled environment, making it ideal for small scale conversion of liquids into powders. The spray drying principle offers a clear path forward with predictable scalability enabling straightforward transfer from the laboratory to manufacturing.



cGMP design for clinical production:

- › Fast processing
- › Aqueous and non-aqueous formulations
- › Molecule stabilization
- › Amorphous compound isolation
- › Solid dispersions
- › Processing of heat liable materials
- › Inhalation delivery of fine particles
- › Morphology control
- › Micro encapsulation
- › Controlled release
- › Taste masking

May replace the following unit operations:

- › Lyophilization
- › Centrifuging
- › Crystallization
- › Filtering
- › Extraction
- › Milling
- › Classification

Special executions available:

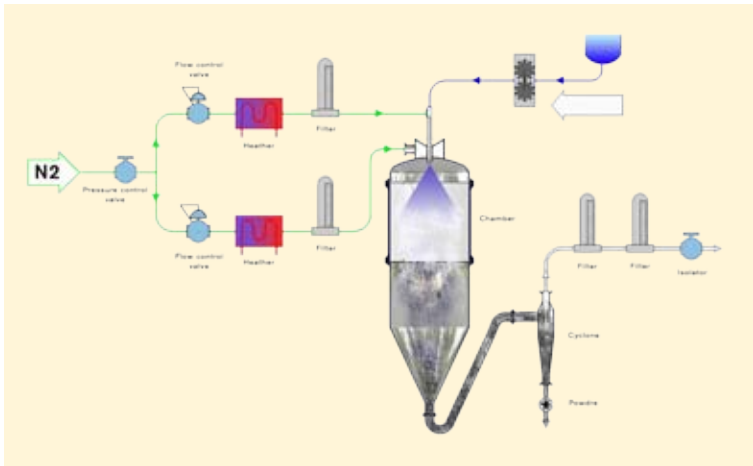
- › Pyrogen free processing
- › Aseptic processing
- › Potent compounds
- › Live biologics



The small scale plant, Type MicraSpray 35 has been especially designed for pharmaceutical R&D work as well as small scale and continuous production.

The unique modular concept makes it possible to start with a basic plant, onto which a vast number of high quality standardized modules can be added.

The MicraSpray 35 performs fully transferable results and has received particular interest in the pharmaceutical and dairy sectors as well as areas within food additives, flavours, plant extracts and functional foods. This dryer can be used for both production and pilot plant units.



Technical data

Process Design Data:

Max. inlet air temp.	220°C
Outlet gas temp.	30-120°C
Max. water evaporation (To=60°C)	1 kg/h
Max. drying air rate	35 kg/h
Drying chamber dia.	300 mm

Installed Power:

Power supply, std.	1 × 220 V/60 Hz
Main air heater	4 KW
Nozzle air heater	0.5 KW
Jacket heater	0.9 KW
Cyclone heater	0.3 KW
Feed pump	0.3 KW

Air consumption:

Compressed air/ Nitrogen (at 1.5 - 5.6 bar (g))	50-140 l/min.
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Atomization Gas Rate: 0-3 kg/h

Safety:

Pressure relief	< 1 bar
Noise emission	< 75 dba

Materials:

Product contact parts	AISI 316
Non-product surfaces	AISI 304

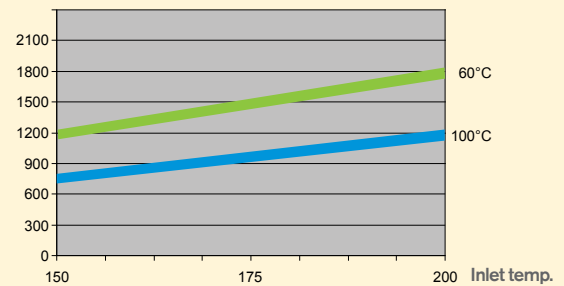
Feed Rate: 0.3 to 3 kg/h

Dimensions:

Floor space	0.51 m ³
Height	2000 mm
Shipping volume	10 m ³
Weight, gross	300 kg
Weight, net	250 kg

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

Water evaporation



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