



MicraSpray 75

The Anhydro MicraSpray 75 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 - Full closed circuit option
- › Molecule stabilization
- › Amorphous compound isolation
- › Solid dispersions
- › Processing of heat labile 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

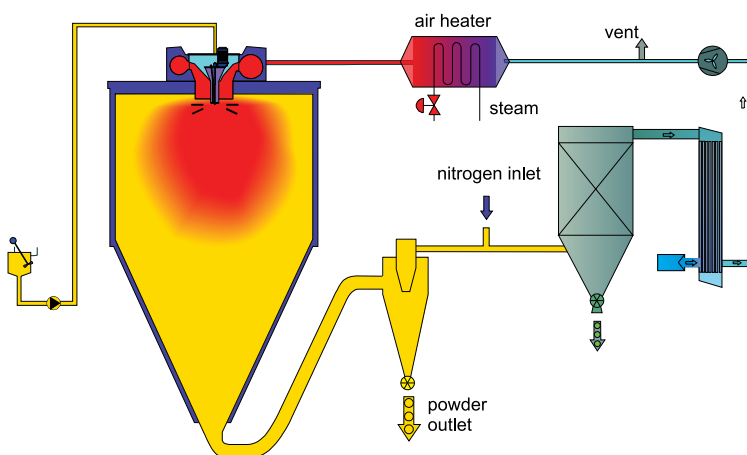


The small scale plant, type MicroSpray 75, has been especially designed for pharmaceutical R&D work as well as small scale and continuous production.

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 MicroSpray 75 performs fully transferable results and has attracted particular interest in the pharmaceutical and dairy sectors and within food additives, nutrition, flavours, plant extracts and functional foods. This dryer can be used for both production and pilot plant applications.

Process flow:



Technical data

Process Design Data:	
Max. inlet air temp.	200°C
Outlet gas temp.	30-120°C
Max. water evaporation ($T_0=60^\circ\text{C}$)	2 kg/h
Max. drying air rate	75 kg/h
Drying chamber dia.	600 mm

Installed Power:	
Single phase	208-230 V/60 Hz
or	3 x 400 V/50 Hz
Heating	6 kW
Motors	2 kW

Consumption:	
Nitrogen	45 SCFM
(at 6 bar (g))	77 SCMH

Atomization Gas Rate:	0-15 kg/h
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Safety:	
Pressure resistance	0.5 bar

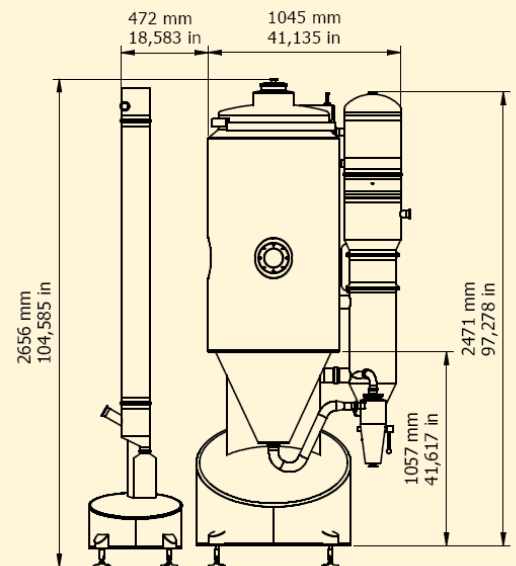
Materials:	
Product contact parts	AISI 316
Non-product surfaces	AISI 304

Feed Rate:	0.6 to 6 kg/h
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Dimensions:	
Floor space	1.5 m ³
Height	2000 mm
Shipping volume	10 m ³
Weight, gross	500 kg
Weight, net	450 kg

Chilled Water Consumption:	-35 to -10°C
	1000 kg/h

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



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Issued: October/2010

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