



# MicraSpray 150

*The Anhydro MicraSpray 150 is a versatile plant in the range of Small Scale Plants, and is designed to deliver trustworthy, upscaleable results.*



## Equipment Supply, Basic Plant

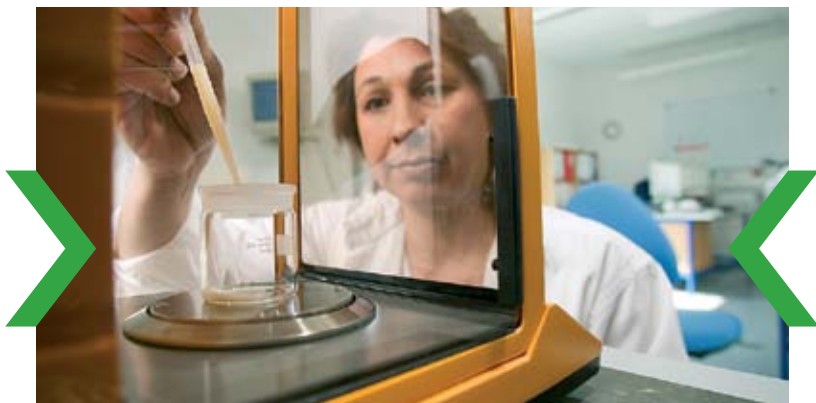
- Feed tank and feed line
- Co-current two-fluid nozzle atomizer
- Air intake filter, electrical air heater for main air, and hot air duct
- Drying chamber, complete with rupture disc for EX-protection
- Cyclone with powder container
- Fan and ducts
- Control panel with PLC and graphical soft-touch screen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

## Optional Equipment

- Peristaltic feed pump
- Counter-current two-fluid nozzle atomizer
- Centrifugal atomizer
- Additional powder container
- Vent duct
- Indoor explosion venting system
- Data logging facility
- Pneumatic hammers
- Two point discharge
- Rotary valve
- Bag filter
- Simple integrated cleaning system (ICS)
- Noise attenuation

## Other Versions

- Closed Circuit version
- cGMP

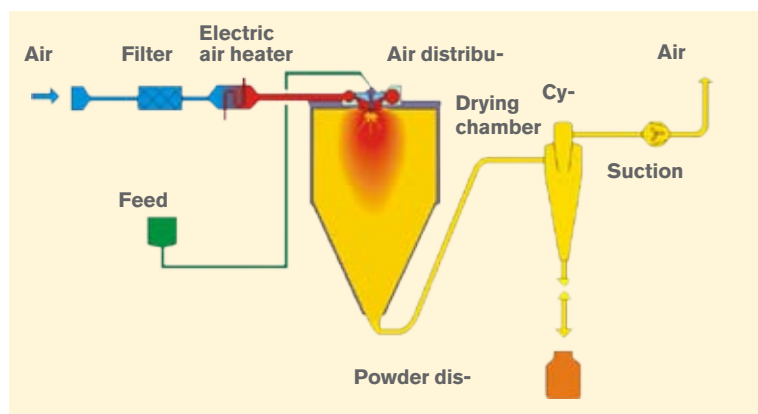


Anhydro Small Scale Spray dryers have been supplied to more than 1200 private companies, R & D institutions and universities worldwide. The MicraSpray 150 is ideal for product development and even small-scale production. This dryer features flexibility, modern process control and produces scalable process results.

The liquid product is fed to the atomizer system where it is dispersed into a mist of fine droplets in the drying chamber. The electrically heated process air is introduced into the chamber through a ceiling mounted air distributor. In the drying chamber the atomized liquid is closely mixed with the drying air causing the droplets to dry out.

The powdered particles and drying air are ducted to a cyclone where the powder is collected and the spent drying air is exhausted through an exhaust air duct.

## Process flow



## Technical data

<b>Process Design Data</b>	
Max. inlet air temp.	350°C
Max. Water evaporation approx. (To=70°C)	14 kg/h
Maximum drying air rate	150 kg/h
Drying chamber dia.	900 mm

<b>Installed power</b>	
Power supply	3 × 400 V
Frequency	50 Hz
Suction fan	1 kW
Main air heater	15 kW

<b>Consumption</b>	
Compressed air ((at 1,5-5,6 bar (g)))	58-247 l/min

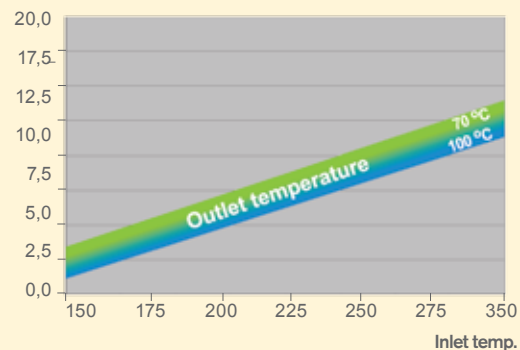
<b>Safety</b>	
Pressure shock resistance With rupture disc	1 bar (g)
Max. kst. value	200
Noise emission	80 dB (A)
Pneumatic hammer	90 dB (C)

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

<b>Dimensions</b>	
Floor space	1900 × 1350 mm
Height	2300 mm
Total free height	3000 mm
Shipping volume	8.6 m <sup>3</sup>
Weight, Gross	1100 kg
Weight, Net	600 kg

Complies with regulations and standards according to CE and ATEX.

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

For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.spxft.com](http://www.spxft.com). SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.