

# MICRASPRAY 750

## SINGLE-STAGE

### SMALL-SCALE PLANT



The Anhydro® MicraSpray 750 Small-Scale Spray Dryer is designed for small scale production at R&D departments, universities and public institutions and is used worldwide by customers in the dairy, food, chemical and pharmaceutical industries.

The MicraSpray 750 is designed with specific focus on flexibility in design and configuration, safety during operation, process control, ease of cleaning, sanitary design and scalability. It is based on a unique modular concept consisting of a basic plant and a large number of optional items, enabling customers to customise each plant to match their exact requirements.

#### Included Equipment for a Basic Plant

- Feed pump
- Feed tank
- Water tank
- Feed pipe
- Two-fluid nozzle atomizer, co-current
- Air intake filter
- Electrical air heater for main air and hot air duct
- Drying chamber with rupture disc for explosion protection
- Cyclone with powder container
- Fan and duct
- Control panel with PLC including touch color screen
- Support structure
- Data logging

#### Other Version

- Closed circuit
- Multi-stage

#### Optional Equipment for a Basic Plant

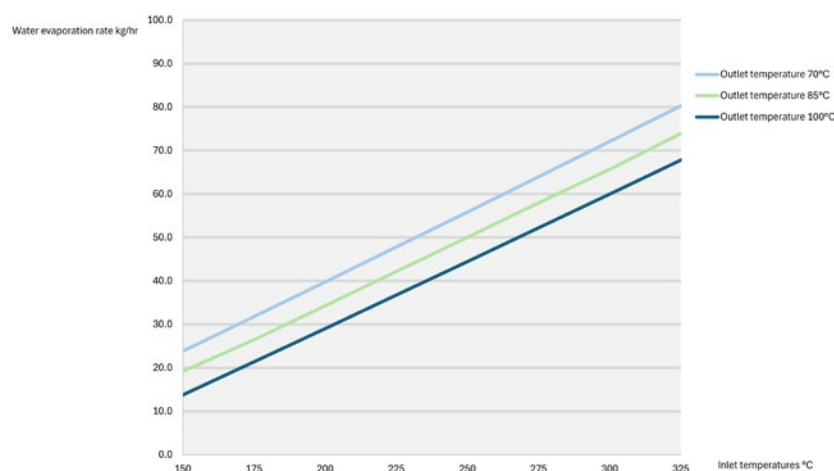
- Two-fluid nozzle atomizer, counter-current
- Centrifugal atomizer
- High-pressure nozzle atomizer system
- Direct or indirect gas-fired heater
- Vent duct
- Indoor explosion venting system
- Explosion suppression system
- Pneumatic hammers
- Two-point discharge
- Rotary valve
- Hepa filters
- Bag filter
- Air broom
- Powder cooling and conveying system
- Wet scrubber
- CIP system
- Simple integrated cleaning system (ICS)
- GMP/Qualification documentation (IQ/OQ)
- GMP execution
- Noise attenuation

ANHYDRO MICRASPRAY 750	
Max. Inlet Air Temperature	350°C
Max. Water Evaporation (Outlet Temp. 70°C)	80 kg/h
Max. Drying Air Rate	750 kg/h
Drying Chamber Diameter	1,600 mm
Power Supply, Standard, At 50 Hz	3 x 400 V
Suction Fan	6 kW
Main Air Heater	70 kW
Feed Pump	0.5 kW
Compressed Air Consumption at 1.5 to 5.6 bar (G)	85-212 l/min

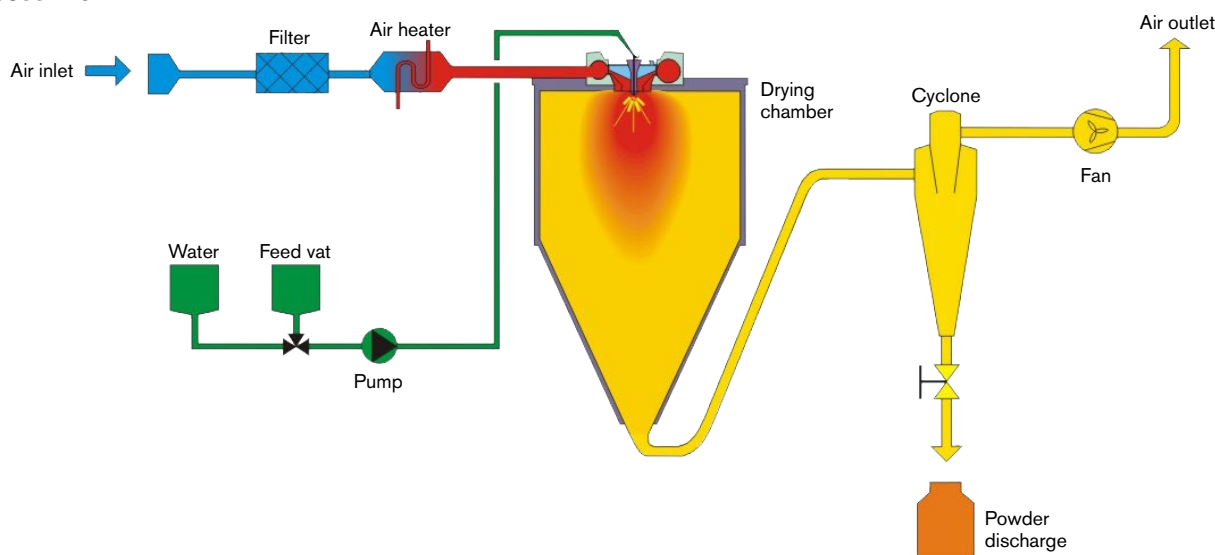
ANHYDRO MICRASPRAY 750	
Pressure Shock Resistance	1 bar
Max. Kst. Value (With Rupture Disc)	up to 299 bar · m/s
Noise Emission*	85 dB (A)
Product Contacting Parts	AISI 316
Non-Product Contacting Surfaces	AISI 304
Floor Space (lxw)	4,500 x 4,000 mm
Height	3,900 mm
Total Free Height	6,100 mm
Weight, Net*	3,775 kg

The Micra Spray 750 plant design complies with European Directives covering CE, ATEX and GMP Guidelines for Food Contact Materials. Compliance to specific legislation outside Europe is for negotiation.

\* Approximately



## Process Flow



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