

## Anhydro MicraSpray 150

Small Scale Dryer

The small scale spray drying plant, Anhydro MicraSpray 150, is designed for drying of products in small-scale production, R&D departments, universities and public institutions worldwide. This dryer is designed with specific focus on flexibility in the design and configuration, safety during operation, process control, ease of cleaning/sanitary design and scalability.

The small scale dryer is used worldwide by customers in the food, dairy, chemical and pharmaceutical industries.

The design of the dryer is based on a unique modular concept consisting of a basic plant and a large number of optional items, which enables customers to customize each plant to match their exact requirements.

### Included Equipment for a Basic Plant

- Feed vat
- Peristaltic feed pump
- Feed line
- Two-fluid nozzle atomizer, co-current
- Air intake filter
- Electrical air heater
- Drying chamber with rupture disc for explosion protection
- Drying chamber prepared for installation of pneumatic hammer(s)
- Cyclone with powder container
- Exhaust fan and ducting
- Control panel with PLC incl. touch screen and data logging facility
- Support structure

### Other Versions

- Closed circuit



### Optional Equipment for a Basic Plant

- Two-fluid nozzle atomizer, counter-current
- Centrifugal Atomizer with optional ATEX components
- Fine inlet air filter or HEPA filters
- Pneumatic hammer
- Two-point discharge
- Rotary valve
- Bag filter
- Additional powder container
- Vent duct
- Indoor explosion venting system
- Simple manual cleaning equipment
- GMP/Qualification documentation (IQ, OQ)

**For other specific requirements please contact SPX FLOW**

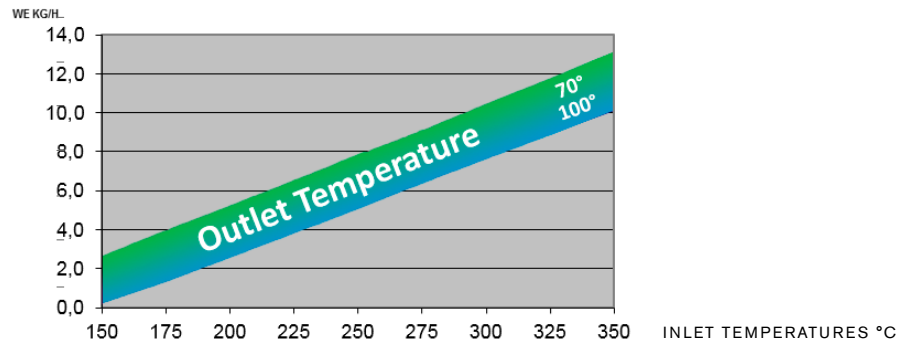
**ANHYDRO MICRASPRAY 150**

MAX. INLET AIR TEMPERATURE	350°C	MAX. KST. VALUE (WITH RUPTURE DISC)	299 bar <sub>m</sub> xS-1
MAX. WATER EVAPORATION (OUTLET TEMP. 70°C)*	14 kg/H	NOISE EMISSION*	85 dB (A)
MAX. DRYING AIR RATE	150 kg/H	PRODUCT CONTACTING PARTS	AISI 316
DRYING CHAMBER DIAMETER	900 mm	EXTERNAL SURFACES	AISI 304
POWER SUPPLY, STANDARD, AT 50 Hz	3x400 V	FLOOR SPACE LxW	2.5x1.35 m
SUCTION FAN	3 kW	HEIGHT	2.5 m
AIR HEATER	15 kW	RECOMMENDED FREE HEIGHT	3.2 m
COMPRESSED AIR CONSUMPTION AT 1.5 TO 5.6 bar (G)	58-247 N L/min	WEIGHT, NET*	900 kg
PRESSURE SHOCK RESISTANCE, CHAMBER	1 bar		
PRESSURE SHOCK RESISTANCE, CYCLONE	10 bar		
PRESSURE SHOCK RESISTANCE, FAN	10 bar		

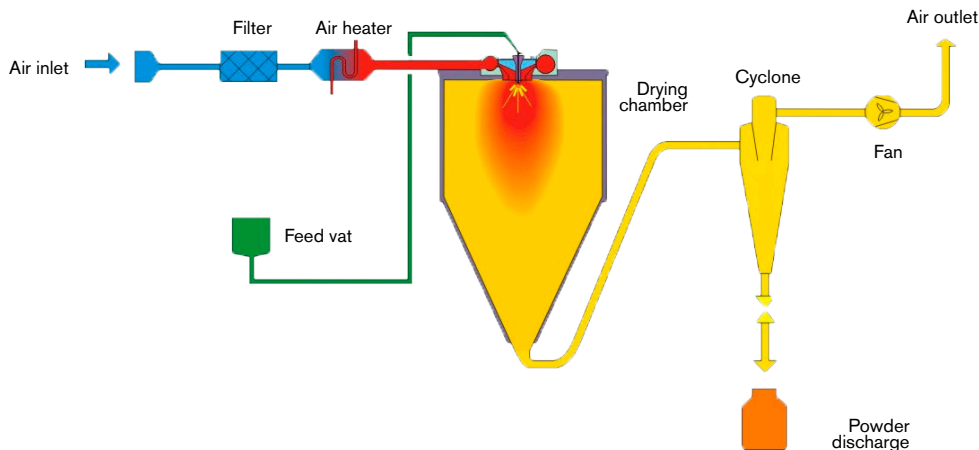
\* Approximately

The MicroSpray 150 plant design complies with regulations and standards according to CE, ATEX, and GMP guidelines for material intended to come into contact with Food.

WATER EVAPORATION (kg/H)



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Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit [www.spxflow.com](http://www.spxflow.com)

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