

## MICRASPRAY 150 CC

### ANHIDRO SMALL-SCALE PLANTS



The closed-circuit small-scale spray dryer, MicraSpray 150CC, is designed for drying of products in flammable organic solvents in small-scale production for R&D purposes at universities and public institutions and is used worldwide by customers in the dairy, food, chemical and pharmaceutical industries.

The small-scale spray dryer is designed with specific focus on flexibility in design and configuration, safety during operation, process control, easy cleaning, sanitary design, scalability and low emission levels. It is based on a unique modular concept consisting of a basic plant and a large number of optional items, enabling customers to customize each plant to match their exact requirements.

#### Basic Plant Equipment

- Feed pipe
- Two-fluid nozzle atomizer, co-current
- Air intake filter
- Electrical air heater for main air and hot air duct
- Drying chamber
- Cyclone with powder container
- Fan and duct
- Control panel with PLC incl. touch screen
- Data logging
- Support structure
- Nitrogen pressure control
- Oxygen monitoring
- Condenser
- Peristaltic feed pump
- Vent duct
- Pneumatic hammer
- HEPA filters
- Bag filter

#### Options

- Two-fluid nozzle atomizer, counter-current
- Centrifugal atomizer
- Additional powder container
- Simple manual cleaning equipment
- GMP documentation (IQ, OQ) FAT, SAT protocols
- GMP execution
- Noise attenuation

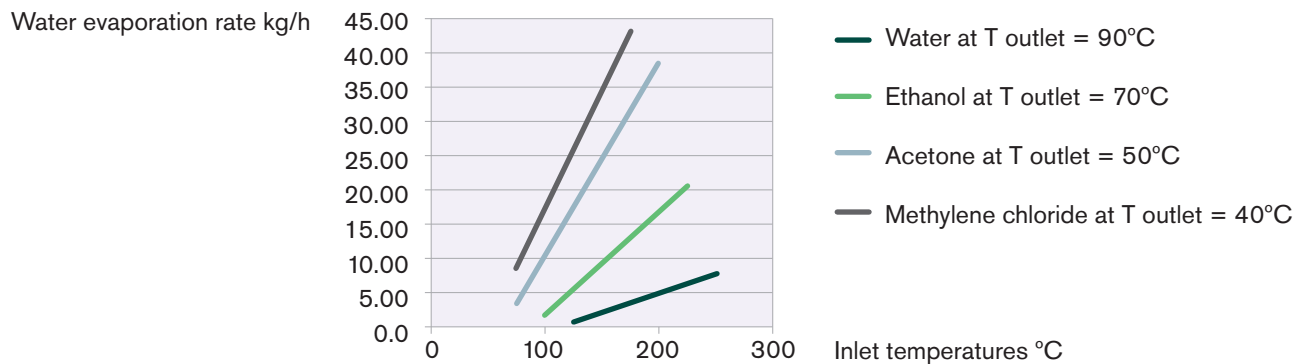
#### Other configurations

- Nitrogen single pass

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

ANHYDRO MICRASPRAY 150 CC		ANHYDRO MICRASPRAY 150 CC	
Max. inlet air temperature	200°C	Noise emission*	80 dB(A)
Max. drying air rate	150 kg/h	Product contacting parts	AISI 316L
Drying chamber diameter	900 mm	External surfaces	AISI 304
Power supply, standard, at 50 Hz	3x400 V	Floor space L x W	4.1*1.9 m
Suction fan	2.2 kW	Height	3.1 m
Electrical N <sub>2</sub> heater	18 kW	Recommended free height	3.1 m
Feed pump	0.18 kW	Weight, net approx.	1,800 kg
N <sub>2</sub> consumption	5-25 Nm <sup>3</sup> /h		

The MicraSpray 150CC plant design complies with CE, ATEX and GMP guidelines for food contact material.



### Process Flow

