

MICRASPRAY 150 CC

ANHYDRO 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 customise 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

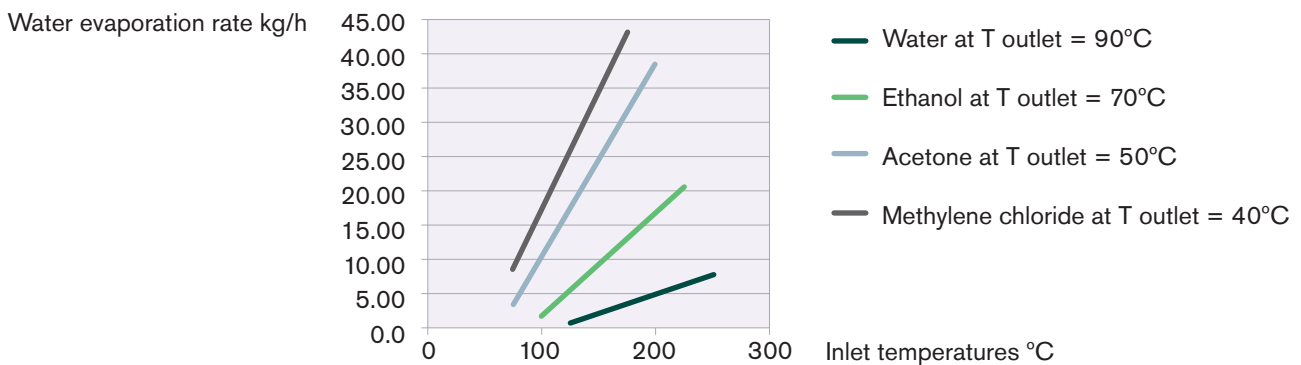
Other configurations

- Nitrogen single pass

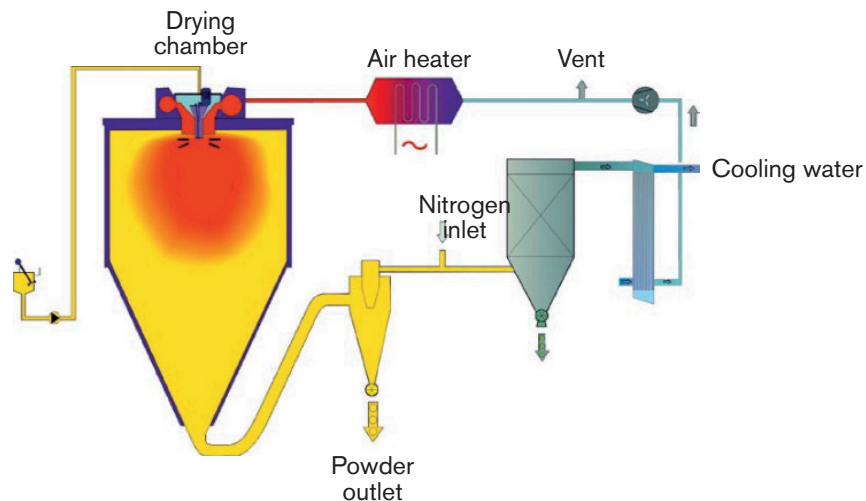
For specific requirements, please contact SPX FLOW

| 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 ₂ heater | 18 kW | Recommended free height | 3.1 m |
| Feed pump | 0.18 kW | Weight, net approx. | 1,800 kg |
| N ₂ consumption | 5-25 Nm ³ /h | | |

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



Process Flow



SPXFLOW®

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