

Anhydro MicraSpray 400 CC

Small Scale

The small scale closed circuit spray drying plant, Anhydro MicraSpray 400 CC, is designed for drying of products in flammable organic solvents in small-scale production at R&D departments or 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, scalability and low emission levels.

The small scale closed circuit 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. The closed circuit spray dryer is designed for ATEX zones compliance.



Equipment Included for a Basic Plant

- 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
- Support structure
- Nitrogen pressure control
- Oxygen monitoring
- Condenser
- Peristaltic feed pump
- Vent duct
- Data logging
- Pneumatic hammer
- Hepa filters
- Bag filter

Optional Equipment for a Basic Plant

- Two-fluid nozzle atomizer, counter-current
- Centrifugal atomizer
- Additional powder container
- Two-point discharge
- Simple integrated cleaning system (ICS)
- GMP documentation (IQ, OQ)
- GMP execution
- Noise attenuation

Other Versions

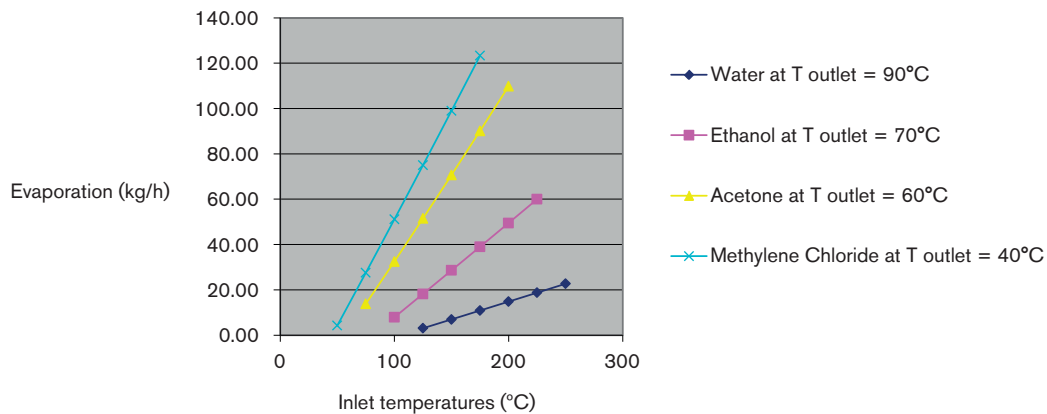
- Nitrogen single pass

ANHIDRO MICRASPRAY 400 CC	
MAX. INLET AIR TEMPERATURE	200°C
MAX. DRYING AIR RATE	400 KG/H
DRYING CHAMBER DIAMETER	1,100 MM
POWER SUPPLY, STANDARD, AT 50 Hz	3x400 V
SUCTION FAN	4 kW
ELECTRICAL N ₂ HEATER	35 kW
ATOMIZER GAS HEATER	1.0 kW
FEED PUMP	0.5 kW
N ₂ CONSUMPTION	10-30 NM ³ /H
ATEX CLASSIFICATION	ZONE 2

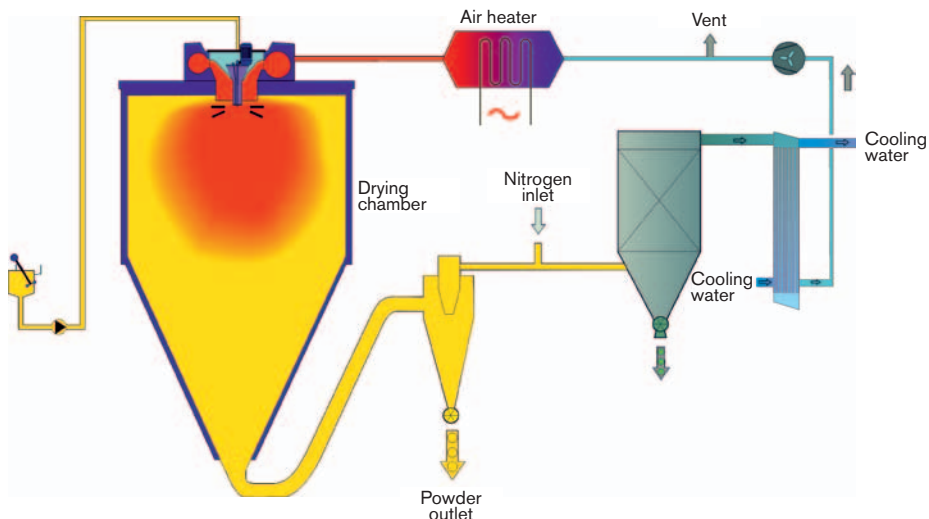
ANHIDRO MICRASPRAY 400 CC	
DESIGN PRESSURE	+/- 0.1 BAR
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
EXTERNAL SURFACES	AISI 304
FLOOR SPACE LxW	4.0x3.56 M
HEIGHT	3.01 M
RECOMMENDED FREE HEIGHT	3.5 M
SHIPPING VOLUME	15 M ³
WEIGHT, GROSS*	2,700 KG
WEIGHT, NET*	2,250 KG

* Approximately.

The MicroSpray 400 CC plant complies with regulations and standards according to CE and ATEX.



Process flow



Denmark: P: +45 7027 8222 F: +45 7027 8223 E: ft.dk.soeborg@spx.com

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