

Anhydro MicraSpray 400

Small Scale

The small scale spray drying plant, Anhydro MicraSpray 400, 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.

Anhydro MicraSpray 400 is used worldwide by customers in the food, dairy, chemical and pharmaceutical industries.

The design of the Anhydro MicraSpray 400 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 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 incl. touch color screen
- Support structure

Optional Equipment for a Basic Plant

- Two-fluid nozzle atomizer, counter-current
- Centrifugal atomizer
- High pressure nozzle atomizer system



- Additional powder container
- 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 documentation (IQ, OQ)
- GMP execution
- Noise attenuation
- Data logging

Other Version

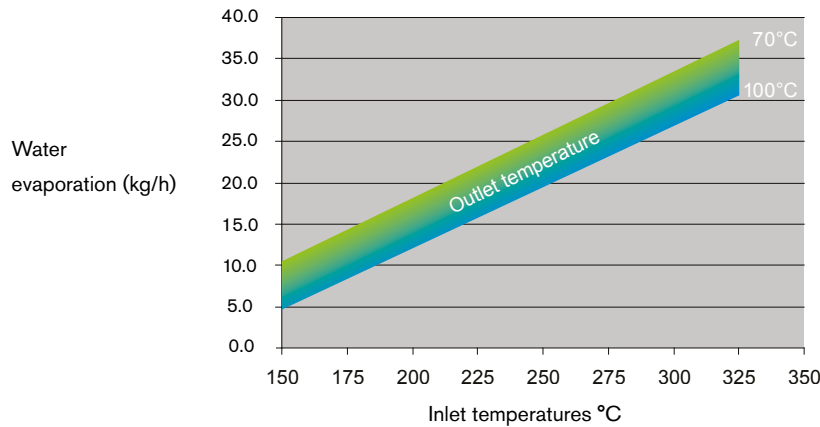
- Closed circuit

ANHYDRO MICRASPRAY 400	
MAX. INLET AIR TEMPERATURE	325°C
MAX. WATER EVAPORATION (OUTLET TEMP. 70°C)	37 KG/H
MAX. DRYING AIR RATE	400 KG/H
DRYING CHAMBER DIAMETER	1,150 MM
POWER SUPPLY, STANDARD, AT 50 Hz	3x400 V
SUCTION FAN	2.7 kW
MAIN AIR HEATER	35 kW
FEED PUMP	0.25 kW
COMPRESSED AIR CONSUMPTION AT 1.5 TO 5.6 BAR (G)	144-315 L/MIN
PRESSURE SHOCK RESISTANCE	1 BAR

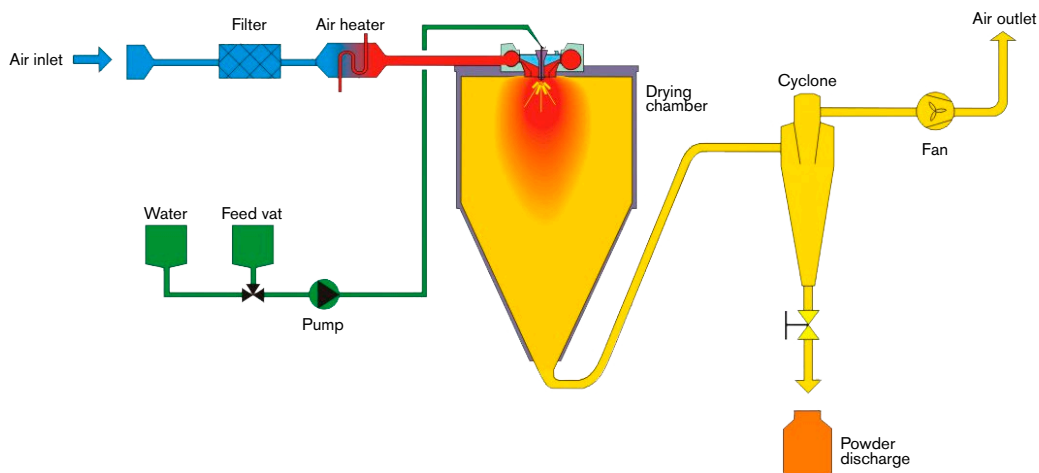
ANHYDRO MICRASPRAY 400	
MAX. KST. VALUE (WITH RUPTURE DISC)	200 BARxMxS ⁻¹
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
NON-PRODUCT CONTACTING SURFACES	AISI 304
FLOOR SPACE LxW	3,300x2,000 MM
HEIGHT	3,000 MM
TOTAL FREE HEIGHT	3,700 MM
SHIPPING VOLUME	10 M ³
WEIGHT, GROSS*	1,700 KG
WEIGHT, NET*	1,100 KG

* Approximately.

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



Process flow



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

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