

Anhydro MicraSpray 400 Multi-Stage

Small Scale

The Anhydro MicraSpray 400 multi-stage is one of the most versatile plants in the small-scale plants range and is designed to deliver trustworthy, up-scalable drying results.

The Anhydro MicraSpray 400 multi-stage has been specially designed for industrial R&D work as well as for small-scale, campaign and continuous production.

The unique modular concept allows customers to select a quite basic plant to which a vast number of high quality standardized modules can be added. The MicraSpray 400 multi-stage performs fully up-scalable results and has received particular interest in the industry of food additives, e.g. flavors, plant extracts and functional foods. Also the pharmaceutical sector and the dairy sector use this dryer as a production unit and a pilot plant, respectively.

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
- Integrated fluid bed with separate air supply system and fines return system under cyclone
- Cyclone
- Fans and ducts
- Control panel with PLC incl. color touch screen
- Support structure



Optional Equipment for a Basic Plant

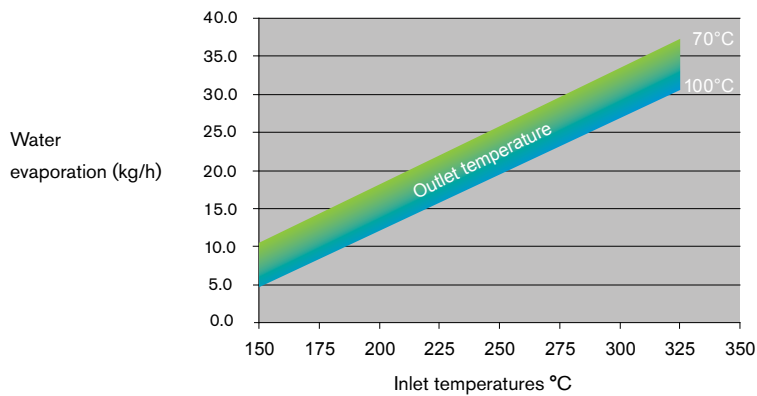
- High pressure nozzle atomizer system
- Additional powder container
- Data-logging
- Vent duct
- Indoor explosion venting system
- Explosion suppression system
- Pneumatic hammers
- Rotary valve
- Hepa filters
- Bag filter
- Air broom
- External fluid bed
- Wet scrubber
- CIP system
- Integrated cleaning system (ICS)
- cGMP documentation (IQ, OQ, fat/sat)
- GMP execution
- Single-stage equipment

ANHYDRO MICRASPRAY 400 MULTI-STAGE	
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
IFB AIR HEATER	5 kW
IFB FAN	1.0 kW
PRESSURE FAN	1.5 kW
FINES RETURN BLOWER	1.75 kW

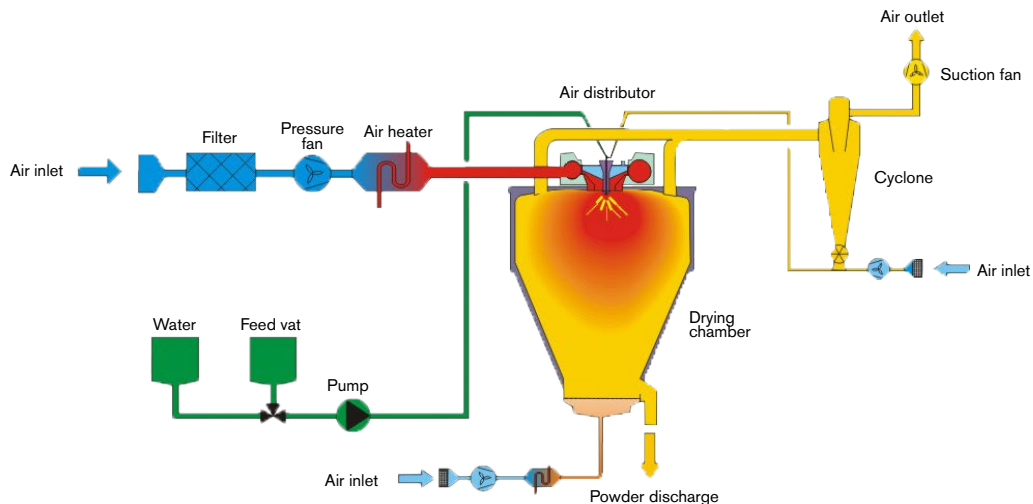
ANHYDRO MICRASPRAY 400 MULTI-STAGE	
FEED PUMP	0.25 kW
COMPRESSED AIR CONSUMPTION AT 1.5 TO 5.6 BAR (G)	85-212 L/MIN
PRESSURE SHOCK RESISTANCE	1 BAR
MAX. KST. VALUE (WITH RUPTURE DISC)	200 BARxMxS ⁻¹
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
EXTERNAL SURFACES	AISI 304
FLOOR SPACE LxW	3,700x3,700 MM
HEIGHT	4,300 MM
TOTAL FREE HEIGHT	5,000 MM

* Approximately.

The MicraSpray 400 multi-stage 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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