

## Anhydro MasterSpray 2500

Small Scale

The small scale spray drying plant, Anhydro MasterSpray 2500, 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 MasterSpray 2500 is used worldwide by customers in the food, dairy, chemical and pharmaceutical industries.

The design of the Anhydro MasterSpray 2500 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
- Steam heater for main air and hot air duct
- Drying chamber with rupture disc for explosion protection
- Cyclone with powder container
- Fans and ducts
- Control panel with PLC incl. color touch screen
- Support structure

### Optional Equipment for a Basic Plant

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



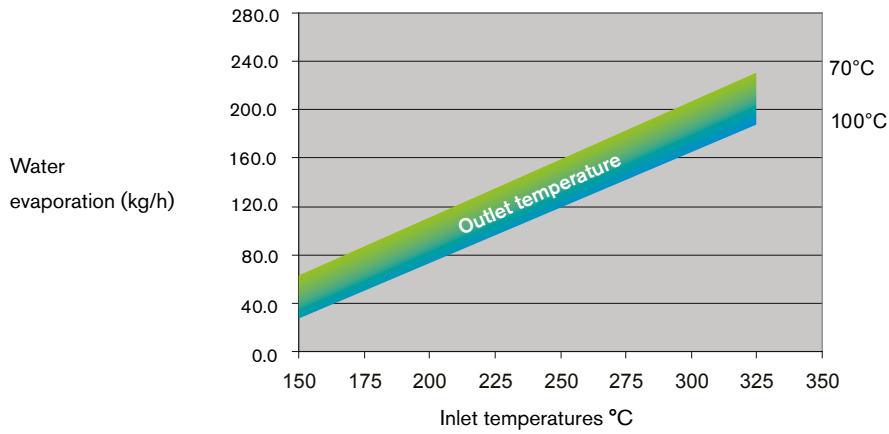
- Additional powder container
- Direct or indirect gas fired heater
- Electrical booster heater combined with steam heater
- Vent duct
- Indoor explosion venting system
- Explosion suppression system
- Pneumatic hammers
- Two point discharge
- Rotary valve
- Hepa filters
- Bag filter
- Air broom
- Powder cooling and conveying system
- Wet scrubber
- CIP system
- Simple integrated cleaning system (ICS)
- GMP documentation (IQ, OQ)
- GMP execution
- Noise attenuation
- Data-logging

ANHYDRO MASTERSPRAY 2500	
MAX. INLET AIR TEMP. WITH STEAM HEATER	200°C
MAX. INLET AIR TEMP. WITH INDIRECT GAS HEATER	325°C
MAX. INLET AIR TEMP. WITH DIRECT GAS HEATER	550°C
MAX. WATER EVAPORATION (OUTLET TEMP. 70°C)	463 KG/H
MAX. DRYING AIR RATE	2,500 KG/H
DRYING CHAMBER DIAMETER	2,700 MM
POWER SUPPLY, STANDARD, AT 50 Hz	3x400 V
SUCTION FAN	11 kW
MAIN AIR HEATER	STEAM
FEED PUMP	0.75 kW

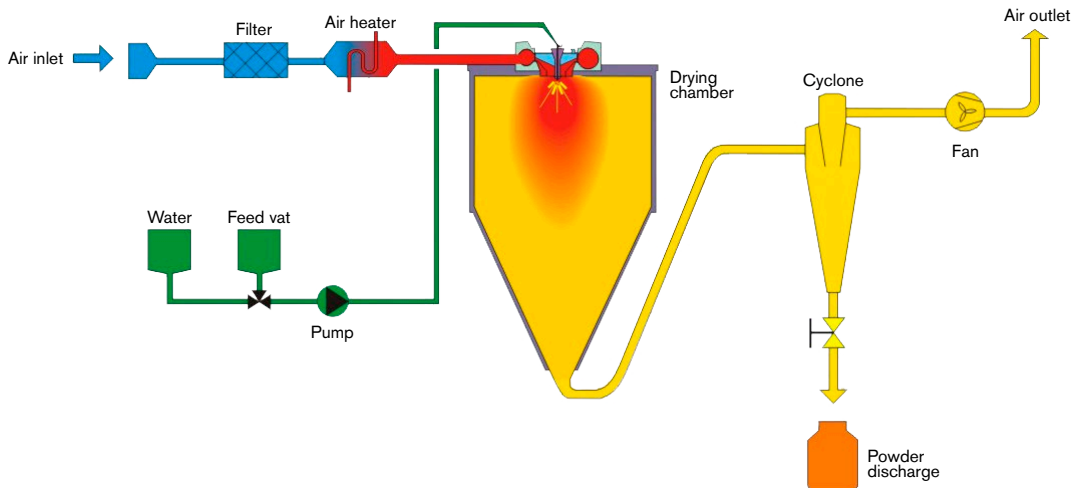
ANHYDRO MASTERSPRAY 2500	
COMPRESSED AIR CONSUMPTION AT 1.4 TO 4.9 BAR (G)	80-250 L/MIN
PRESSURE SHOCK RESISTANCE	1 BAR
MAX. KST. VALUE (WITH RUPTURE DISC)	200 BARxMxS <sup>-1</sup>
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
EXTERNAL SURFACES	AISI 304
FLOOR SPACE LxW	5,000x6,000 MM
HEIGHT	7,500 MM
TOTAL FREE HEIGHT	8,100 MM

\* Approximately.

The MasterSpray 2500 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](http://www.spxflow.com)

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