

Anhydro MasterSpray 2500 Multi-Stage

Small Scale

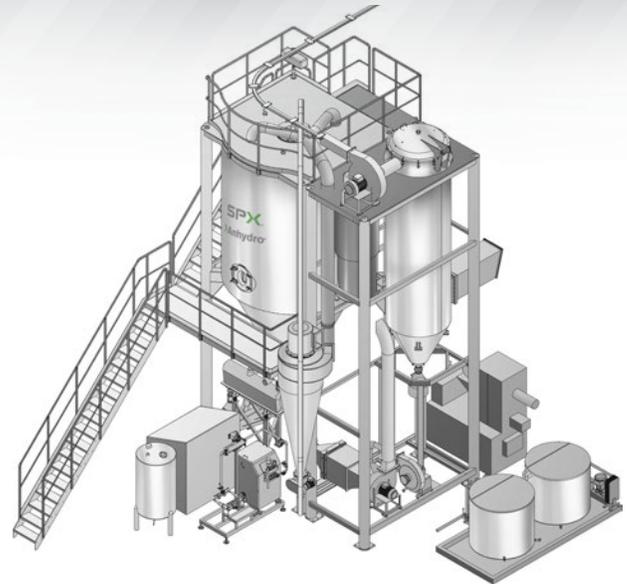
The Anhydro MasterSpray 2500 multi-stage is a small-scale production plant designed to deliver excellent performance and trustworthy drying results.

The Anhydro MasterSpray 2500 multi-stage has been specially designed for industrial small-scale production as well as 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 Anhydro MasterSpray 2500 multi-stage performs fully up-scaleable 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

- High pressure feed pump
- Steam heater
- Feed tank
- Water tank
- Feed pipe
- Air intake filter
- Drying chamber with rupture disc for explosion protection
- Integrated fluid bed with separate air supply system and fines return system under the cyclone
- Cyclone
- Fans and ducts
- Control panel with PLC incl. color touch screen
- Support structure



Optional Equipment for a Basic Plant

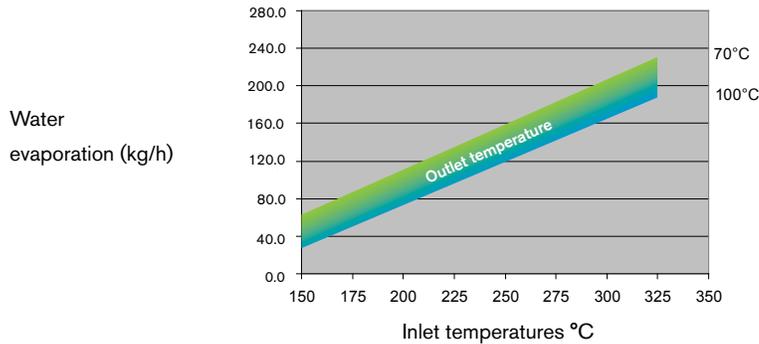
- Two-fluid nozzle atomizer, co-current
- High pressure nozzle atomizer system
- Data-logging
- Direct or indirect gas fired heater
- Electrical booster heater combined with steam heater
- Vent duct
- Explosion suppression system
- Pneumatic hammers
- Hepa filters
- Bag filter
- Air broom
- External fluid bed
- Wet scrubber
- CIP system
- Integrated cleaning system (ICS)
- GMP execution
- Single-stage equipment

ANHYDRO MASTERSPRAY 2500 MULTI-STAGE	
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
AIR HEATER IN INTEGRATED FLUID BED	10 kW
IFB FAN	2.7 kW
PRESSURE FAN	2.2 kW

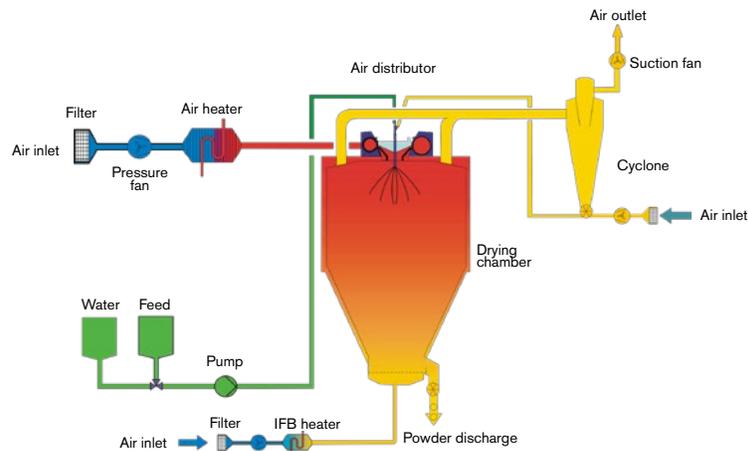
ANHYDRO MASTERSPRAY 2500 MULTI-STAGE	
FINES RETURN BLOWER	2.2 kW
FEED PUMP	2.2 kW
COMPRESSED AIR CONSUMPTION AT 1.4 TO 4.9 BAR (G)	80-250 L/MIN
PRESSURE SHOCK RESISTANCE	1 BAR
MAX. KST. VALUE (WITH RUPTURE DISC)	200 BARxMxS ⁻¹
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
EXTERNAL SURFACES	AISI 304
FLOOR SPACE LxW	5,300x8,000 MM
HEIGHT	9,100 MM
TOTAL FREE HEIGHT	9,800 MM

* Approximately.

The MasterSpray 2500 multi-stage plant complies with regulations and standards according to CE, ATEX and cGMP.



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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