SPXFLOW

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

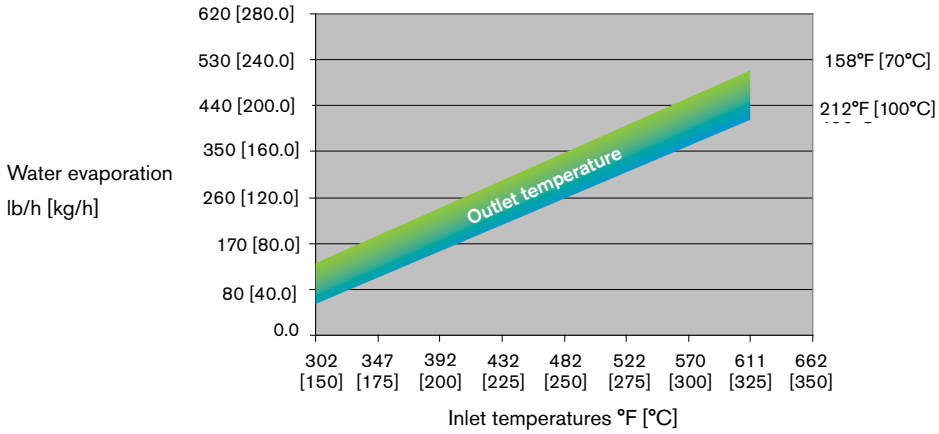
Anhydro®

ANHYDRO MASTERSPRAY 2500	
MAX. INLET AIR TEMP. WITH STEAM HEATER	392°F [200°C]
MAX. INLET AIR TEMP. WITH INDIRECT GAS HEATER	617°F [325°C]
MAX. INLET AIR TEMP. WITH DIRECT GAS HEATER	1,022°F [550°C]
MAX. WATER EVAPORATION (OUTLET TEMP. 70°C)	1,020 LB/H [463 KG/H]
MAX. DRYING AIR RATE	5,512 LB/H [2,500 KG/H]
DRYING CHAMBER DIAMETER	106 IN [2,700 MM]
POWER SUPPLY, STANDARD, AT 60 Hz	3x460 V
SUCTION FAN	15 HP [11 kW]
MAIN AIR HEATER	STEAM
FEED PUMP	1 HP [0.75 kW]

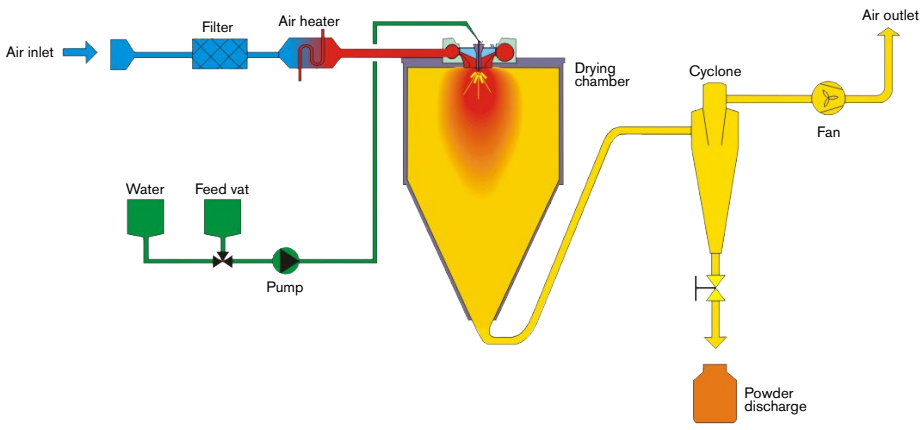
ANHYDRO MASTERSPRAY 2500	
COMPRESSED AIR CONSUMPTION AT 20 TO 70 PSI [1.4 TO 4.9 BAR] (G)	2.8-8.8 CMF [80-250 L/MIN]
PRESSURE SHOCK RESISTANCE	14.5 PSI [1 BAR]
MAX. KST. VALUE (WITH RUPTURE DISC)	200 BARxMxS^{-1}
NOISE EMISSION*	85 dB (A)
PRODUCT CONTACTING PARTS	AISI 316
EXTERNAL SURFACES	AISI 304
FLOOR SPACE LxW	16.4x20 FT [5,000x6,000 MM]
HEIGHT	24.6 FT [7,500 MM]
TOTAL FREE HEIGHT	26.5 FT [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

SPX FLOW 105 CrossPoint Pkwy, Getzville, NY 14068
P: +1 (716)-692-3000 E: leads@spxflowleads.com

ISSUED 05/2019 ANH-112-US