The small scale spray drying plant, Anhydro MasterSpray 1250, 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 1250 is used worldwide by customers in the food, dairy, chemical and pharmaceutical industries.

The design of the Anhydro MasterSpray 1250 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
- 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

**Optional Equipment for a Basic Plant**
- 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
- Steam heater

**Other Version**
- Closed circuit
ANHYDRO MASTERSPRAY 1250 MULTI-STAGE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX. INLET AIR TEMPERATURE</td>
<td>325°C</td>
</tr>
<tr>
<td>MAX. WATER EVAPORATION (OUTLET TEMP. 70°C)</td>
<td>115 KG/H</td>
</tr>
<tr>
<td>MAX. DRYING AIR RATE</td>
<td>1,250 KG/H</td>
</tr>
<tr>
<td>DRYING CHAMBER DIAMETER</td>
<td>2,150 MM</td>
</tr>
<tr>
<td>POWER SUPPLY, STANDARD, AT 50 Hz</td>
<td>3+400 V</td>
</tr>
<tr>
<td>SUCTION FAN</td>
<td>7.5 kW</td>
</tr>
<tr>
<td>MAIN AIR HEATER</td>
<td>108 kW</td>
</tr>
<tr>
<td>FEED PUMP</td>
<td>0.5 kW</td>
</tr>
<tr>
<td>COMPRRESSED AIR CONSUMPTION AT 1.6 TO 5.6 BAR (G)</td>
<td>85-212 L/MIN</td>
</tr>
</tbody>
</table>

* Approximately.

The MasterSpray 1250 plant complies with regulations and standards according to CE and ATEX.

Water evaporation (kg/h)

Outlet temperature

Outlet temperature

70°C

100°C

Inlet temperatures °C

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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