TRIPLE PASS DRUM DRYING TECHNOLOGY

Maguin has a proven experience since 1950 in conception and fabrication of 3 pass dryers for various products of the agro industry.

The 3 pass drum dryer offers following advantages which results in leading technology in the world.

"Inflight drying" in the passes allows to dry various products with different sizes/granulometries/moisture with a security of homogeneous final moisture and quality.

ADVANTAGES

- High thermal efficiency
- Scaling with 1 drum from 1 t to 85 t/h evaporation of water
- Very low maintenance cost
- Compliance with various dust and emission regulations
- Compact layout

FIELDS OF APPLICATION

- Beet pulp
- Grass/alfalfa
- DDGS out of wheat, corn, barley
- Wood particles/sawdust
- Fruit by-products, algae, chicken manure

MAIN FEATURES

The 3 pass drum drying unit which is fully designed and manufactured in our workshops is fitted with:
- 3 pass drum with proven main drive
- Aeraulic system with cyclones, ID fan, recycle
- Optional, Maguin is fabricator of hammer-mills and pelletizers which are fully proven for wood, beet pulp, grass/alfalfa and DDGS
THE TURBO DRYER

The Maguin 3 pass TURBO drying concept aims at combining the best heat recovery and destruction of VOC and smell. This is achieved by:

- integrated reuse of vapor of energy to recover 80% of latent heat, resulting in, for example, net thermal requirement of minimum 130 kcal/kg evaporated water and wet bulb temperature of 98°C.

MAIN FEATURES

The turbo 3 pass drying unit is fitted with well proven equipment:

- The traditional 3 pass drum
- The specifically designed heat exchanger (no product clogging inside tubes)
- Drying in an almost closed loop with offgases vapour at up to 98°C wet bulb
- maximum energy recovery
- Uncondensable vapour is incinerated inside a patented burner resulting in VOC destruction
- Can be combined with a belt drying plant for increasing evaporative capacity

FIELDS OF APPLICATION

- DDGS
- Secondary applications in food processing industry with concern of vapour at over 98°C wet bulb and environmental compliance

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Set 2</th>
<th>Set 5</th>
<th>Set 10</th>
<th>Set 15</th>
<th>Set 30</th>
<th>Set 45</th>
<th>Set 60</th>
<th>Set 85</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation of t/h of water</td>
<td>1-2</td>
<td>2-5</td>
<td>5-10</td>
<td>10-15</td>
<td>15-30</td>
<td>30-45</td>
<td>45-60</td>
</tr>
<tr>
<td>Diameter of 3 Pass Drum</td>
<td>2.5m</td>
<td>3m</td>
<td>3.6m</td>
<td>4.5m</td>
<td>5.6m</td>
<td>7m</td>
<td>8.5m</td>
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<tr>
<td>Length of 3 Pass Drum</td>
<td>5m</td>
<td>8m</td>
<td>13m</td>
<td>12m</td>
<td>16m</td>
<td>17m</td>
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