Kiln Granotherm

DNCB
Kiln Granotherm for top quality products

Maximum hygiene and performance

The kiln Granotherm was developed for the uniform hydrothermal treatment of oats, sorghum and other grains. It ensures the highest level of food safety in the finished products with improved shelf life.

Premium products with uniform quality

Granotherm kiln is ideally suited for the hydrothermal treatment of oats, sorghum and other groats. It effectively inactivates the enzymes of the treated kernels, improving its digestibility and achieving the nutty taste to which consumers are used to. Most important, it prevents finished products from becoming prematurely rancid. The kiln delivers uniformly high product quality at a wide range of throughput capacities depending on your needs. It can be integrated into new plants, as well as in existing production lines.

Meeting the highest food safety standards

The kiln has been designed with the highest standards of hygiene in mind. There are no dead points inside the machine which assures a continuous mass flow of the product being treated. Additionally, all parts in touch with the product are in stainless steel. Finally, every part of the machine is accessible for proper cleaning and maintenance.

Benefits

- Optimal sanitation
- Uniform product quality
- Highest uptime
- Energy saving
Modular Design
Adapted to your needs

Ideal design for the highest uptime

While developing the Granotherm kiln, special attention was paid to designing a sturdy machine. This ensures safe and continuous operation, even under demanding production conditions. Furthermore, the kiln was designed with high cost efficiency in mind. All supporting elements of the machine are isolated to ensure savings in energy.

High versatility

The Granotherm kiln can be configured from two to eight heating- and one to three cooling sections, depending on your individual capacity and throughput needs.

Technical Data

<table>
<thead>
<tr>
<th>Type DNCB</th>
<th>Total height G (mm)</th>
<th>Capacity*</th>
<th>Steam requirement**</th>
<th>Exhaust air required</th>
<th>Service weight kg / h</th>
<th>Approx. weight unpacked kg</th>
<th>rail-packed kg</th>
<th>sea-packed kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>14021</td>
<td>5800</td>
<td>2200</td>
<td>325</td>
<td>80/75</td>
<td>9250</td>
<td>4120/4650/5350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14031</td>
<td>7400</td>
<td>3200</td>
<td>450</td>
<td>100/100</td>
<td>12730</td>
<td>5580/6640/7840</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14042</td>
<td>10500</td>
<td>4300</td>
<td>600</td>
<td>120/130</td>
<td>17900</td>
<td>8040/9080/10450</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14052</td>
<td>12100</td>
<td>5400</td>
<td>750</td>
<td>170/160</td>
<td>21380</td>
<td>9800/11070/12740</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14062</td>
<td>13700</td>
<td>6500</td>
<td>930</td>
<td>180/195</td>
<td>24880</td>
<td>11590/13100/15070</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14073</td>
<td>16800</td>
<td>7600</td>
<td>1030</td>
<td>230/230</td>
<td>30050</td>
<td>13840/15640/17990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14083</td>
<td>18400</td>
<td>8600</td>
<td>1170</td>
<td>265/260</td>
<td>33550</td>
<td>15650/17880/20340</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Capacity rating is based on raw oats and oat kernels with the following characteristic feature: temperature 90°C – 100°C when entering the kiln, moisture content 12% when entering the steam conditioner.
** Steam and air data apply to the kiln only, i.e. without live steam for the steam conditioner mounted ahead, based on approx. 6% moisture extraction from raw oat and 5% from oat kernel; Saturated steam: 7 bar, 165°C, adjustable; product temperature: max. 115°C.

Steam conditioner MBDA

Heating sections (H)

Cooling section (C)

Outlet