CLEANER DELTA 159.1

GENERAL
Brand: Cimbria
Designation: Air-screen cleaner
Model: DELTA 159.1
Use: Industry
Application: Pre cleaning or industrial cleaning of cereal grains, pulses, and oilseeds intended for seed.

OPERATING SPEED
Shaker feeder (shaft): 100–500 rpm
Screens (shaft): 280–285 rpm

ELECTRICAL RATINGS
Motor, shaker feeder: 1.5 kW
Motor, screens: 3 kW
Motor, pre aspiration: 3 kW
Motor, post aspiration: 4 kW

AIR SUPPLY AND EXTRACTION
Aspiration volume: 3 600 m³/h

DYNAMIC LOADS
Horizontal load “Ph”: ±1 420 N @ 4.6–4.8 Hz
Vertical load “Pv1” (inlet end): ±7 575 N @ 4.6–4.8 Hz
Vertical load “Pv2” (outlet end): ±7 575 N @ 4.6–4.8 Hz
(Note: Dynamic loads are for normal operation.)

NOISE
Sound pressure level, empty: 77.6 dB(A)

COMPLIANCE
EU machinery legislation: Yes
EU ATEX legislation: No
EU food contact legislation: Option*
* Consult your Cimbria dealer for full details.

ENVIRONMENTAL CONDITIONS
Environment: Indoors
Temperature: From -20°C to +40°C
Altitude: Up to 800 m

SURFACE PROTECTION
Frame and enclosure: Paint (corrosivity category C2; low durability)

LIFETIME
Intended life limit: 20 years

PERFORMANCE

<table>
<thead>
<tr>
<th>Material</th>
<th>Bulk density t/m³</th>
<th>Moisture content %</th>
<th>Capacity t/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>0.68</td>
<td>20 (15)</td>
<td>200 (160)</td>
</tr>
<tr>
<td>Maize</td>
<td>0.71</td>
<td>20 (15)</td>
<td>180–200 (150)</td>
</tr>
<tr>
<td>Malt</td>
<td>0.52</td>
<td>20 (15)</td>
<td>100 (90)</td>
</tr>
<tr>
<td>Oats</td>
<td>0.51</td>
<td>20 (15)</td>
<td>100 (30)</td>
</tr>
<tr>
<td>Peas, common</td>
<td>0.7</td>
<td>20 (15)</td>
<td>180–200 (80–180)</td>
</tr>
<tr>
<td>Rapeseed</td>
<td>0.74</td>
<td>20 (7–9)</td>
<td>180–200 (80)</td>
</tr>
<tr>
<td>Rice, white</td>
<td>0.75</td>
<td>20 (15)</td>
<td>180–200 (45)</td>
</tr>
<tr>
<td>Rye</td>
<td>0.89</td>
<td>20 (15)</td>
<td>200 (160)</td>
</tr>
<tr>
<td>Sorghum</td>
<td>0.64</td>
<td>20 (15)</td>
<td>200 (160)</td>
</tr>
<tr>
<td>Soybeans</td>
<td>0.72</td>
<td>20 (15)</td>
<td>180–200 (80–180)</td>
</tr>
<tr>
<td>Wheat</td>
<td>0.76</td>
<td>20/15 (15)</td>
<td>200/250 (160)</td>
</tr>
</tbody>
</table>

Legend: Values in parentheses are for industrial cleaning. Other values are for pre cleaning.
Note: Capacities may vary for different impurity and moisture contents.

DIMENSIONS
Screen area, total: 24 m²
Screen size: 1 250×800 mm (24 pcs)
Overall length: 4 424 mm
Overall height: 5 831 mm
Overall width: 2 557 mm

WEIGHT
Weight, empty: 9 000 kg
Weight, operating (wheat): 10 680 kg
Weight, choked (wheat): 18 000 kg