Waste Water Treatment

WASTEMASTER® TSB 1-2-3
Combined Pre-Treatment Plant

Description ▼

The TSB Combined Mechanical Effluent Pre-treatment Plant carries out up to three different processes: de-watering and compaction of screened solid waste, separation of sand and removal of floating greasy matter.

Function ▼

The sewage from cesspool tanks / interceptors or industrial plants collected by special tankers, has to be pre-treated before being introduced into any kind of purification system. This treatment removes solids, sand and greasy matter that are present in the sewage to avoid overloading the system.

Application ▼

Pre-treatment plant for municipal or industrial waste water.

Benefits ▼

✓ Shaftless spirals: no jamming or locking even with fibrous products;
✓ Volume reduction of solids of up to 40%;
✓ Absence of inside bearings;
✓ Low r.p.m.;
✓ Possible discharge into plastic bags;
✓ Special long-life screw brushes;
✓ Compact design;
✓ Perfect for over ground installation especially where space is limited; NO CIVIL WORKS REQUIRED;
✓ Low investment and maintenance costs;
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Technical Features / Performance

- Flow rates up to 300 litres per second
- Inlet screen:
  - Sand separation with TSB-2/3: 90% particle size ≥ 200μm
  - Grease removal with TSB-3
  - Up to 40% volume reduction of solids

Overall Dimensions

<table>
<thead>
<tr>
<th>Screen Type</th>
<th>Wedge Wire Screen (mm)</th>
<th>Drilled Screens (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5</td>
<td>1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Dimensions (mm)</th>
<th>I/s</th>
<th>K1 (kW)</th>
<th>K2 (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSB 1/15</td>
<td>3,870 800 2,380 2,830 219 785 1,245 1,600 680</td>
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<td>1.1</td>
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<tr>
<td>TSB 1/30</td>
<td>4,780 980 2,950 3,700 323 1,140 1,610 2,100 986</td>
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<td>1.5</td>
<td>0.55</td>
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</tbody>
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The manufacturer reserves the right to make technical and manufacturing modifications without prior notice.

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<th>TYPE</th>
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<th>K1 (kW)</th>
<th>K2 (kW)</th>
<th>K3 (kW)</th>
<th>K4 (kW)</th>
<th>K5 (kW)</th>
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<tr>
<td>TSB 2/15</td>
<td>8,200 6,095 3,875 2,500 1,355 1,350 3,400 720</td>
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<tr>
<td>TSB 3/15</td>
<td>8,200 6,095 3,875 2,500 1,355 1,350 3,400 1,125</td>
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<td>7,907 7,920 4,450 3,570 2,200 2,200 4,790 850</td>
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This datasheet does not show the complete range but only the models most suitable for the application.