Waste Water Treatment
SEPCOM® Solids-Liquid Separators

Description ▼
SEPCOM® is a machine which consists of a feed device (feeding hopper or compensator tank depending on whether the material is fed mechanically or pumped), a separator casing including a screw conveyor and a cylindrical screen, a compacted solid material outlet module and one or two separated liquid outlets. A drive unit and a support frame complete the machine.

Function ▼
SEPCOM® is a solids-liquid separating machine based on screw conveyor technology. Performing separation by both gravity and mechanical compression, the machine is designed to separate the liquid phase from the solid phase of a wide range of materials such as sludge, sewage, manure, solids-liquid mixtures, vegetables, processing waste and others, in which the percentage of liquid inside the solids may be considerably different. The separated solid phase and liquid phase can both be handled easily and cheaply.

Application ▼
The machine receives the material to be separated and conveys it using the screw conveyor inside the separator casing. The liquid phase is separated through the mesh of the cylindrical screen which encloses the screw conveyor. Along its path towards the exit, the material gradually separates the solids from the less linked liquid and then the more strongly linked liquid until a plug of almost dry material has formed in front of the outlet. The plug is continuously expelled through an elastic outlet diaphragm. The machine will automatically find its balance of squeezing force depending on the material handled. SEPCOM® can be used for a wide range of materials without the need of any manual adjustments.

Benefits ▼
- Compliant with a wide range of materials with different throughput rates;
- Optimized feeding thanks to compensator tank;
- Outlet diaphragm for solids manufactured from anti-wear engineering polymer: cost-saving in spare parts;
- Self-balanced pressure at solids outlet: steady and safe operation;
- Self-cleaning screen: long life and high performance in time;
- Modular screw manufactured from anti-wear SINT™ engineering polymer: simple operation and cost-saving in spare parts;
- Continuous duty;
- Quick return on investment.
Waste Water Treatment
SEPCOM® Solids-Liquid Separators

Technical Features / Performance & Overall Dimensions

**MINI VERSION 015**

**STANDARD VERSION 045**

**EXTENDED VERSION 065**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Power Consumption (kW)</th>
<th>Weight (kg)</th>
<th>Max. Capacity (m³/h)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEPCOM® 015</td>
<td>650</td>
<td>1,200</td>
<td>1,800</td>
<td>2.2</td>
<td>120</td>
<td>15</td>
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<tr>
<td>SEPCOM® 045</td>
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<td>1,950</td>
<td>2,767</td>
<td>4.0</td>
<td>480</td>
<td>45</td>
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<tr>
<td>SEPCOM® 065</td>
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<td>2,250</td>
<td>2,767</td>
<td>5.5</td>
<td>570</td>
<td>65</td>
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</tbody>
</table>

*Capacity may vary depending on the type of input material, working conditions, and maintenance.

This datasheet does not show the complete range but only the models most suitable for the application.
Waste Water Treatment
SEPCOM® VERTICAL Solids-Liquid Separators for sewage sludge digestate

Description
SEPCOM® VERTICAL is a machine which consists of a feed device (feeding hopper or a compensator tank depending on whether the material is fed mechanically or pumped), a separator casing including two vertical screws manufactured from SINT™ engineering polymer, two cylindrical screens, a self-adjusting counter-pressure diaphragm outlet, and one or two separated liquid outlets. A drive unit and a support frame complete the machine.

Function
SEPCOM® VERTICAL is a solids-liquid separating machine including two vertical screws manufactured from SINT™ engineering polymer that ensure there is no clogging and no loss of the solids plug during operation. Performing separation by both gravity and mechanical compression, the machine is designed to separate the liquid phase from the solid phase of a wide range of materials such as sludge, sewage, manure, solids-liquid mixtures, vegetables, processing waste and others, in which the percentage of liquid inside the solids may be considerably different. The separated solid phase and liquid phase can both be handled easily and cheaply.

Application
The machine receives the material to be separated and conveys it using two vertical screws inside the separator casing. The liquid phase is separated through the mesh of both cylindrical screens which enclose the screw conveyors. Along its path towards the exit, the solid material gradually separates first the less linked liquid and then the more strongly linked liquid until a plug of almost dry material has formed in front of the outlet. This plug is continuously expelled through an elastic outlet diaphragm. The machine will automatically find its balance of squeezing force depending on the material handled. SEPCOM® VERTICAL can be used for a wide range of materials without the need of any manual adjustments.

Benefits
✓ High performance wear-resistant screens;
✓ Significant overall management cost reduction of solids-liquid separation of digestate from anaerobic digester;
✓ Affordable spares;
✓ No leakage of unprocessed digestate;
✓ Significantly reduced assembly and maintenance time.
Waste Water Treatment
SEPCOM® VERTICAL Solids-Liquid Separators
for sewage sludge digestate

Technical Features / Performance & Overall Dimensions

- Diaphragm outlet: self-adjusting counter-pressure (patented in various countries)
- Vertical screws manufactured from engineering polymer SINT™ ensure no clogging and no solids plug loss
- Vertical access to screen for easy maintenance
- Galvanized steel frame
- Reduced overall dimensions
- Maintenance-friendly drive unit position
- Front chute for comfortable collection of separated solids

Overall Dimensions

<table>
<thead>
<tr>
<th>RANGE</th>
<th>Diameter</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Power</th>
<th>Weight</th>
<th>Max. Throughput m³/h *</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEPCOM 150 V22B</td>
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<td>1,140</td>
<td>945</td>
<td>2,430</td>
<td>5.5</td>
<td>500</td>
<td>20</td>
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</tbody>
</table>

* Throughput rate depends on type of material, operating conditions and maintenance.

This datasheet does not show the complete range but only the models most suitable for the application.