WASTEWATER TECHNOLOGY
INDUSTRIAL WASHING
EFFICIENT AND ECONOMICAL WASTEWATER TREATMENT

The washing of systems, machinery, components, vehicles, means of transport and tanks commercially or on an industrial scale generates contaminated wastewater that must be pre-treated before it can be discharged into the sewage system. The washing water will contain particulate, emulsified and dissolved substances in the form of dirt, paint residues, oils, grease and heavy metals, as well as residues from cleaning agents.

Using acidic and alkaline cleaning agents or corrosives in turn produces acidic or alkaline wastewater. Cleaning agents containing phosphate may lead to phosphate limits being exceeded. Suitable process technology is required to treat wastewater so that it can be discharged in compliance with legal requirements. It makes economic and ecological sense for treatment to occur close to the source.

WASTEWATER TREATMENT

Wastewater pre-treated using a sludge trap and oil separator is conveyed to buffer tanks via a pumping station and from there to the actual physico-chemical treatment stage. Various systems are recommended depending on the quantity of wastewater, installation option and wastewater contamination. For small quantities of wastewater, flocculation/precipitation with a powder reaction separating agent is recommended, followed by filtration using a bag filter or belt filter.

Combining this process with additional liquid splitting agents, neutralization agents or antiplex agents means even heavily contaminated wastewater can be treated safely. For wastewater with low to medium levels of contamination and exceeding 5000 litres per day, it makes sense to deploy flotation plants. These plants work with a physico-chemical flocculation/precipitation process with liquid treatment agents. Residues are separated using dissolved-air flotation.
## Split-O-Mat® CSA series

- **Use**: Wash station, low and medium levels of contamination
- **Quantity of wastewater**: 0.5 – 3 m³ / d
- **Process**: Precipitation/flocculation/filtration
- **Drainage**: Bag filter
- **Sizes**: 2

## Split-O-Mat® SOM (Blue Line) series

- **Use**: Wash station, low and medium levels of contamination
- **Quantity of wastewater**: 1 – 8 m³ / d
- **Process**: Precipitation/flocculation/filtration
- **Drainage**: Belt filter
- **Sizes**: 2

## Split-O-Mat® SOM (Grey Line) series

- **Use**: Industrial washing; medium and high levels of contamination, as well as heavy metal pollutants
- **Quantity of wastewater**: 3 – 10 m³ / d
- **Process**: Precipitation/flocculation/filtration
- **Drainage**: Belt filter
- **Sizes**: 2

## Split-O-Mat® SOM (chamber filter press) series

- **Use**: Highly contaminated, industrial washing fluids containing heavy metals + paint
- **Quantity of wastewater**: 10 – 40 m³ / d
- **Process**: Precipitation/flocculation/filtration
- **Drainage**: Chamber filter press
- **Sizes**: 4

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*The optimal quantity of wastewater in terms of economy depends greatly on the specific type/level of contamination and is assessed by our experts on an individual basis.*
**Lugan® (Blue Line) series**

- **Use**: Wash station, low and medium levels of contamination
- **Quantity of wastewater**: 5 - 50 m³ / d
- **Process**: Precipitation/flocculation/dissolved-air flotation
- **Drainage**: Main stream
- **Sizes**: 2

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**Lugan® (Grey Line) series**

- **Use**: Wash station, medium and high levels of contamination
- **Quantity of wastewater**: 15 - 150 m³ / d
- **Process**: Precipitation/flocculation/dissolved-air flotation
- **Drainage**: Bypass
- **Sizes**: 3

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**ACCESSORIES**

**BAF EC belt filter for sludge drainage**

**EC polymer batching and dosing station**

- **Application**: Fully automatic processing of ready-to-use flocculating agents
- **Output**: 150/1000/2000 l/h

**EC dosing station for 30/60 l container**

- **Application**: Dosing liquid splitting agents

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*The optimal quantity of wastewater in terms of economy depends greatly on the specific type/level of contamination and is assessed by our experts on an individual basis.*
**Separator for below-ground installation of Awatec system**

<table>
<thead>
<tr>
<th>Use</th>
<th>Pre-treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity of wastewater</td>
<td>3 - 65 l/s</td>
</tr>
<tr>
<td>Accessory</td>
<td>Coalescent filter</td>
</tr>
<tr>
<td>Treatment</td>
<td>Oil separation using simple gravity</td>
</tr>
<tr>
<td>Diameter</td>
<td>1000-3000 mm</td>
</tr>
</tbody>
</table>

**Separator for building erection of Awatec system**

<table>
<thead>
<tr>
<th>Use</th>
<th>Pre-treatment</th>
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</thead>
<tbody>
<tr>
<td>Quantity of wastewater</td>
<td>1.5 - 100 l/s</td>
</tr>
<tr>
<td>Accessory</td>
<td>Coalescent filter</td>
</tr>
<tr>
<td>Treatment</td>
<td>Oil separation using simple gravity</td>
</tr>
</tbody>
</table>

**Plant room modules**

The wastewater pre-treatment plant is fully preassembled and installed in a container.

With our plant room modules, you do not require a building. On-site erection is fast. Modules can be moved easily to change the location.

Plant room modules are available in various designs and different ISO standard dimensions.

<table>
<thead>
<tr>
<th>Dimensions</th>
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<tbody>
<tr>
<td>Length</td>
<td>6 - 12 m</td>
</tr>
<tr>
<td>Width</td>
<td>2.8 - 3.0 m</td>
</tr>
<tr>
<td>Height</td>
<td>2.8 - 3.0 m</td>
</tr>
</tbody>
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WE PROVIDE A COMPREHENSIVE RANGE OF SERVICES

Consumables

Customer service

Advice and lab service

Training

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