compact - flexible - reliable

Split-O-Mat® and Lugan®
Wastewater treatment plants
Versatile applications

Commercial and industrial cleansing processes generate wastewater that may only be pre-treated once before being 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.

EnviroChemie compact plants ensure your wastewater does not exceed specified limits.

Our prefabricated units are supplied as plug-and-play modules so that they can be quickly connected and put into operation.

Optimised water chemicals for your plant produced by EnviroChemie

EnviroChemie quality assurance

Compact Wastewater treatment...

...with our robust compact plants

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Output*</th>
<th>Process</th>
<th>Air saturation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split-O-Mat® SOM 300 – 1,500</td>
<td>Emulsion splitting, e.g. in washing areas, heavy metal removal</td>
<td>300 - 1500 l/h</td>
<td>Automated batch operation precipitation/flocculation/filtration</td>
<td>Belt filter or chamber filter press</td>
</tr>
<tr>
<td>Split-O-Mat® SOM 4,200 with optional chamber filter press</td>
<td>wastewater with low contamination, e.g. from train washing facilities</td>
<td>2 - 3 m³/h</td>
<td>Automated continuous operation precipitation/flocculation/filtration</td>
<td>Chamber filter press</td>
</tr>
<tr>
<td>Lugan® 1,500 – 5,000</td>
<td>Wash station, low and medium levels of contamination</td>
<td>1 - 5 m³/h</td>
<td>Precipitation, flocculation, dissolved-air flotation</td>
<td>main stream</td>
</tr>
<tr>
<td>Lugan® 10,000 – 20,000</td>
<td>Wash station, medium to high levels of contamination</td>
<td>10 - 20 m³/h</td>
<td>Precipitation, flocculation, dissolved-air flotation</td>
<td>bypass</td>
</tr>
<tr>
<td>Split-O-Mat® NOM</td>
<td>for a wide range of applications in industry and trade</td>
<td>1 - 60 m³/h</td>
<td>Automatic continuous treatment system to neutralise pH values</td>
<td></td>
</tr>
</tbody>
</table>

* The optimum treatment of wastewater in terms of economy is heavily dependent on the specific type/level of contamination and is assessed by our experts on an individual basis.
**System solutions for commercial kitchens**

**Split-O-Mat® QMF**
- Application: Service life extension, recycling degreasing baths
- Output*: 100 - 500 l/h
- Process: microfiltration

**Split-O-Mat® BSB**
- Application: biological post-treatment
- Output: 12 – 50 kg COD/day
- 1 – 2 m³/h
- Process: aerobic treatment

**Split-O-Mat® AKO**
- Application: reducing AOX
- Output*: 500 - 5000 l/h
- Process: activated carbon adsorption

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**EC polymer batching and dosing station**
- 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, acids, alkalis and flocculating agents

**BAF EC belt filter for sludge drainage**
- Application:
  - filtration of wastewater
  - dewatering thin sludge/flotate

**Separator for below-ground installation**
- Application:
  - removal of sediments/ floating substances

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- Process: activated carbon adsorption

**System solutions for commercial kitchens**

**Split-O-Mat® LIP**
- Application: further treatment kitchen wastewater containing grease, optimisation of existing grease separator plants
- Output: 2 – 25 l/s
- Process: chemical-physical emulsion splitting

**Split-O-Mat® FAT**
- Application: treatment of kitchen wastewater containing grease
- Output: 1 – 10 m³/h
- Process: biological wastewater treatment

**EnviModul (plant room)**
- The compact plant is supplied completely prefabricated as an EnviModul.
- Benefits:
  - no building required
  - quick set-up on site
  - relocation possible.
- Dimensions: Length 3 – 13 m
- Width: 2.8 – 3.0 m
- Height: 2.8 – 3.0 m

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*...and our unique supplies*
Application example

Wash station for cleaning and servicing vehicles

We provide a consultancy service to help you select the most suitable treatment process and supply the appropriate plant technology.

With more than 40 years of experience in industrial wastewater treatment, we understand where the challenges lie.

Our consultancy service extends from plant technology to the selection of wastewater treatment equipment. Our applications engineers will set up your plant for optimum operation which we can verify through testing in our in-house laboratory and technical centre. You will receive customised equipment from our own manufacturing site.

Alternatively, we can support you with your own plant. We are happy to provide you with an offer tailored to your requirements.

Wastewater from the wash station, which 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, batch treatment with a powder reaction separating agent is recommended, followed by filtration using a 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 5,000 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.

Optimum plant operation – economical and efficient
Your Partner.