

Technology for Water



ENVIROCHEMIE



compact- flexible- reliable

Split-O-Mat[®] and Lugan[®]
Wastewater treatment plant

Compact Wastewater treatment

Versatile application

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



EnviroChemie quality assurance

...with our **robust compact plants**

Split-O-Mat® SOM 300 – 1.500

Application:	Emulsion splitting, e.g. in washing areas, heavy metal removal
Output:	300- 1,500 l per batch
Process:	Automated batch operation precipitation/flocculation/filtration
Dewatering:	Belt filter or chamber filter press



Split-O-Mat® SOM 1.500

Split-O-Mat® SOM 4.200 with optional chamber filter press

Application:	wastewater with low contamination, e.g. from train washing facilities
Output*:	2- 3 m³/h
Process:	Automated continuous operation precipitation/flocculation/filtration
Dewatering:	Chamber filter press



Split-O-Mat® SOM 4.200

Lugan® 1.500 – 5.000

Application:	Wash station, low and medium levels of contamination
Output*:	1- 5 m³/h
Process:	Precipitation/flocculation/ dissolved-air flotation
Air saturation:	main stream



Lugan® 3.000

Lugan® 10.000 – 20.000

Application:	Wash station, medium to high levels of contamination
Output*:	10- 20 m³/h
Process:	Precipitation/flocculation/ dissolved-air flotation
Air saturation:	bypass



Lugan® 10.000

Split-O-Mat® NOM

Application:	for a wide range of applications in industry and trade
Output*:	1- 60 m³/h
Process:	Design variants, automatic batch and/or continuous flow system for pH value neutralization



Split-O-Mat® NOM D

* 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.

Split-O-Mat® QMF

Application: Service life extension,
recycling degreasing baths

Output*: 100- 500 l/h

Process: microfiltration



Split-O-Mat® QMF 100

Split-O-Mat® BSB

Application: biological post-treatment

Output: 12 – 50 kg COD/day
1 – 2 m³/h

Process: aerobic treatment



Split-O-Mat® BSB

Split-O-Mat® AKO

Application: reducing AOX

Output*: 500- 5,000 l/h

Process: activated carbon adsorption



Split-O-Mat® AKO

* 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® 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® LIP

Split-O-Mat® FAT

Application: treatment of kitchen wastewater
containing grease

Output: 1 – 10 m³/h

Process: biological wastewater treatment



Split-O-Mat® FAT

...and our unique accessories

EC polymer batching and dosing station

Fully automatic processing of
ready-to-use flocculating agents
Output: 150/1,000/2,000 l/h



DOS 150P

EC dosing station for 30/60 l container

Application:
dosing liquid splitting agents, acids, alkalis and
flocculating agents



Dosing station for 30/60 l container

BAF EC belt filter for sludge drainage

Application:
• filtration of wastewater
• dewatering thin sludge/flotate



BAF 61N

Separator for be- low-ground installation

Application:
removal of sediments/floating substances



Oil separator for below-ground installation made
from reinforced concrete

Separator for setting up in buildings made from stainless steel

Application:
removal of sediments/floating substances



Split-O-Mat® HAB

EnviModul (technical 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

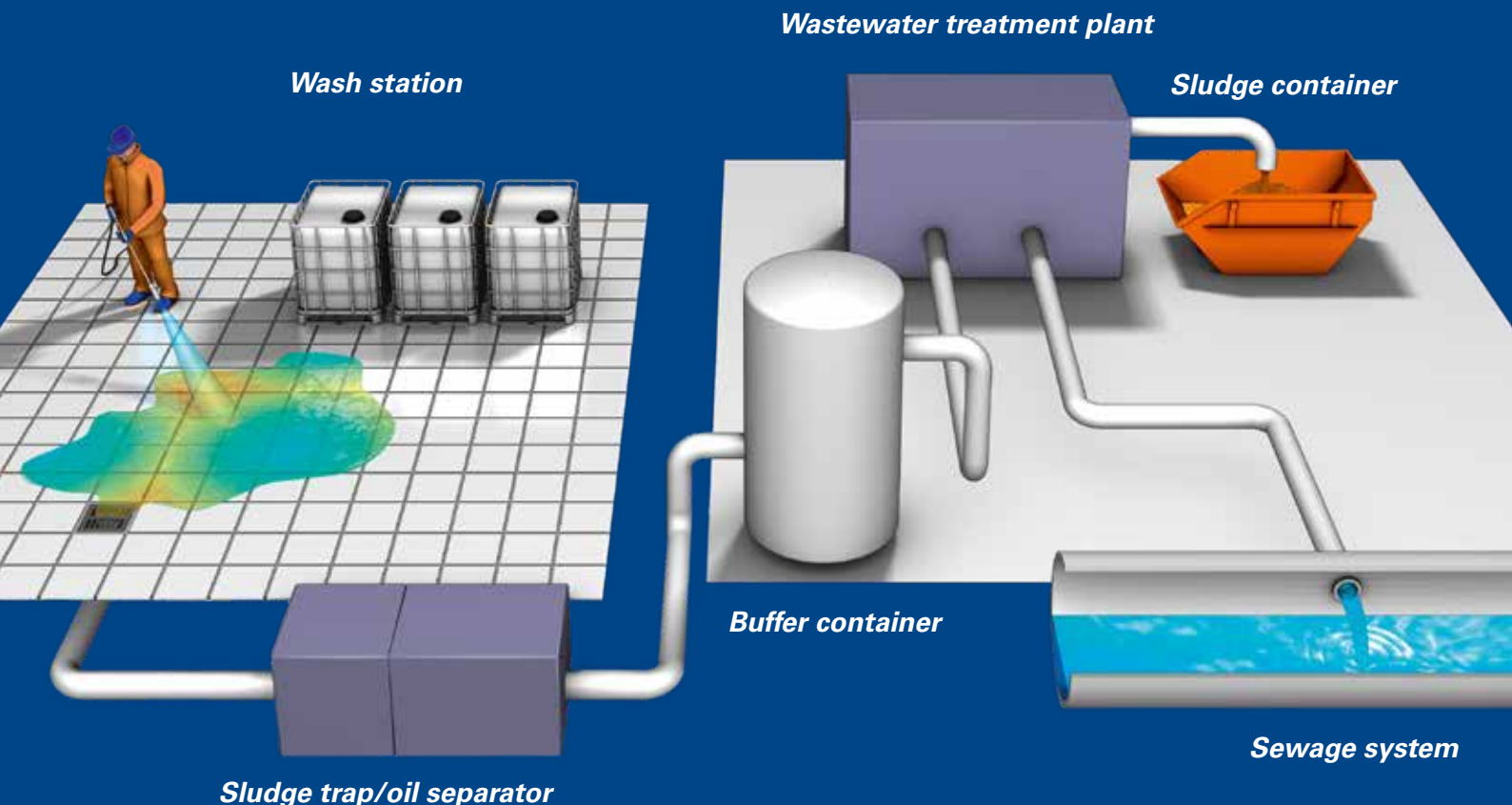
Height: 2.8 – 3.0 m



EnviModul Split-O-Mat® SOM 4.200

Application example

Wash station for cleaning and servicing vehicles



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***

We provide a consultancy service to help you select the most suitable treatment process and supply the appropriate plant technology. With more than 50 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 for your plant.

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





More information

EnviroChemie GmbH
In den Leppsteinswiesen 9
64380 Rossdorf
Phone: +49 6154 6998 0
Fax: +49 6154 6998 11
info@envirochemie.com
www.envirochemie.com

Any questions?

Get in touch.



engineering@envirochemie.com
Phone: +49 6154 6998 0



service@envirochemie.com
Phone: +49 6154 6998 100