Technology for Water

ENVIROCHEMIE

WASTEWATER TECHNOLOGY
INDUSTRIAL WASHING

*A dynamic partnership – **ENVIROWORLD***

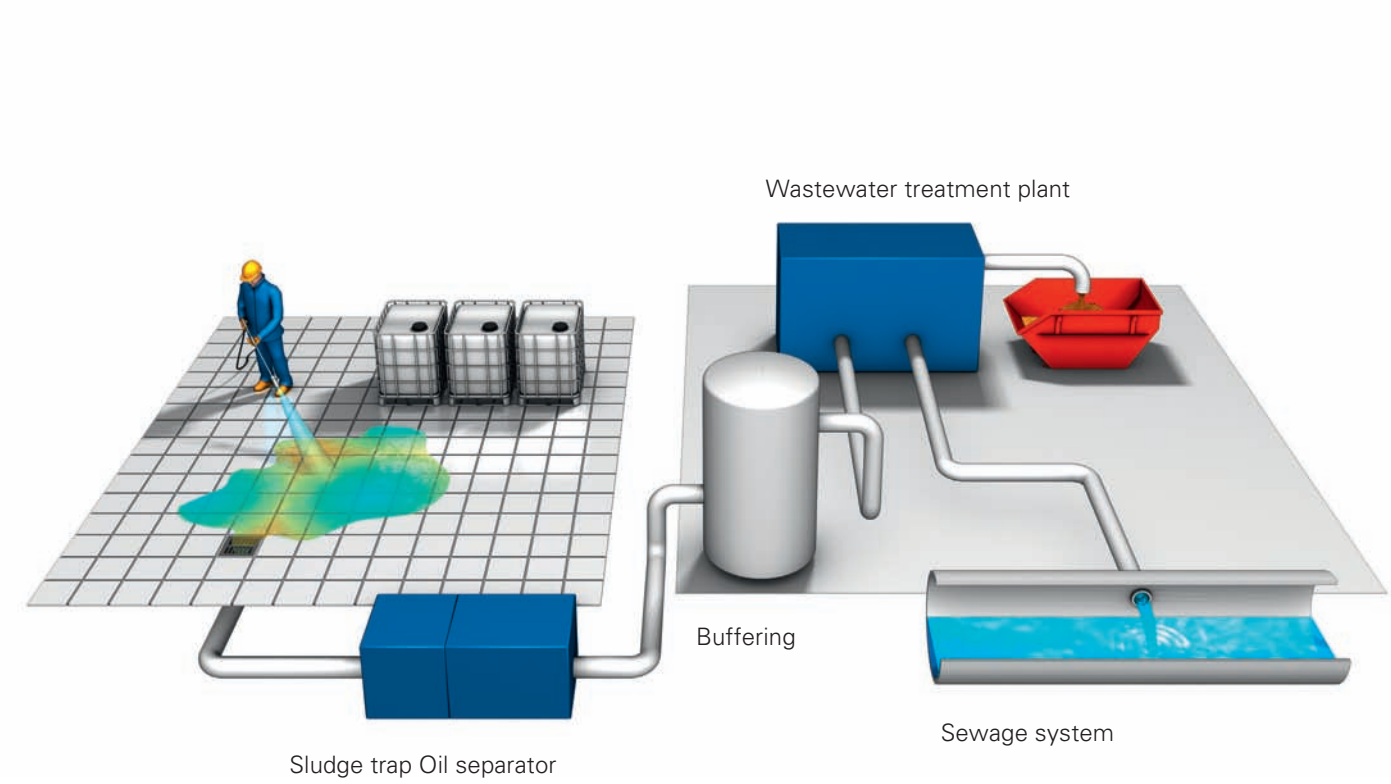
Made in Germany

Swiss made

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.

THE RIGHT PLANT FOR YOUR REQUIREMENTS

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

Wastewater contamination

low medium high

Type CSA 180

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

Wastewater contamination

low medium high

Type SOM 1000

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

Wastewater contamination

low medium high

Type SOM 1500

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

Wastewater contamination

low medium high

Type SOM 4200

Type SOM 3200

*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

Wastewater contamination

low medium high

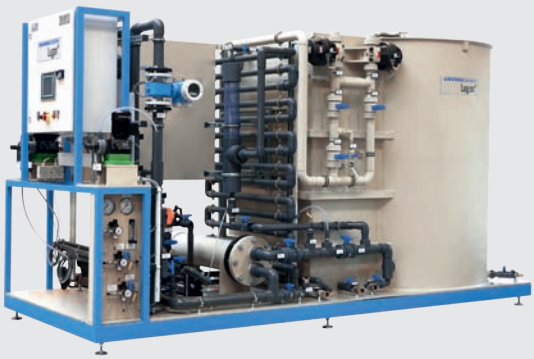
Type Lugan 1.500

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

Wastewater contamination

low medium high



Type Lugan 10.000

ACCESSORIES

BAF EC belt filter for sludge drainage

BAF 61

EC polymer batching and dosing station

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

DOS P 150

EC dosing station for 30/60 l container

Application:	Dosing liquid splitting agents

Dosing station for 30/60 l container

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MECHANICAL SEPARATOR TECHNOLOGY

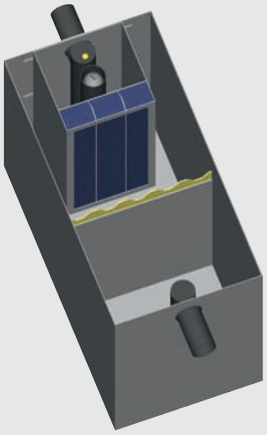
Separator for below-ground installation of Awatec system

Use	Pre-treatment
Quantity of wastewater	3 - 65 l/s
Accessory	Coalescent filter
Treatment	Oil separation using simple gravity
Diameter	1000-3000 mm

Awatec System

Separator for building erection of Awatec system

Use	Pre-treatment
Quantity of wastewater	1,5 - 100 l/s
Accessory	Coalescent filter
Treatment	Oil separation using simple gravity



Awatec System

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.

Dimensions	Length 6 -12 m Width 2.8 - 3.0 m Height 2.8 - 3.0 m

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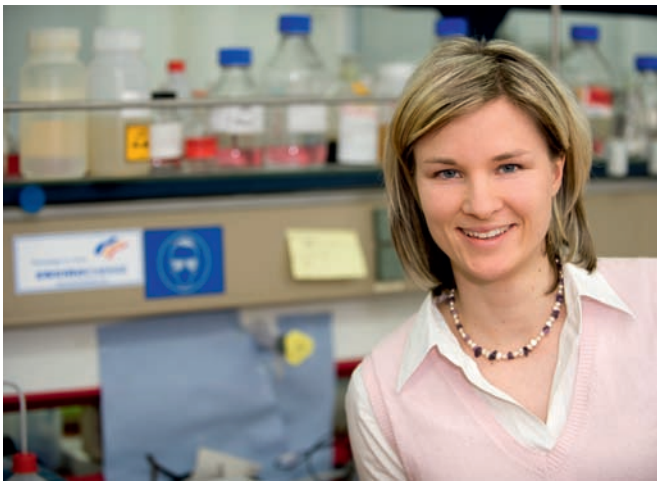
WE PROVIDE A COMPREHENSIVE RANGE OF SERVICES

Consumables


Customer service


Advice and lab service


Training

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