



DEDICATED EQUIPMENT

Water treatment

#REUSE

Filtration, de-oiling, treatment & recycling of fluids

Acid regeneration plants

Electrodialysis and electrolysis systems

Ultrafiltration skid

Ultra-violet antibacterial treatment

Ozone oxidation & disinfection

Customised Designs

Filtration consumables



DEDICATED EQUIPMENT

Water treatment

COMPANY



For over 60 years, in the heart of the French Alps, we have been developing filtration, transfer and fluid treatment solutions for industry. Our expertise has enabled us to develop innovative solutions for the treatment and recycling of industrial water #REUSE.

LABORATORY



Our laboratory makes its measurement resources available and provides scientific support for your wastewater treatment needs. We determine the characteristics of the fluid and the concentrations of the various pollutant loads: pH, suspended solids (particles), COD (chemical oxygen demand), metals (iron, copper, zinc, lead, etc.), conductivity, bacteriological analysis, TOC (total organic carbon), etc. Our experts carry out treatment experiments in the laboratory to determine the effectiveness of SIEBEC technologies.

DESIGN OFFICE



Our design office takes over to design the complete treatment solution that meets your installation, automation and use constraints (REUSE or discharge in compliance with legislation)...

We offer you tailored solutions



- Treatment of industrial effluents
- Treatment of chemical effluents
- Treatment of laundry water
- Treatment of careening water
- Treatment of food and drink industry effluent
- Treatment of cosmetic and pharmaceutical effluents
- Treatment of run-off water from industrial sites
- Treatment of vehicle wash water

Stations & solutions

MINIPURE™ & OILMAX™	Liquid filtration and de-oiling	4
CENTRIPURE™	High-capacity liquid filtration	5
EASYPURE™	Industrial effluent treatment	6-7
ACIDPURE™	Acid regeneration stations	8
ELECTRODIALYSE	Electrodialysis treatment system	9
QUALI-UF™	Ultrafiltration skid QUALI FILTRES <small>SIEBEC Group</small>	9
NANOREACTOR™	Ultraviolet antibacterial treatment	10
OZONATION	Ozone oxidation and disinfection	10
ELECTRUM™	Electrolysis treatment system	11
SPP™ STEP	Programmable dosing pump	11

Customised Designs

CUSTOM	Custom stations, helicopter skids, containerised skids	12-14
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Filtration consumables

MEDIAS	Filter bags, cartridges, filter press cloths, activated carbons, microfibres, ion exchange resins	15
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MINIPURE™

Filtration & de-oiling of liquids

This filtration skid offers a simple, self-contained solution for treating particulate and oily pollution in your fluids.



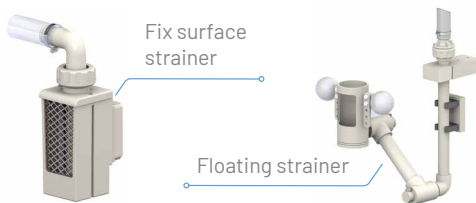
Complete filtration

Removes solid particles (coarse and fine) and supernatant or emulsified whole oils.



Self-contained

A seal or magnetic drive pump transfers the liquid.



Boxed version of the MINIPURE™



Options

SAFTECH : dry run protection

- Mobile cart or skid
- Carterised station
- Fixed surface skimmer for collecting supernatant oil

OILMAX™

High-capacity de-oiling

This skid enables you to treat and recover large quantities of supernatant oils from your effluents.



Excellent phase shift

Optimised coalescence provides high-performance phase shifting for sensitive applications.



High-capacity pre-filter

BAGTECH technology combined with MAGTECH magnetic filtration for high-efficiency pre-filtration.

Principle

The oil present in the liquid in the form of micro-droplets accumulates on the PP coalescing media, then migrates to the surface before being recovered.

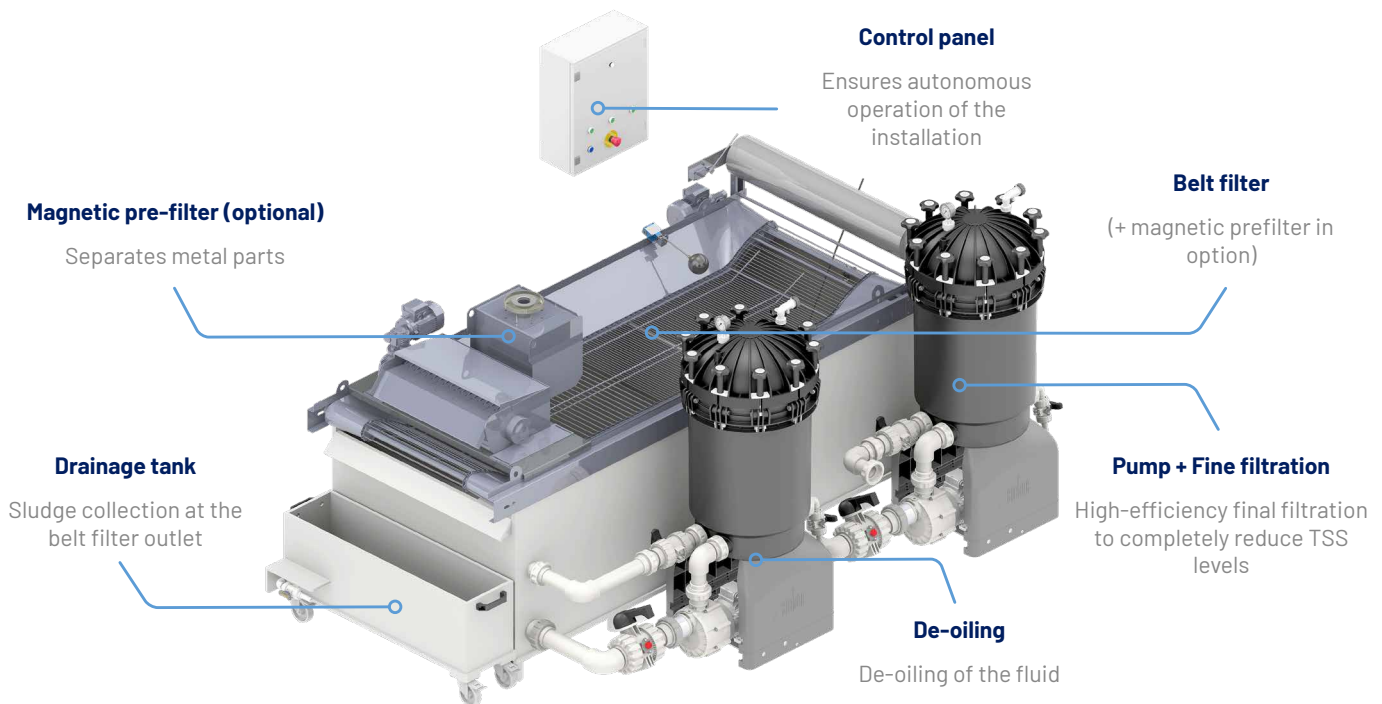
Options

- Programmer: automatic extraction
- Mobile version with rolling chassis
- Floating skimmer for variable levels
- Fixed skimmer for stable levels



High-capacity liquid filtration

This treatment skid incorporates automatic pre-filtration with unrolling media.



Temperature control

The COOLTECH™ option



Custom-made design.

Because our clients have different needs, we design CENTRIPURE™ following your specifications.

CUSTOM FILTRATION

Compatible interchangeable media



BAGTECH™

Pre-filtration bag
Filtration from 150 to 600 µm. Washable and reusable. No tools required for installation.



FILTECH™

Pleated cartridge.
Filtration 1 to 100 µm. Washable and reusable. No tools required for installation.



MAGTECH™

Magnetic filtration.
5 kg of particles captured. Easy to install and clean. 3000 to 11000 Gauss power.



OILTECH™

De-oiling microfibres.
Hydrophobic fibres. 500 g captures 6 l of oil. High retention capacity.



BANDTECH™

Roll media for belt filters.
Wide range of materials and porosities.

Autonomous fluid recycling and effluent treatment station

Dedicated to effluent recycling, EASYPURE™ is a compact and autonomous station operating by batch, adaptable to all types of liquids for discharge or recycling thanks to its modular design.

Features

Automatic and/or manual operation via touchscreen interface. Alarm settings (pH, temperature, filter clogging, level detection).



Rapid return on investment

Reduces wastewater reprocessing costs.



Optimal properties

SIEBEC filtration eliminates particles.



Physico-chemical treatment

Very low treatment costs compared with evaporation or removal by a service provider.



Easy maintenance

Our ergonomic closure system simplifies the manual replacement of filtration media.

APPLICATIONS

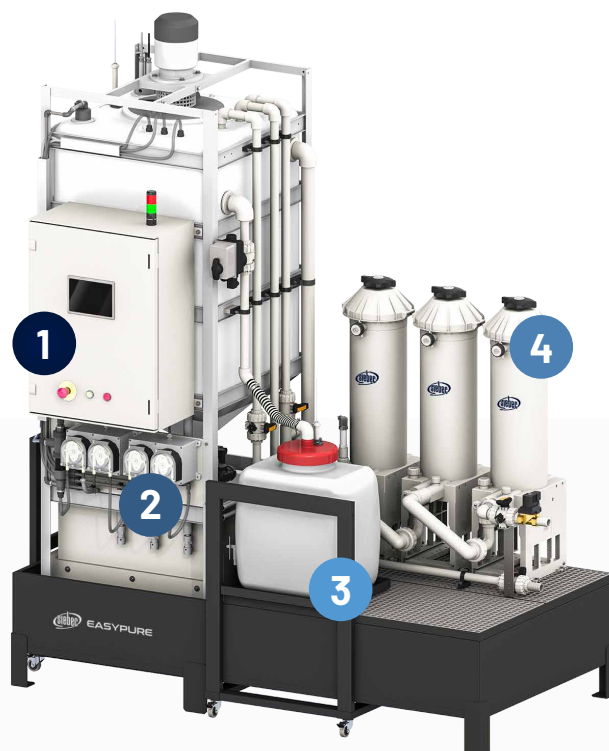
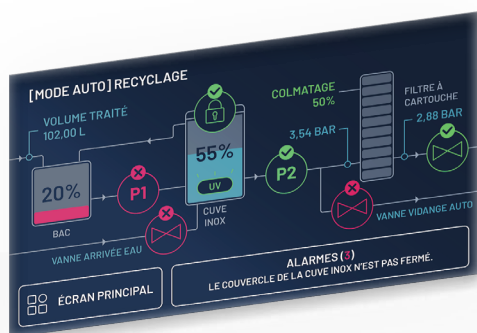
EASYPURE™ treatment plants can be used for:

Wash water
Rinsing water
Penetrant testing water
Test water
Hydraulic test water
Metal-laden water
Hydrocarbon-laden water
Particle-laden water

...

Daily volume treated	Up to 20 m ³ /day
Volume per cycle	500 or 1000 litres as standard. Up to 6000 litres (customised)
Dimensions	2000 x 1000 x 2400 mm (W x D x H)
Power consumption	< 1 kWh - <i>Nearly 100 times less than an evaporator!</i>

AUTOMATIC MODE



1

Configuration

EASYPURE™ is designed for the targeted treatment of a specific pollutant, according to your requirements. The treatment process is initiated using a touch-sensitive control interface integrated into the station.

2

Batch treatment

Once the liquid has entered the main tank, a dosing pump system ensures effective treatment of the specific pollutant, tailored to the required application.

**pH adjustment**

Addition of soda or acid to regulate the pH.

**Coagulation - flocculation**

Allows very fine colloidal particles to settle.

3

Recovery modules

Pollutants can be recovered from different modules.

**Sludge separation**

Recovery of sludge in filter bags mounted on trolleys, or in big-bags for large volumes.

Oil separation

Oil recovery in cart-mounted canister.

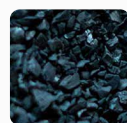
4

Final filtration

Integrated filtration modules

**Fine filtration**

Separation of suspended matter on cartridges & filter bags.

**Activated carbon**

Captures organic compounds and traces of hydrocarbons.

**Ion exchange resin**

Recovers dissolved metals (pollutants or precious metals)

**Anti-bacterial (optional)**

UV treatment for process water reuse.

REUSE

OR

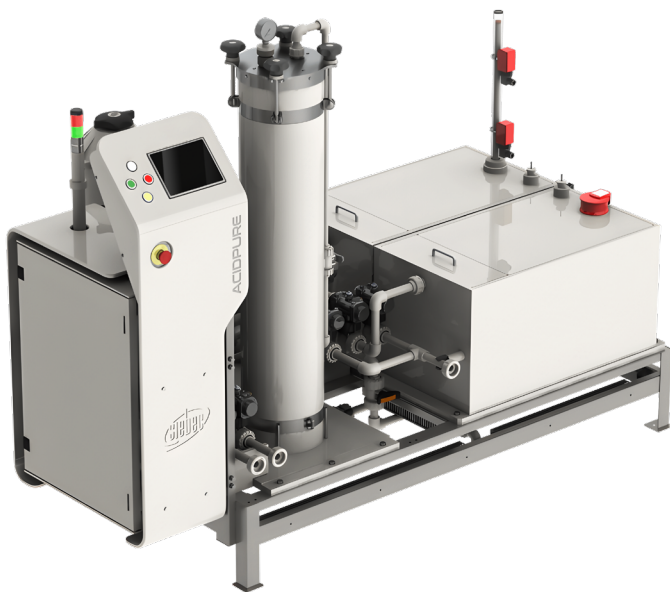
DISCHARGE

ACIDPURE™

Acid regeneration station

Acidpure™ is a self-contained treatment station for purifying and extending the life of acid solutions.

Dissolved pollution (Aluminium, Iron...) is removed during regeneration cycles.



A sustainable and profitable investment

Eliminates a significant proportion of maintenance and servicing costs.

Reduced environmental impact thanks to acid recycling.

94% of acid recoverable thanks to ACIDPURE™

Applications

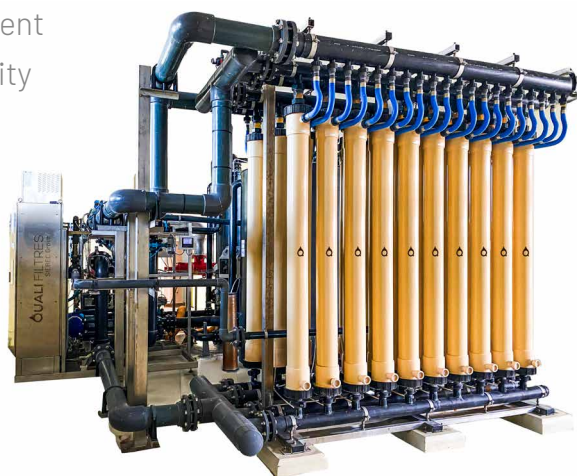
Purification of sulphuric, hydrochloric, nitric, phosphoric acid solutions ...

QUALI-UF™

Ultrafiltration skid

The QUALI-UF™ skid represents an innovative advancement in pre-assembled ultrafiltration systems, offering flexibility and ease of installation to ensure years of trouble-free operation..

QUALI FILTRES
SIEBEC Group



Modular design

Compact and modular skids for flexible installation.



Reliable high-efficiency filtration

Hollow fiber membranes for high-quality water.



Intuitive operator interface

Easy to use, with enhanced diagnostics.

Applications

Treatment of surface, groundwater, wastewater, and recycled water
Use in various industrial processes
Recycling of rinsing and degreasing baths

ELECTRODIALYSE

Electrodialysis treatment station

Electrodialysis solution for recovery of process baths, demineralisation and pre-concentration of your fluids.



Recovery of dissolved metals

Maximise your resources by recovering metals from rinsing baths (nickel, copper, gold, silver, etc.).



Water purification

Highly purified water that can be reused in your industrial processes, preserving water resources.



Process optimisation

Pre-concentration of dissolved metals, improving overall efficiency, reducing costs and saving energy.

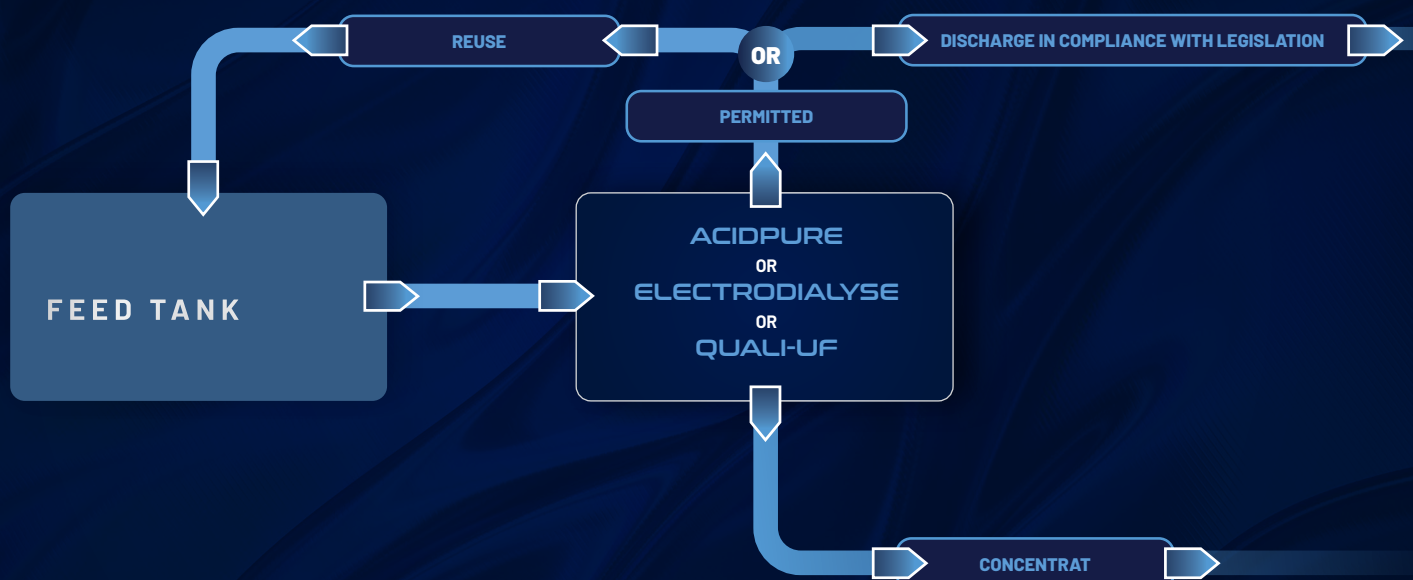
Applications

Recovery of metals from rinsing baths (nickel, copper, gold, silver, etc.)

Demineralisation of water leaving the plant for reuse.

Pre-concentration before evapo-concentration of rinsing baths.

SIMPLIFIED OPERATING PRINCIPLE



Ultraviolet antibacterial treatment

Prevents bacterial growth within the fluid to preserve its properties.



Patented technology

The gravitational design enables efficient treatment of even turbid fluids, without clogging the lamp.



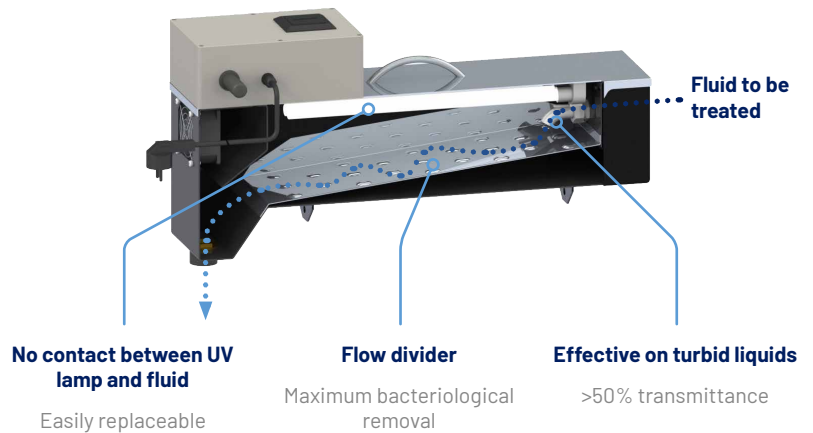
Numerous benefits

Reduced need for biocide, lower bacterial count (3 log), elimination of unpleasant odors, dermatitis...



Various applications

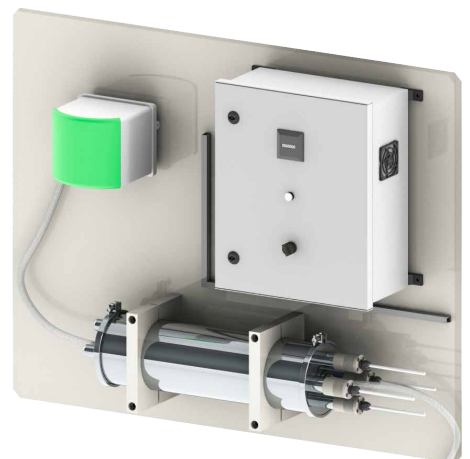
Swarf juices, washing water, tribo-fining machine effluents...



OZONATION

Ozone oxidation and disinfection

A powerful oxidizing agent capable of transforming complex organic molecules into simple ones. Ozone breaks down toxic compounds and prevents bacterial growth.



Applications

- Disinfection & bacterial population reduction
- Elimination of micropollutants and hard COD.
- Decolourisation.
- Cyanide oxidation
- Iron precipitation...

Electrolysis treatment system

Apparatus designed to recover metals contained in dilute or concentrated solutions.



Specifications

Flow rate (m³/h)

1.8 - 3

Materials

PP

Max. temperature (°C)

60

Filtration

Cartridge

Advantages

Capable of recovering very low concentrations (<5 ppm) depending on the application.

No metal loss.

Effective on all metals: gold, palladium, rhodium, ruthenium, silver, copper, nickel, etc.

Easy to melt and refine: quick cartridge change and easy recovery.

Continuous destruction of cyanides during the recovery process by adding ECN.

SPP STEP

Programmable dosing pump

Compact and easily integrable, the SPP™ STEP peristaltic dosing pump is ideal for intermittent dosing, ensuring maximum precision and superior reliability thanks to its advanced programming features and modularity.



Specifications

Flow rate (l/h)

1 - 28

Rotation speed (rpm)

65

Power (W)

20

Dosing precision

Ultra-precise programmable volumetric dosing, essential for water treatment applications.

Easy integration

Programmable and compact interface with direct 230V connection, ideal for adapting to existing systems.

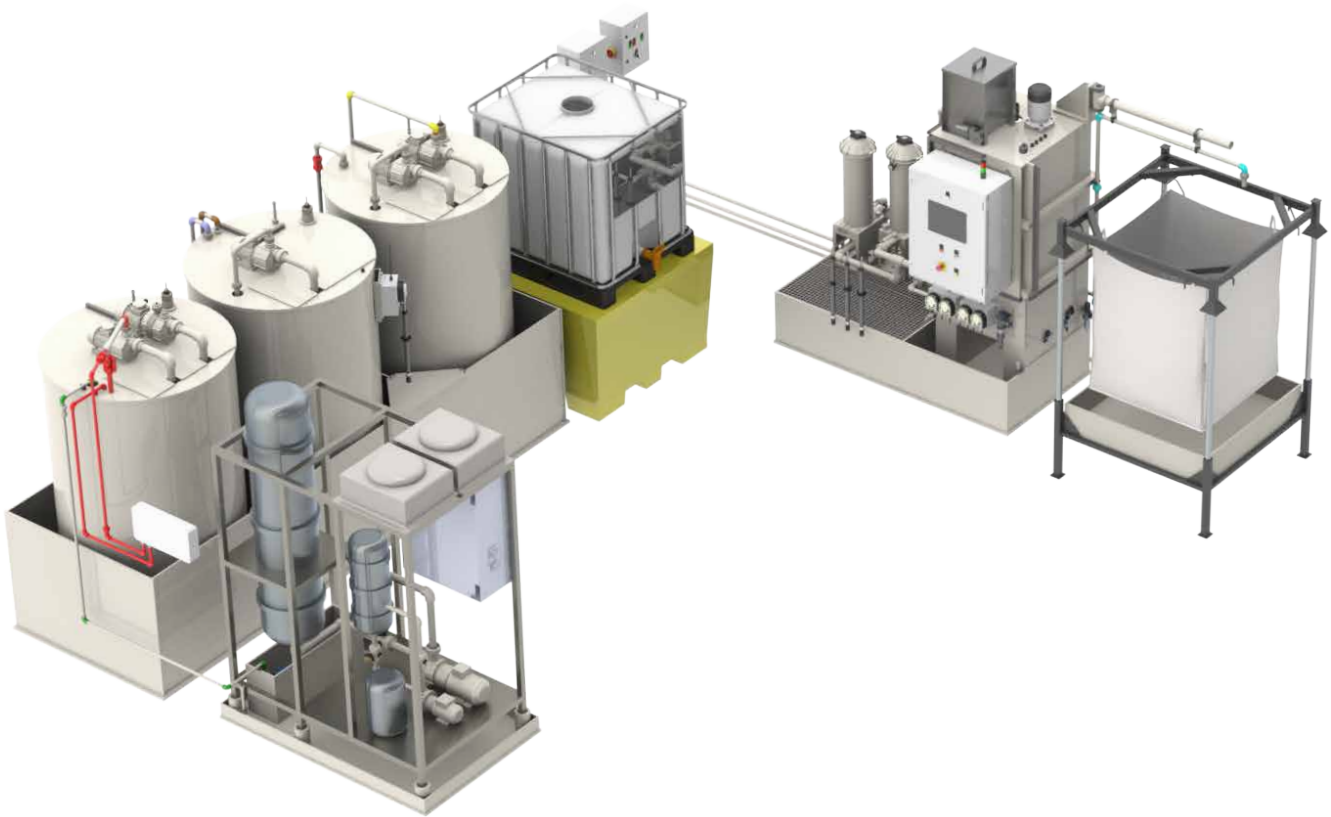
Simplified maintenance

Intuitive interface and control options for continuous and uninterrupted operation.

Customisation design & projects

Our engineering and design department specializes in designing plants to meet specific customer requirements.

INDUSTRIAL WATER TREATMENT



Features

Flow rate

500L / day

Application

Treatment and recycling of cosmetics
industry processes

Technical solutions

Physico-chemical pre-treatment

Evapoconcentrator

Supervisory automate

Storage tank for reuse

Ozone treatment for reuse

TREATMENT OF CAREENING WATER

Containerised skid



Features

Flow rate

10 m³/h

Application

Treatment of careening water before discharge into the sea

Technical solutions

Pre-filtration on rolling media filter

Filtration on FILTECH™ 10µm and 1µm cartridges

Ion exchange resin treatment

Activated carbon treatment

STRIPPING WATER TREATMENT FOR INDUSTRIAL PIPES

Helicopter skids



Features

Flow rate

5 m³/h

Application

Stripping water treatment for REUSE

Technical solutions

Pre-filtration on rolling media filter

Filtration on FILTECH™ 10µm and 1µm cartridges

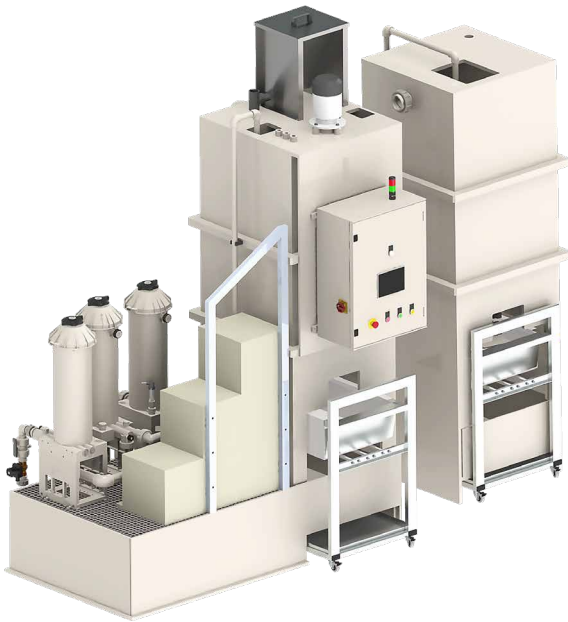
Ion exchange resin treatment

Activated carbon treatment

Customisation design & projects

Our engineering and design department specializes in designing plants to meet specific customer requirements.

VIBROFINISHING WATER TREATMENT / RESSUAGE



Features

Flow rate

1000L / day

Application

vibrofinishing process treatment
before discharge

Technical solutions

Decanter (conical tank)
Physico-chemical treatment
Automatic supervision
Final filtration (10µm)

PAINT WASH WATER TREATMENT



Features

Flow rate

3000L / day

Application

Paint production wash water
treatment

Technical solutions

Physical-chemical treatment
Sludge dewatering in big-bags
Automatic supervision
Final filtration (10µm)

Filtration consumables

A wide selection to meet all water treatment needs.



QUALITHERM™

Standard heat-welded cartridge

- 0.5 to 150 µm (nominal)
- High-performance depth filtration thanks to density gradient



QUALIMAX™

Extruded activated carbon cartridge

- Activated carbon
- Chlorine and odor reduction



FILTECH™

Pleated cartridge with large filter area

- 0.2 to 100 µm (nominal & absolute)
- Washable & reusable



QUALI HIGH-FLOW™

Large-surface pleated cartridge

- 1 to 100 µm (nominal & absolute)
- Inner to outer filtration



QUALIPOCHE™ F

Felt pocket

- 1 to 200 µm
- Tool-free insertion



QUALIPOCHE™ M

Monofilament pouch

- 0.5 to 1500 µm
- Tool-free installation



PRESSTECH™

Filter cloth press

- Grammage: 140 to 1000 g/m²
- Permeability
- Permeability: 2 to 1000 l/dm²/min



ACTIVATED CARBON

Granules

- Made from coconut, whose pore structure offers optimal adsorption
- Special Nickel formulation available



RESIN

Ion exchange resin

- Strong cationic, strong anionic, weak anionic
- Special precious metals resin
- Resin for specific applications



PP MICROFIBERS

De-oiling microfibers

- Material: polypropylene
- 500 g captures 6 liters of oil
- Unlimited storage life in dry conditions
- Safe to incinerate



A question?
Need advice?
Our experts answer you.

Discover all our innovations on
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