ECO TECHNO

VACUUM EVAPORATION SYSTEMS

VACUUM EVAPORATORS AND CONCENTRATORS

EFFECTIVE, SUSTAINABLE, LONG-LASTING SOLUTIONS

Eco-Techno
A 40-YEAR-LONG HISTORY

A HISTORY OF INNOVATION SINCE 1984

Founded in 1984 with the production of small units for separating water from saline or acidic solutions, Ecotecno began manufacturing vacuum evaporators with a capacity from 70 to 5.000 litres per day.

The technology used, revolutionary for its time, allowed the process to be carried out using only electricity, generating a vacuum sufficient to enable evaporation at low temperatures.

In the following years, important collaborations with international retailers allowed the company to expand its markets in Europe and worldwide. In the early 2000s, Di.Pe., a small company specializing in single or multiple effect thermal evaporators, was absorbed. This merger allowed Ecotecno to expand its business by offering increasingly larger systems.

New markets are explored, and the need arises to expand the product range to meet the needs of different industrial sectors. The internal organisation is strengthened with technical staff capable of supporting the customer throughout all stages of the process: an in-house laboratory capable of carrying out preliminary assessments, analyses and tests, a design office equipped with modern 3D systems, and an engineering department that works in synergy with the sales office to evaluate the best solutions to offer its customers.

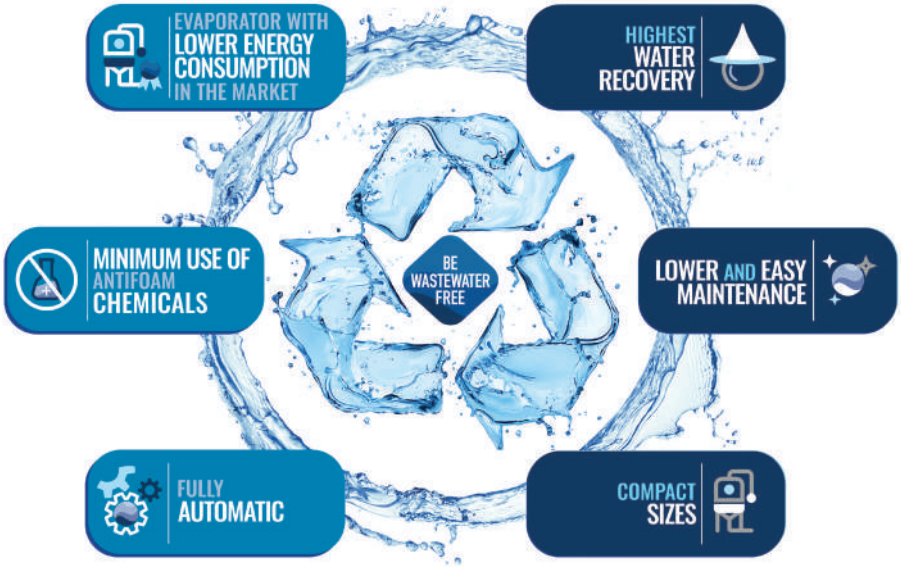
ECO-TECHNO WAS FOUNDED IN 2014: THE RESULT OF A TRADITION THAT BEGAN FORTY YEARS AGO AND AN EVOLUTION THAT CONTINUES DAY AFTER DAY.

The benefits of vacuum evaporation

A choice that enhances your company

WHY VACUUM EVAPORATION TECHNOLOGY IS SO WIDELY USED IN MANY INDUSTRIAL SECTORS

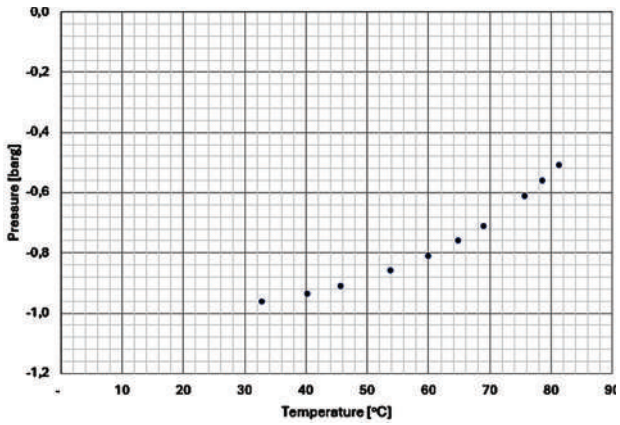
ADVANTAGES	DESCRIPTION
EASY	Easy to install (Plug & Play) and simple to use
EFFECTIVE	Succeeds where other technologies fail
VERSATILE	Suitable for treating a wide range of wastewater containing metals, chemicals and organic substances with very different characteristics
INTEGRABLE	Can also be used as a post-treatment to reduce wastewater discharge (from «Minimum Liquid Discharge» to «Zero Liquid Discharge»)
EFFICIENT	Enables reduction in disposal costs
SUSTAINABLE	Reduces operating costs for primary water, thanks to distillate recovery Enables the recovery of concentrate and reuse of any by-product
SAFE	It guarantees a reduction in risks and costs associated with transport, loading / unloading / handling of polluted waste and its storage
LEAN	It reduces the complexity of waste disposal management (waiting times and downtime due to the unavailability of waste disposal platforms)
COMPACT	Compact structure, takes up little floor space and leaves room for your production and logistic processes



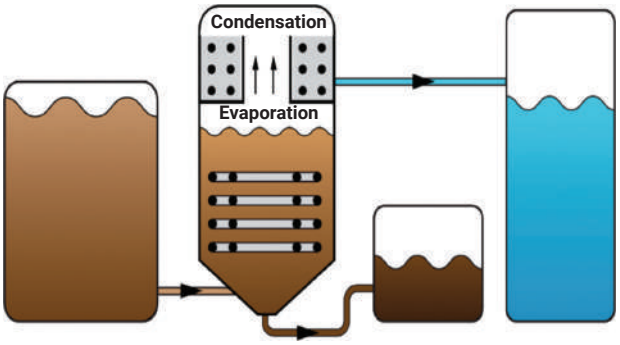
What is vacuum evaporation
The physical basis of our technology

THE EVAPORATION

Evaporation is a physical process that separates water in a solution. In our case, we perform this process under vacuum, it is to say, at a pressure lower than the atmospheric. Therefore, the boiling point decreases as the vacuum level increases. Thanks to this principle, we can recover energy in many ways using different technologies.



Vacuum evaporation means **significant reduction in the volume of liquid waste** and **savings in waste management.** In industrial sector, it enables water recycling and the recovery of dissolved substances.



Wastewater to treat **Concentrate** **Condensate**

Evaporation is controlled by the heat transfer rate and the degree of evaporation depends on the following factors:

- Temperature difference between the heating medium and the liquid being evaporated.
- Exchange surface area.
- Overall heat transfer coefficient.
- Properties of the liquid being evaporated.

The key parameter in evaporator design is the exchange area required for evaporation. Both mass and energy balances must be considered when calculating this area.

VACUUM EVAPORATION ALLOWS INDUSTRIAL WASTEWATER TO BE TREATED IN A CLEAN, EFFICIENT AND SAFE WAY, WHERE TRADITIONAL SYSTEMS CANNOT OPERATE.

Zero Liquid Discharge

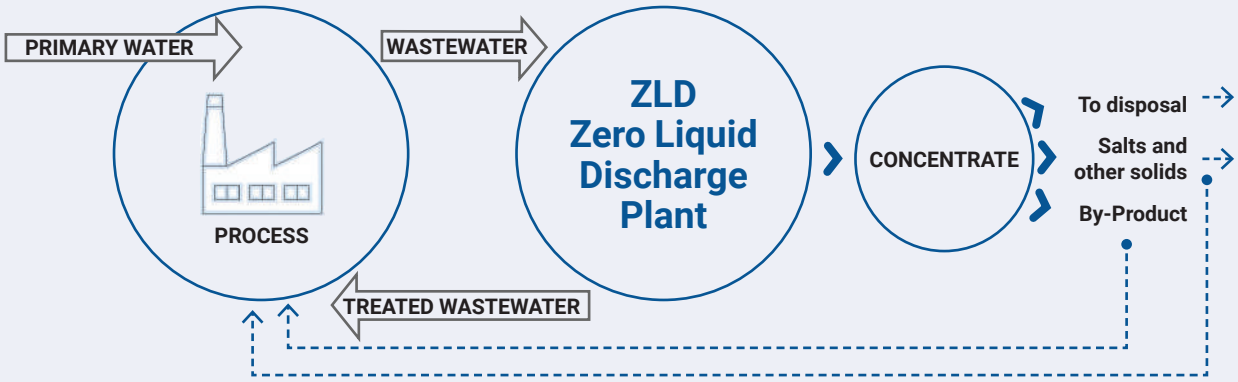
Achieving true circularity in water use

MISSION: Develop and provide ZLD solutions for your wastewater

Zero Liquid Discharge (ZLD) is an approach to wastewater treatment that involves the complete recovery and reuse of the «evaporated» fraction (95-98%), thus eliminating discharges and obtaining a solid concentrate that often represents a reusable raw material (2-5%).

The growing interest in ZLD solutions is driven by the increasing need to preserve our most important resource: water.

Vacuum evaporation is one of the most suitable technologies for achieving this goal: it can operate as a stand-alone system or in combination with other water treatment techniques.



Many industrial sectors, one solution
Successful applications of our evaporators

VACUUM EVAPORATION IN THE GALVANIC INDUSTRY

Process: zinc plating.
Wastewater to treat: rinsing water after chemical-physical treatment.
Problem described: inability to comply with discharge limits, forcing the water to be managed as wastewater to be disposed of.
Solution: thermal evaporator, mod. ECO DPM3.
Advantages: recovery of distillate in the production process, reduction in disposal costs by more than 20 times, energy efficiency thanks to hot water supplied by a cogenerator.

VACUUM EVAPORATION IN THE PHARMACEUTICAL INDUSTRY

Process: drug and vaccine production.
Wastewater to treat : washing water from mixes, reactors containing active ingredients and other complex organic molecules.
Problem described: removal of APIs present in the water in order to discharge it.
Solution: thermal evaporator mod. ECO DPM2.
Advantages: removal of active ingredients and other complex molecules greater than 99%, distillate quality ideal for both discharge and reuse.

VACUUM EVAPORATION IN PERSONAL CARE AND COSMETICS INDUSTRY

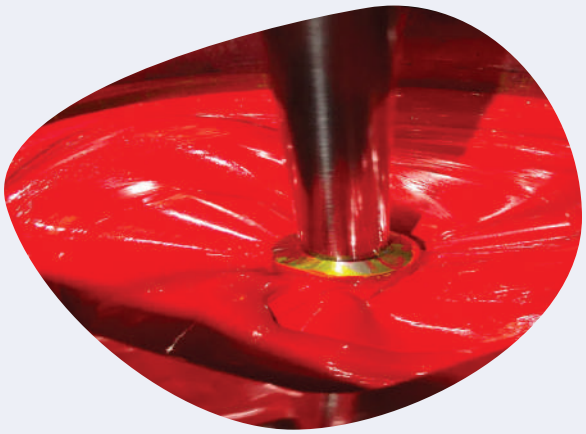
Process: production of cleaning and personal care products.
Wastewater to treat : washing water containing surfactants and various types of organic substances.
Problem described: Too high disposal costs.
Solution: mechanical vapour recompression evaporator mod. ECO CMV.
Advantages: reduction in disposal costs of more than 10 times, total elimination of surfactants, obtaining a high-quality distillate suitable for both discharge and reuse.

Many industrial sectors, one solution
Successful applications of our evaporators

VACUUM EVAPORATION IN DIE CASTING

Process: aluminium die casting.
Wastewater to treat : emulsions with release agent.
Problem described: disposal costs reduction and full water recovery.
Solution: thermal evaporator mod. ECO DPM3.
Advantages: recovery of more than 95% of the distillate, reduction in disposal costs, reduction in the amount of water drawn from the mains.

VACUUM EVAPORATION IN PACKAGING INDUSTRY



Process: flexo printing.
Wastewater to treat : ink washes.
Problem described: excessive disposal costs and possibility of recovering water in a closed circuit.
Solution: scraped, heat pump evaporator, mod. ECO VR-HP.
Advantages: reduction in disposal costs of more than 10 times, 90% of water recovered in the process.

VACUUM EVAPORATION IN WASTE DISPOSAL PLATFORMS

Process: wastewater disposal platforms.
Wastewater to treat: liquid waste with a wide range of EWC codes.
Problem described: need for a reliable and versatile technology for wastewater that cannot be treated with traditional chemical-physical, biological or membrane systems.
Solution: thermal evaporator mod. ECO DPM SE, combined with a thermal scraped concentrator, mod. ECO VR-WW.
Advantages: possibility of collecting and treating larger volumes and types of wastewater than before.

Many industrial sectors, one solution
Successful applications of our evaporators

VACUUM EVAPORATION IN GRAPHIC ARTS

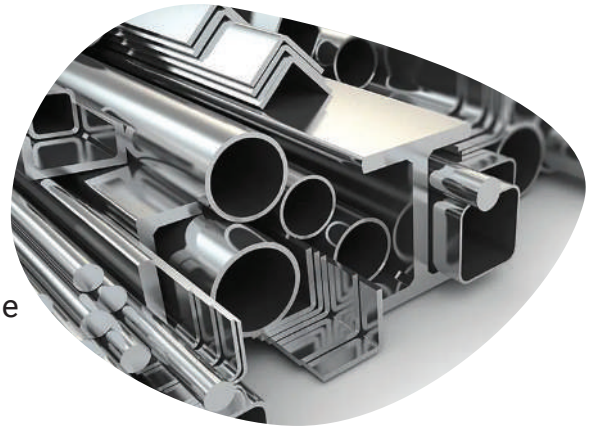
Process: photoengraving and lithography.
Wastewater to treat: acid and alkaline rinsing water.
Problem described: disposal costs too high.
Solution: heat pump evaporator mod. ECO VS-HP.
Advantages: reduction in disposal costs by more than 10 times, total recovery of treated water in the production cycle.

VACUUM EVAPORATION IN SALT CRYSTALLIZATION

Process: waste disposal.
Wastewater to treat: saline solution with a high concentration of NaCl.
Problem described: separating salt from water, thus turning it from waste to a by-product.
Solution: thermal evaporator mod. ECO DPM SE and centrifuge.
Advantages: profit generated by obtaining salt that can be resold as a by-product, eliminating disposal costs.

VACUUM EVAPORATION IN SURFACE TREATMENTS

Process: cataphoresis and industrial painting.
Wastewater to treat: rinsing water from degreasing and phosphating operations.
Problem described: Too high disposal costs, possibility to recover water in a closed circuit.
Solution: heat pump evaporator mod. ECO VS-HP.
Advantages: reduction in disposal costs by more than 20 times, total recovery of treated water in the production cycle, keeping process tanks cleaner.



Many industrial sectors, one solution
Successful applications of our evaporators

INDUSTRIAL SECTOR	APPLICATION
MECHANICAL MACHINING	Used oil emulsions, washing tunnel wastewater, tumbling water, cooling lubricants, penetrating liquids / x-rays
DIE-CASTING	Oil emulsions, release agents, cooling lubricants, mould cleaning agents, water and glycols
GALVANIC AND SURFACE TREATMENTS	Treatment of alkaline-acid waste, washing baths, spent salt solutions, waste from dephosphatisation, phosphating, burnishing, galvanising, nickel plating
HEAT TREATMENTS	Quenching water and salt recovery
PACKAGING AND INKS	Machinery and production line processing, flexographic printing washing, wastewater containing adhesives, wastewater containing inks
ELECTRONICS AND SEMICONDUCTORS	Acid or alkaline waste treatment, washing from PCB production plants, microelectronics
INDUSTRIAL PAINTING	Machining processes, equipment cleaning, including degreasing, phosphating, passivation, rinsing
WASTE PLATFORMS LANDFILL LEACHATE	Wastewater, saline wastewater, recovery of used batteries Water treatment with dissolved salts, organic compounds and ammonia
ENERGY, BIOMETHANE AND BIOGAS PRODUCTION	Treatment of zootechnical digestate, biomass and OFUSW biowaste Applications for nuclear sector
CHEMICAL-PHARMACEUTICAL	Washing reactors and production lines, concentrations of thermolabile synthesis intermediates, water from the production of detergents, adhesives and bonding agents, osmosis concentrate
CLEANSING (HEALTHCARE) AND COSMETICS	Washing water from production equipment
FOOD & BEVERAGE	Recovery and concentration of wash water, sugar solutions, wastewater from salting processes, enzymes, hydroalcoholic concentrations and flavour extracts, rinses of local plants, whey concentration
MINING, OIL & GAS	Wastewater from extraction, machinery washing
FASHION & LUXURY	Washing and rinsing baths from plastic/metal coating processes, wastewater from tanneries, precious metal recovery Water treatment for boat hull washing (yachting)
DRUM RECOVERY	Drum reclamation and regeneration
RUBBER	Vulcanization and salt recovery water, scrubber water concentration
GLASS	Wastewater from grinding, engraving and coloring processes

Your real savings

The technology has very short payback times

250.000€
WASTE DISPOSAL COSTS
ANNUAL AMOUNT SPENT TO DISPOSE OF WASTEWATER PRODUCED BY THE PLANT

- Average price paid for the disposal of 10 m3/day of wastewater

The following are excluded:

- Internal management costs
- Unavailability of disposal platforms
- Loading / unloading times
- Environmental risks
- Safety risks

-75.000€
ENERGY COSTS
ANNUAL AMOUNT SPENT ON ELECTRICITY USED BY THE EVAPORATOR

-5.000€
MAINTENANCE COSTS
ANNUAL AMOUNT FOR SPARE PARTS AND LABOUR WITH ECO-TECHNO MAINTENANCE PLAN

- Thanks to Eco-Techno's design choices and scheduled maintenance plans, maintenance is minimal

-25.000€
CONCENTRATE COST
ANNUAL AMOUNT SPENT ON DISPOSING OF THE CONCENTRATED PRODUCT

- Disposal costs for the residual concentrate

+5.000€
RECOVERY
ANNUAL AMOUNT FROM THE REUSE OF DISTILLATE AND BY-PRODUCT FROM CONCENTRATE

- Full reuse of water recovered during the production process
- Possible recovery of by-products from the concentrate

150.000€
ANNUAL BENEFIT
TOTAL ECONOMIC SAVINGS OPERATING COSTS (excluding evaporator)

Our complete range
Evaporation technologies

HEAT PUMP

Electric power

These electric evaporators use their heat pump for the evaporation and condensation phases, operating at a temperature around 35°C. Boiling at such low temperatures is possible thanks to the high degree of vacuum inside the boiling vessel.
Eco-Techno uses non-flammable refrigerant gases with reduced environmental impact and low GWP.

LOW TEMPERATURE EVAPORATOR
HEAT PUMP
ELECTRIC POWER

With a treatment capacity ranging from **250** to **20,000 litres/day,** heat pump evaporators are extremely versatile. Their **Plug&Play design** semplifies installation and makes them ready for use in short time, without complicated installation procedures.

THERMAL

Thermal Energy

Thermal evaporators are powered by **external heat sources** such as hot water, steam or diathermic oil. These processes optimise the latent heat of evaporation of water, ensuring reduced energy consumption and high efficiency in wastewater treatment.

MONO OR MULTIPLE STAGE EVAPORATOR
THERMAL
HOT WATER/STEAM

Our thermal evaporators offer a range of flow rates from **500 to 200,000** litres/day, to meet the most diverse treatment needs. Available in **single, double** or **triple stage** configurations, they guarantee effective treatment even for the **most complex wastewater.**

MECHANICAL RECOMPRESSION

Electric/hybrid operation

In the mechanical recompression process, the vapour generated during evaporation is «suctioned» and compressed by a compressor, increasing its temperature. This high-temperature vapour, which reaches values between **85°C and 90°C,** is then used to provide the energy necessary for the product to be evaporated.

MECHANICAL VAPOUR RECOMPRESSION
MVR
HYBRID EVAPORATORS

Our mechanical recompression evaporators offer variable flow rates ranging **from 20,000 to 100,000 litres/day.**
Evaporation is extremely efficient, with **low electricity consumption** and optimisation of energy resources.

ECO VS HP

VS HP 500 – 20.000

Flow rate from 21 to 833 l/h

⚠ Electric power

ECO VS HP Series

Its main feature is its extreme simplicity of installation and use in a wide range of applications. It is particularly recommended for the treatment of small quantities of water-based solutions, including corrosive ones.

ECO CR HP Series

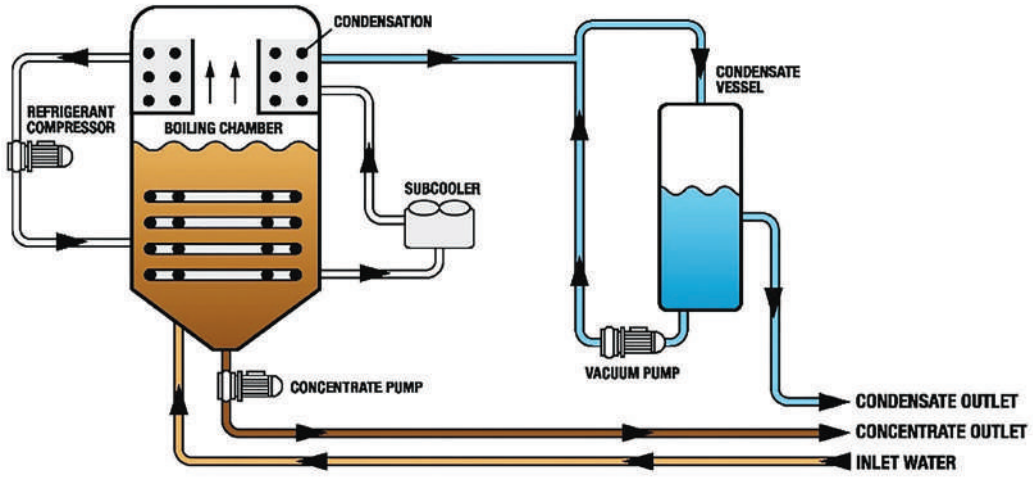
It derives from the VS-HP series, but is created for the treatment of highly corrosive liquids. Titanium heat exchanger and evaporation vessel coated with acid-resistant resin.

KEY FEATURES

- Fully flanged boiling vessel with vertical design, inspectable via sight glass and illuminator
- Automatic product loading, distillate and concentrate discharge
- Submerged heat exchanger, inspectable and completely removable for easy maintenance
- Built-in top condensation exchanger for condensing steam (distillate)
- Heat pump that generates heat for heating the wastewater and cooling for its condensation
- Vacuum circuit with centrifugal pump and ejector or liquid ring pump, for operation at low temperatures
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Plug & Play installation
- Compact structure
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

Picture for illustrative purposes only

PROCESS SCHEME



⚠ Electric power

ECO VR HP
VR HP 500 – 3.000
Flow rate from 21 to 125 l/h

ECO VR HP Series

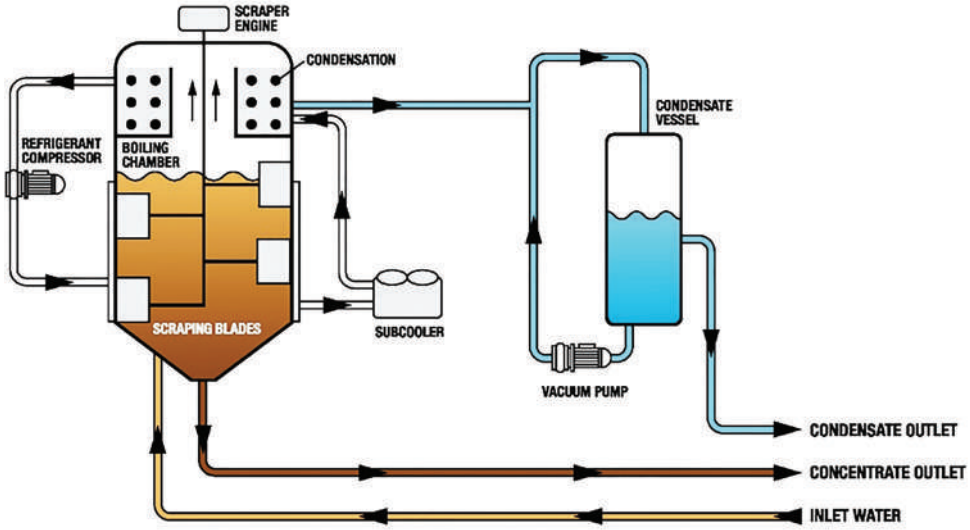
ECO VR HP vacuum concentrators are designed for the treatment of particularly fouling wastewater. They are equipped with an internal scraper for high concentrations. Recommended for high-density aqueous solutions.

Picture for illustrative purposes only

KEY FEATURES

- Fully flanged boiling vessel with vertical design, inspectable via sight glass and illuminator
- Internal scraper with scraping blades to keep the internal surface of the boiling vessel clean and prevent scaling
- Automatic product loading, distillate and concentrate discharge
- Jacketed heat exchanger (not in contact with the wastewater)
- Built-in top condensation exchanger for condensing steam (distillate)
- Heat pump that generates heat for heating the wastewater and cooling for its condensation
- Vacuum circuit with centrifugal pump, ejector and cooling tank, for operation at low temperatures
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Plug & Play installation
- Compact structure
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

PROCESS SCHEME



ECO DRY HP

DRY HP 250 – 1.000

Flow rate from 10 to 42 l/h

⚠ Electric power

ECO DRY HP Series

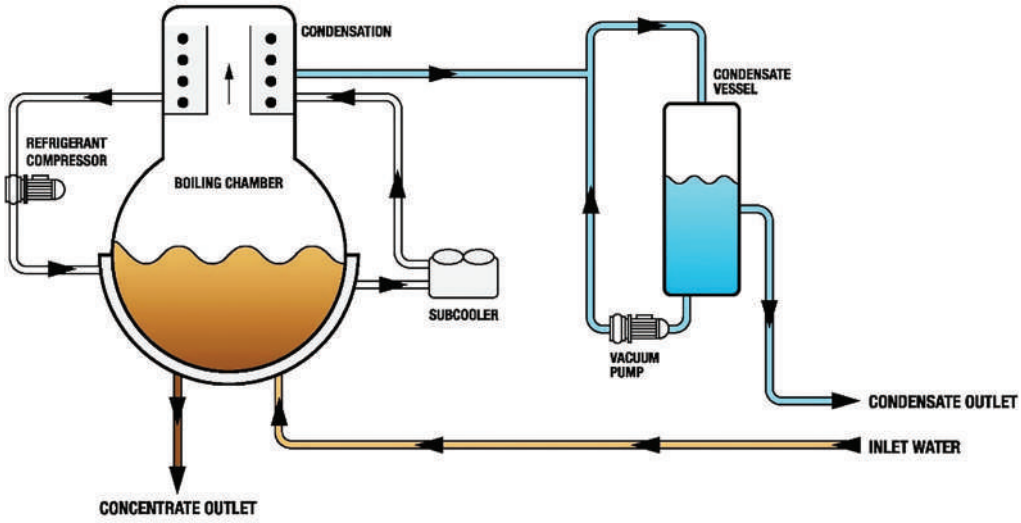
ECO DRY concentrators are designed to obtain semi-solid concentrates, as well as to recover raw materials dissolved in the wastewater.

KEY FEATURES

- Fully flanged boiling vessel with horizontal design
- Automatic product loading and distillate discharge
- Jacketed heat exchanger (not in contact with the wastewater)
- Optional: internal screw, allowing a continuous mixing of the product inside the boiling vessel and the easy extraction of the concentrate at the end of the cycle
- Built-in top condensation exchanger for condensing steam (distillate)
- Heat pump that generates heat for heating the wastewater and cooling for its condensation
- Vacuum circuit with centrifugal pump, ejector and cooling tank, for vacuum operation
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Plug & Play installation
- Compact structure
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

Picture for illustrative purposes only

PROCESS SCHEME



ECO DPM

DPM 4.000 – 30.000

Flow rate from 165 to 1.250 l/h

ECO DPM Series

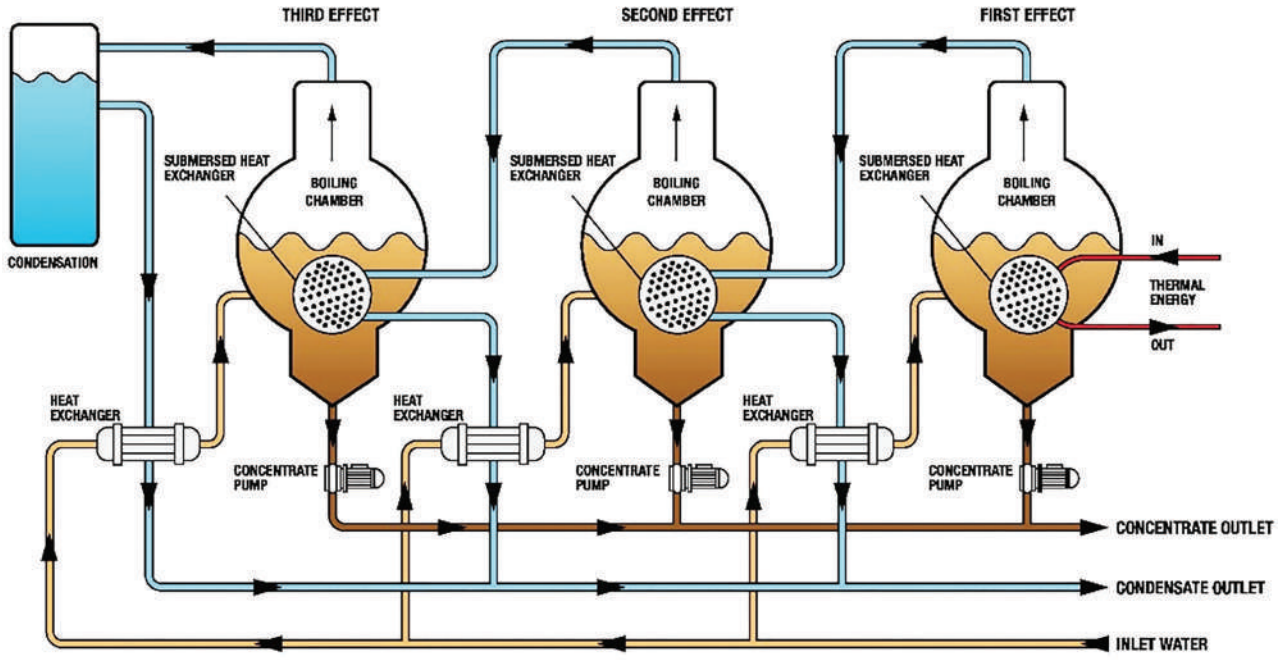
ECO DPM vacuum evaporators are designed to efficiently treat medium to large flow rates.
Powered by thermal sources such as hot water or steam.
Energy savings thanks to the possibility of multiple-effect configuration.

Picture for illustrative purposes only

KEY FEATURES

- Fully flanged boiling vessel with horizontal design
- Automatic product loading, distillate and concentrate discharge
- Submerged tube bundle heat exchanger, easy to remove for easy maintenance
- External plate exchanger for condensing steam (distillate)
- High-efficiency vacuum circuit
- Automatic antifoam dosage circuit
- Compact structure
- Modular configuration, mono or multiple stage
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

PROCESS SCHEME



ECO VR WW

VR-WW 1.000 – 20.000

Flow rate from 42 to 833 l/h

ECO VR WW Series

ECO VR WW vacuum concentrators are designed for the treatment of particularly fouling wastewater. They are equipped with an internal scraper for high concentrations. Recommended for the treatment of high-density wastewater and ZLD goals.

Picture for illustrative purposes only

KEY FEATURES

- Fully flanged boiling vessel with vertical design, inspectable via sight glass and illuminator
- Internal scraper with scraping blades to keep the internal surface of the boiling vessel clean and prevent scaling
- Automatic product loading, distillate and concentrate discharge
- Jacketed heat exchanger (not in contact with the wastewater)
- External plate exchanger for condensing steam (distillate)
- Vacuum circuit for vacuum operation
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Compact structure
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

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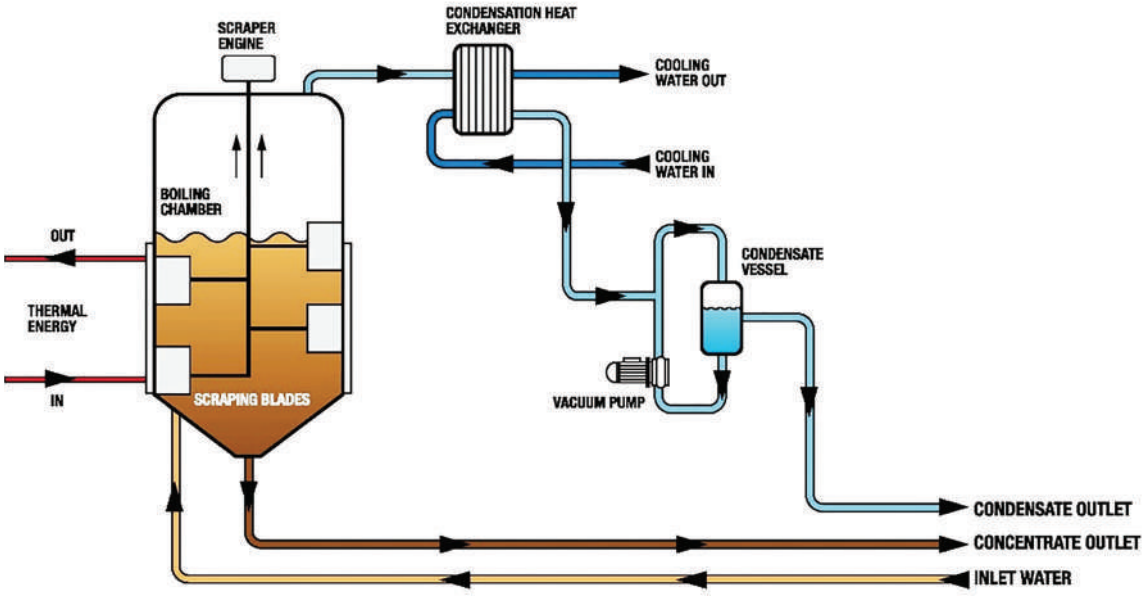


ECO DRY WW

DRY WW 1.000 – 4.000

Flow rate from 42 to 167 l/h

ECO DRY WW Series

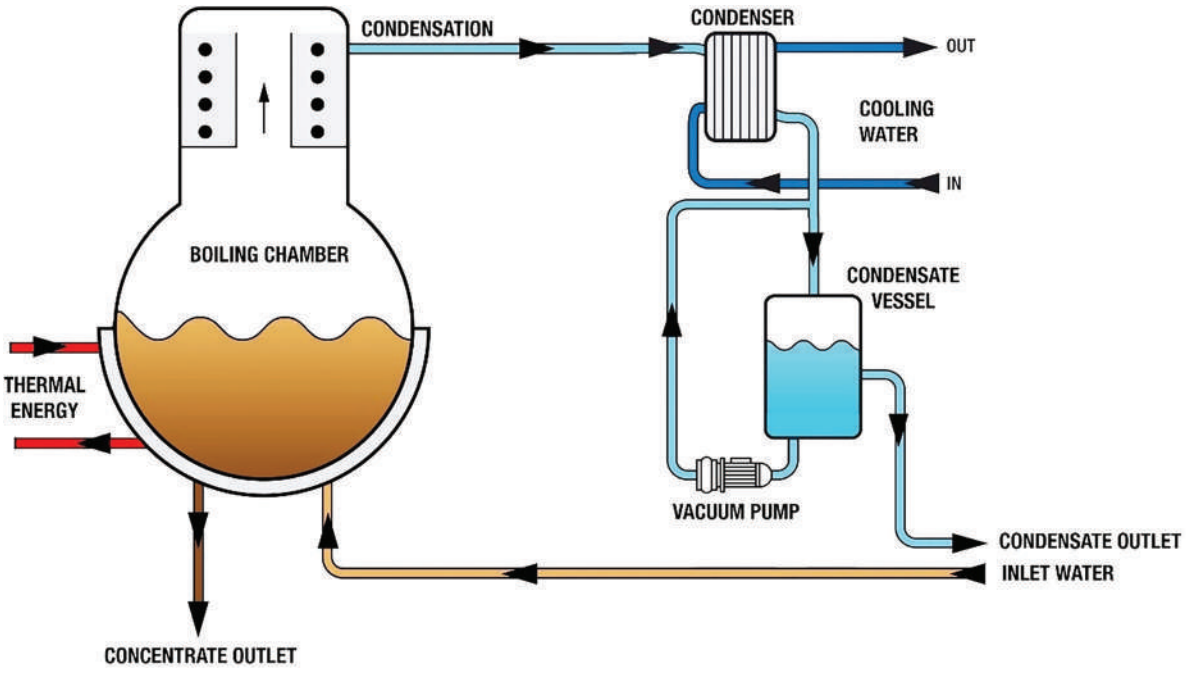
ECO DRY concentrators are designed to obtain semi-solid concentrates, as well as to recover raw materials dissolved in wastewater.
Powered by thermal energy such as hot water or steam.

Picture for illustrative purposes only

KEY FEATURES

- Fully flanged boiling vessel with horizontal design
- Automatic product loading and distillate discharge
- Jacketed heat exchanger (not in contact with the wastewater)
- Optional: internal screw, allowing a continuous mixing of the product inside the boiling vessel and the easy extraction of the concentrate at the end of the cycle
- External plate exchanger for condensing steam (distillate)
- Vacuum circuit for vacuum operation
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Plug & Play installation
- Compact structure
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

PROCESS SCHEME



ECO DPM SE

DPM SE 10.000 – 200.000

Flow rate from 417 to 8.222 l/h

ECO DPM SE Series

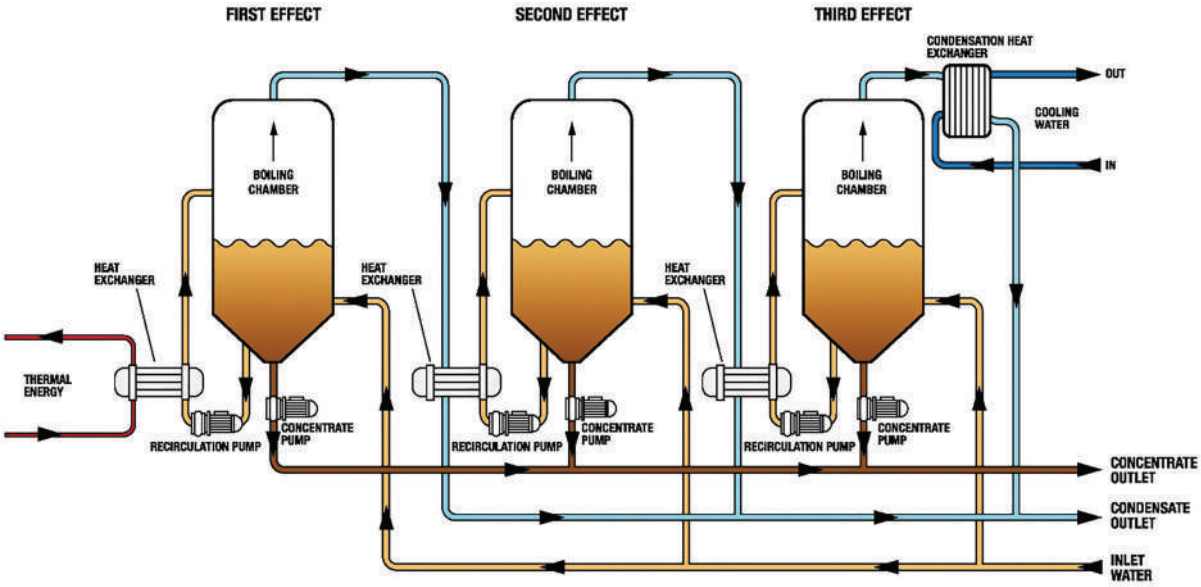
The DPM SE series vacuum evaporators are designed for the concentration of large volumes of water-based solutions and solutions with high salt concentrations. Powered by thermal energy such as hot water or steam.
Energy savings thanks to the possibility of multiple-effect configuration.

KEY FEATURES

- Fully flanged boiling vessel with vertical design
- Automatic product loading, distillate and concentrate discharge
- Forced circulation external heat exchanger
- External plate exchanger for condensing steam (distillate)
- Vacuum circuit for vacuum operation
- Optional: secondary group for vacuum circuit cooling
- Automatic antifoam dosage circuit
- Modular configuration, mono or multiple stage
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

Picture for illustrative purposes only

PROCESS SCHEME



Electric/hybrid operation

ECO CMV SE

CMV SE 20.000 – 100.000

Flow rate from 833 to 4.166 l/h

ECO CMV SE Series

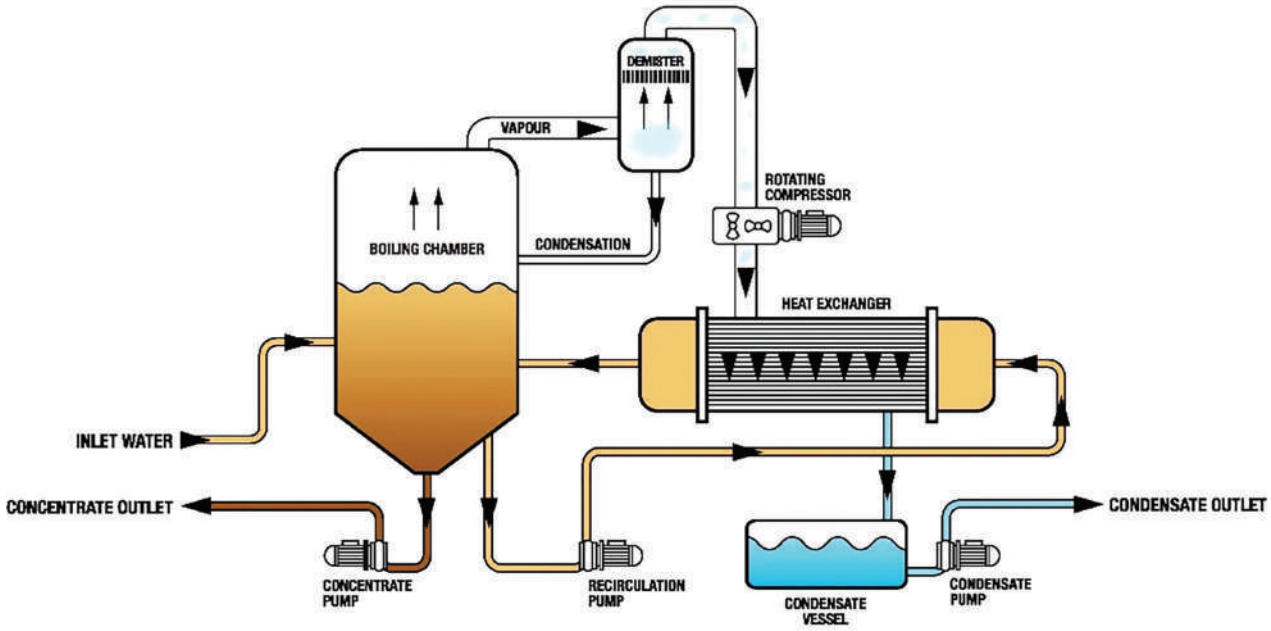
The CMV SE series evaporator is a mechanical vapour recompression (MVR) evaporator with forced circulation.
Low power consumption thanks to the compression of the evaporated liquid by a compressor.

Picture for illustrative purposes only

KEY FEATURES

- Boiling vessel with vertical design and conical bottom
- Automatic product loading, distillate and concentrate discharge
- External heat exchanger, with forced circulation
- Maximum energy efficiency thanks to mechanical vapour recompression technology
- PLC control, simple and intuitive Touchscreen operator panel
- Fully automated (24/7 cycle), without presence of operator, minimal maintenance

PROCESS SCHEME



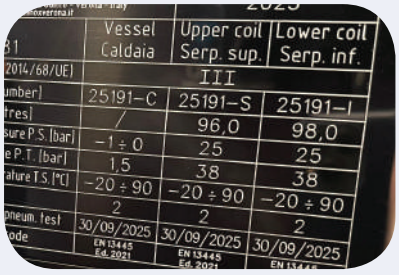
The vacuum evaporator for Eco-Techno

The highlights of an original Eco-Techno evaporator

Certified welding carried out by qualified personnel

Circuit flanging for easy maintenance

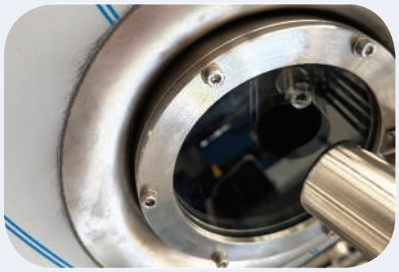
High-quality components



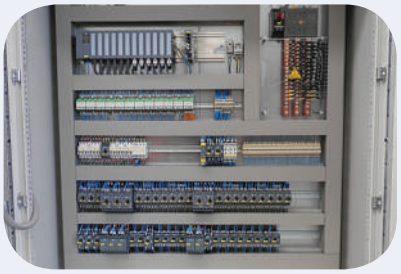
Certified materials and components

Raw materials of European origin

BE WASTEWATER FREE

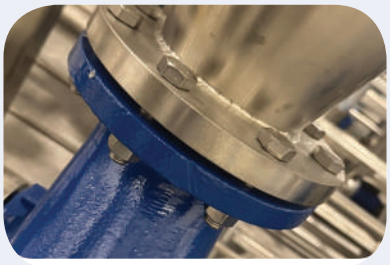


Monitoring and accessibility solutions



Internal programming and automation

Special care to welds to reduce corrosion



Optimised sizing to minimise downtime

Attention to detail and highest build quality

Materials

Characteristics of the materials used in Eco-Techno

AISI 316 and AISI 316 L steel

Eco-Techno standard construction materials. Austenitic steels, weakly alloyed, non-hardenable and non-magnetic.
The AISI 316L version is characterised by its low carbon content. Suitable for treating: acid liquids with low chloride and fluoride content, alkaline liquids.

SAF™ 2507 is a super duplex stainless steel. This type of steel is characterised by excellent resistance to chloride corrosion, combined with high mechanical strenght. SAF™ 2507 is particularly suitable for use in aggressive environments such as hot chlorinated seawater and acidic media containing chlorides.

Sanicro® 28 is a multi-purpose austenitic stainless steel widely used for applications in corrosive environments.

Titanium

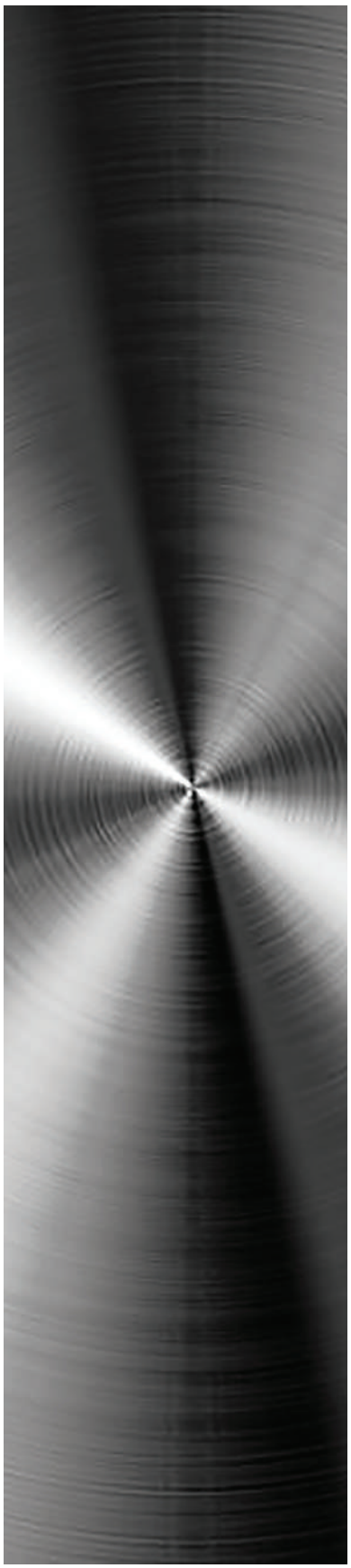
For applications involving corrosive waste, such as chromic acid.

Silicon carbide

Synthetic material with high chemical resistance.

Hastelloy

Nickel-based alloy with high resistance to hydrochloric acid, aluminium chloride and strong reducing agents in general.



Our «Smart Cleaning» concept
Characteristics of the materials used in Eco-Techno

To best preserve our evaporators, we have developed the concept:

«Smart Cleaning»

An automatic washing system for cleaning the boiling vessel and heat exchanger, programmable from the control panel. It does not require supervision or the performance of manual operations that are hazardous to the operator and the environment.

Thanks to this application, you can avoid annoying situations such as:

- Inability to discharge the concentrate;
- Frequent clogging of the pumps;
- Reduction in the treatment capacity of the evaporator.

SAFE

AUTOMATIC

EFFICIENT

The vacuum evaporator for Eco-Techno

Customised solutions for treating complex wastewater

A COMPLETE SERVICE FOR OUR CUSTOMERS

LABORATORY

Our R&D laboratory offers consulting and development of solutions for wastewater treatment.

»

«WE ALWAYS START FROM THE CUSTOMER'S OBJECTIVE TO FIND THE BEST POSSIBLE SOLUTION»

»

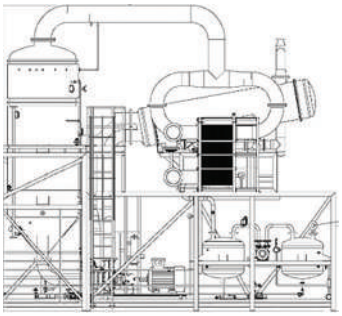
«WE BELIEVE THERE IS NO BEST TYPE OF EVAPORATOR, BUT THERE IS ALWAYS THE BEST SOLUTION»

PILOT TEST

R&D is equipped with heat pump and thermal pilot units for testing the technology at the customer's premises or at our headquarter.

DESIGN AND PRODUCTION

The technical department, with mechanical designers and engineers, develops each single project, which is then manufactured by our in-house production team.



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«WE DO NOT ACCEPT COMPROMISES ON TECHNOLOGICAL CHOICES AND QUALITY»

TESTING

Our technicians test the evaporators before delivery, following a precise testing protocol, even in the presence of the customer.

SERVICE

A team of specialised technicians and mobile workshops guarantee assistance, maintenance and the supply of spare parts.

»

«CUSTOMER SATISFACTION IS OUR PRIORITY»

VACUUM EVAPORATION SYSTEMS

VACUUM EVAPORATORS AND CONCENTRATORS SINCE 1984

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