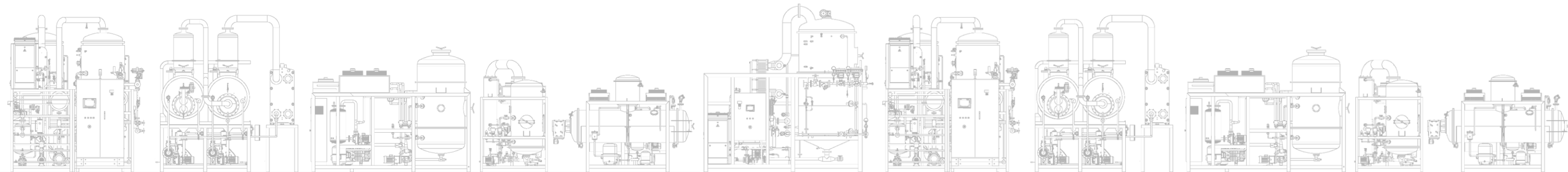


ECO-TECHNO

VACUUM EVAPORATORS AND CONCENTRATORS SINCE 1984



BE WASTEWATER FREE



Who we are



We are an Italian company, active since 1984, with more than 3,500 evaporators installed worldwide.

We are manufacturers of **VACUUM EVAPORATORS-CONCENTRATORS & CRYSTALLIZERS**

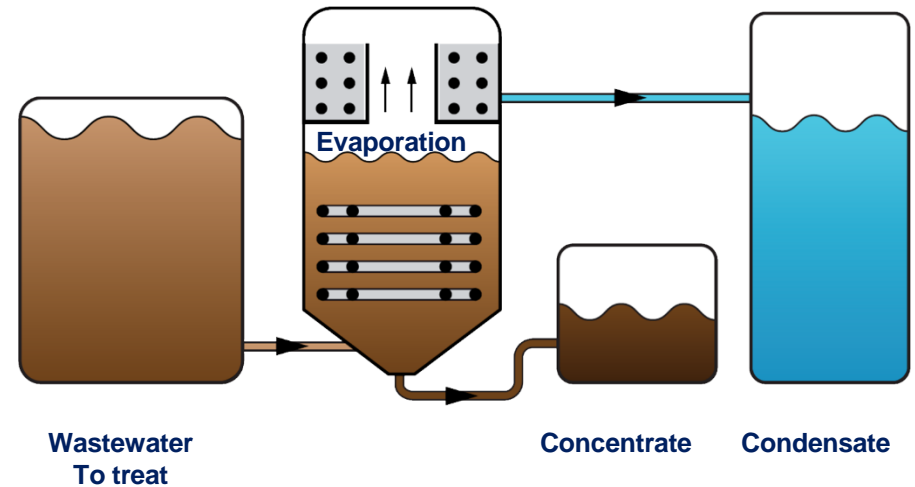
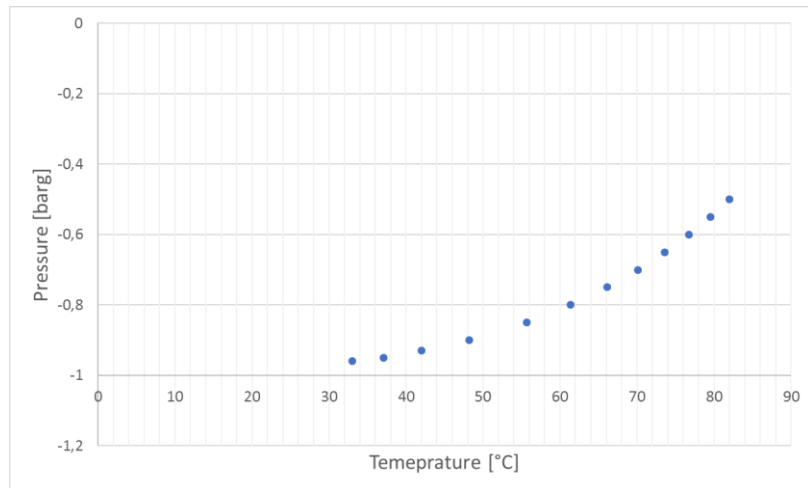
FOR THE INDUSTRIAL WASTEWATER TREATMENT.



Our Technology: The evaporation

The evaporation is a physical process that separates the water contained in a solution. It allows to treat wastewater in a clean, efficient and safe way.

We perform this principle at a lower pressure than the atmospheric level (vacuum), so that we can recover energy in many ways by using different technologies.



Our products



Our evaporators are:

- Completely **automated** and **operative h24/7**, no need for an operator;
- Suitable for both **indoor** and **outdoor** installation;
- Made up of **modular** and **structurally compact package units**;
- Built with **high quality and different materials** (AISI 316, AISI 316L as standard, SAF2507, 904L, SN28, Titanium), depending on the effluent to be treated;
- equipped with a **simple and intuitive** operator panel and PLC control;
- eligible for the benefits of **Industry 4.0**

Our products

Heat pump evaporators:

- Powered by electrical energy;
- They make use of the principle of the Heat Pump;
- Throughput: from 200 to 20.000 L/day.



Thermal evaporators:

- Powered by external heat sources (hot water, steam or diathermic oil);
- Throughput : from 500 to 200.000 L/day.



Mechanical Vapour Recompression evaporators:

- Powered by electrical energy;
- They make use of the forced circulation of the vapour through a mechanic compressor, to increase the thermal energy of the vapour and heat the water-based solution;
- Throughput: from 7.000 to 90.000 L/day.



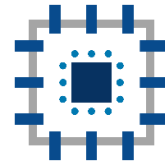
Applications



**Food &
Beverage**



**Chemicals &
Pharmaceuticals**



**Electronics &
Semiconductors**



**Mechanical
processing &
Die-Casting**



**Packaging &
Ink**



**Waste
Disposal**



**Leachate
from landfills**



**Biofuel &
Biogas**



**Galvanic &
Surface
Treatment**

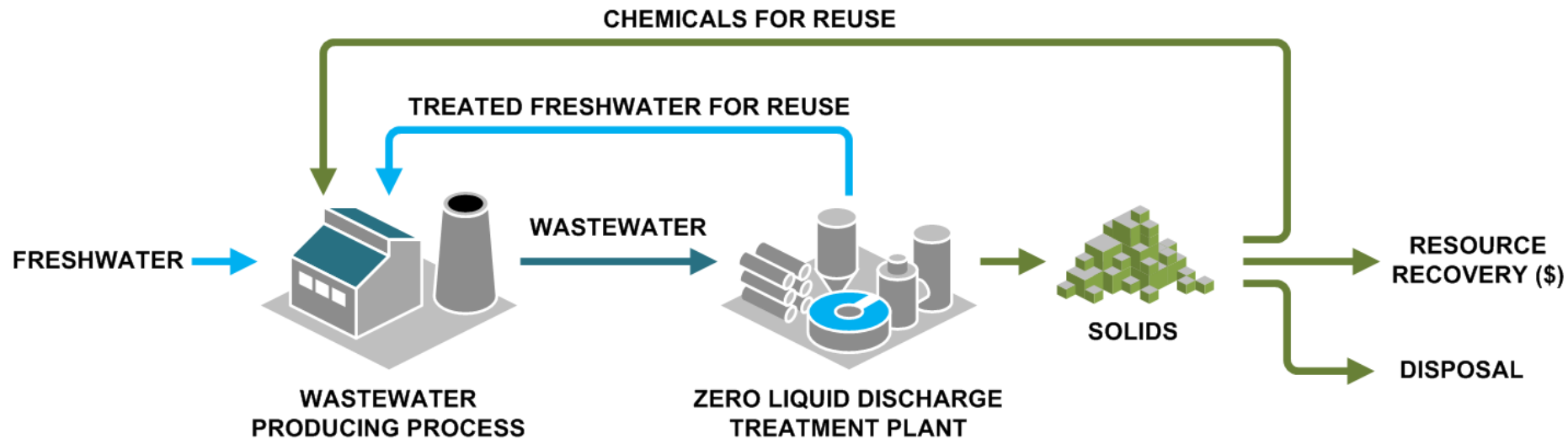


**Industrial
painting**

ZLD GOAL FOR ECO-TECHNO

Zero Liquid Discharge means:

- total recovery and reuse of the treated water (**95-98%**);
- concentrate (**2-5%**) as re-usable raw material or to disposal;
- no water discharge.



The advantages of the vacuum evaporators



→ Significant **cost savings**; minimized maintenance and consumable costs; components recovery in the concentrate;



→ Water recovery and environmental sustainability;



→ Possibility to reach the ZLD (Zero Liquid Discharge):
Total recovery and reuse of distillate,
reduction of use of water from other sources,
no water discharge;



→ Quick Pay-back.

Our evaporator models



ECO DPM
Thermal multiple effect
evaporator



ECO CMV
Mechanical Vapour
Recompression evaporator



ECO VS-HP
Heat pump evaporator –
Low Temperature

Our evaporator models



ECO VR-WW
Thermal scraped evaporator



ECO DRY-WW
Thermal crystallizer

Our evaporator models



ECO DPM SE
Thermal multiple effect evaporator with
forced circulation



ECO CMV SE
Mechanical Vapour Recompression
evaporator with forced circulation

Our application on METAL FINISHING



Our application on LIQUID WASTE DISPOSAL



Our applications on SALTY WASTEWATERS



THANK YOU FOR YOUR ATTENTION



<https://www.youtube.com/watch?v=8diraKP0e4o>

BE WASTEWATER FREE



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