

**Evaled**<sup>®</sup> Evaporation Technologies

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### Technology

Evaled vacuum evaporators are an effective fluid waste management solution for concentrating wastewater volumes, removing pollutant substances and producing high quality, reusable distillate (ZLD).

This industrial evaporation system is fully automatized. Modular units are low in energy consumption with low CO2 footprint.



watch the video

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For more information visit our website www.evaled.com

### Benefits

disposal cost reduction wastewater volume reduction high quality outlet for recycling and reuse by-products recovery ZLD (Zero Liquid Discharge)

### **Specifications**

skid-mounted modular units highly automated, 24/7 operation ready to use (Plug & Play) monitoring by remote control minimum maintenance quality certification ISO 9001/2015

### Reliability

All evaporators undergo a Factory Acceptance Test (FAT) with water before shipment.

# **EVALED**<sup>®</sup> Evaporation Leadership since 1978

An effective ready-to-market solution for concentrating and removing salts, heavy metals and a variety of hazardous components.



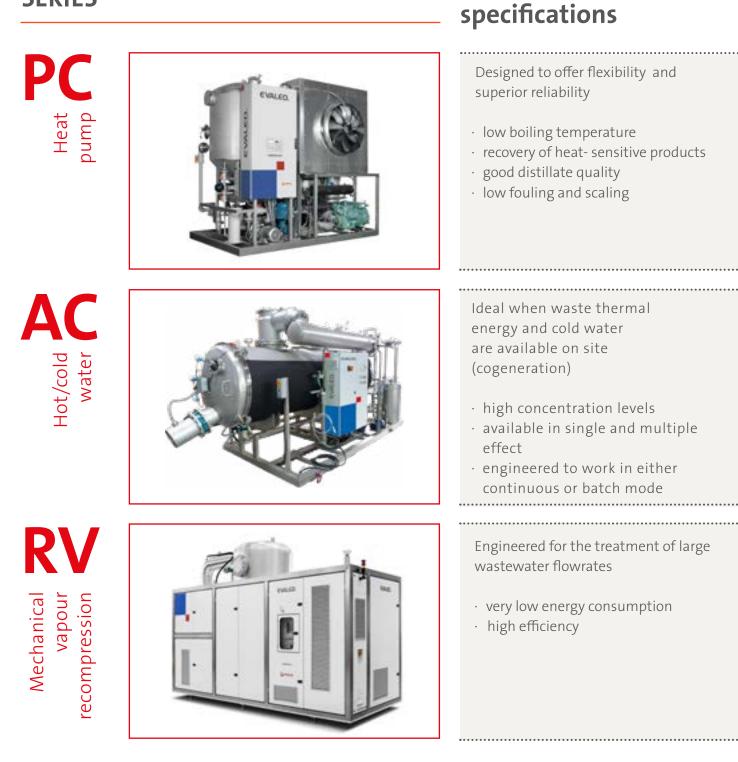


KEYWORDS Reliability, effectiveness in wastewater volume reduction, high quality distillate, water reuse (ZLD).

# **EVALED**<sub>®</sub>

Three different evaporation technologies operating in under vacuum close loop systems to meet your water treatment needs.

### SERIES



## Evaporation Leadership since 1978

Wastewater treatment units with distillate production capacities from 0.1 to 120 m3/day (0.02 - 22 gpm).

\* The F series is currently named EW on technical documentation and commercial offers.

# **EVALED**<sub>®</sub>

### Industries and applications

Mechanical & Surface Treatments (Automotive, Aviation, Appliances, Furniture)
Healthcare (Pharma, Cosmetics)
Chemicals & Detergents
Waste (Incineration, Landfill, Collectors)
Biogas & Biofuels
Photovoltaic & Microelectronics
Food & Beverage
Graphic Arts
Power
Oil & Gas
Mining & Primary Metals
Other industrial processes (Textile, Pulp & Paper, etc.)



Our company has a firm commitment to reduce the CO2 emissions of its technological offer. Careful analysis enable to calculate the CO2 emissions of EVALED solutions.

Contact us for a customized Carbon Footprint Assessment. www.evaled.com

## Service Optional EVA life

The program which makes your unit perfectly performing for its entire life.

EVA Link Remote Monitoring

**EVA Clean** Automatic Washing System

EVA Lab Analysis

EVA Time Warranty Extension

EVA Heart Blower Maintenance

**EVA Parts** Spare parts ready from stock

**EVA Maintenance** Regular Service Pack

EVA Top Full Service Pack

#### Evaporation Leadership since 1978

## Fit-for-purpose materials

The ultimate manufacturing materials to treat even the most aggressive effluents	We worked together with renowned materials research centers in order to select the most suitable materials to safely treat aggressive liquids. Resistance to corrosion is a strong feature of every Evaled evaporator, essential when dealing with extremely concentrated liquids.
Austenic stainless steel	Austenic weakly bound structure, non-hardening, non-magnetic. The low percentage of carbon in this alloy reduces the risk of intergranular corrosion at high temperatures. Uses: alkaline liquids, acid liquids (pH>5) with a low percentage of chlorides (e.g., oil emulsions, liquids from flexographic printing).
Superduplex stainless steel	Austenic-ferritic structure, magnetic. The high percentage of chromium gives excellent resistance to localized corrosion. Uses: acidic liquids (pH>4) with high chlorides and metals content (e.g., galvanic wastewater, landfill leachate).
Nickel alloy	<ul> <li>High flexibility Cr-Ni-Mo steel.</li> <li>The low carbon content ensures resistance to the formation of carbides when zones are exposed to thermal variation.</li> <li>It has excellent resistance to localized corrosion, both in oxidizing and reducing environments, even at high temperatures.</li> <li>Uses: very acid liquids (pH&lt;3) with high content of chlorides, fluorides and metal (e.g., anodizing wastewater, special applications).</li> </ul>
Silicon Carbide (SiC) PC type only (KT-Series)	Chemically inert material resistant to almost all agressive substances. It is usually matched with another chemically inert material, PTFE, a fluoride co-polymer used for coating the inner surfaces of the boiling chamber. Uses: aggressive liquids (e.g., pickling wastewater, chromic acid recovery).



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