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For more information visit our website
www.evaled.com

Technology

EVALED evaporators are industrial systems that accelerate the natural evaporation process.

Evaporation is not only a natural phenomenon but also a clean separation technology that has been recognized as a “Best Available Technique” in several wastewater treatment processes.

Benefits

disposal cost reduction
wastewater volume reduction
water recycling and reuse
valuable components recovery
high quality outlet
ZLD (Zero Liquid Discharge)
high level of automation
option for remote control
quality certification (ISO 9001/2008)
Plug & Play (quick installation)

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

An effective solution for concentrating and removing salts, heavy metals and a variety of hazardous components.
Three different evaporation technologies adapted to suit our clients’ water treatment needs.

**SERIES**

- **PC** - Heat pump
- **AC** - Hot/cold water
- **RV** - Mechanical vapour recompression

**specifications**

- power feeding
- vacuum condition
- low boiling temperature
- recovery of heat-sensitive products
- good distillate quality
- low fouling and scaling

- Ideal when waste thermal energy and cold water are available on site (cogeneration)
- high concentration levels

- power feeding
- useful to treat high volumes of wastewater
- low energy consumption

**MODELS**

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<th>specifications</th>
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<td>- power feeding - vacuum condition - low boiling temperature - recovery of heat-sensitive products - good distillate quality - low fouling and scaling</td>
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<td>Ideal when waste thermal energy and cold water are available on site (cogeneration) - high concentration levels</td>
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Wastewater treatment capacities range from 1 to 200 tons per day.
### Materials

**Austenitic stainless steel**

- Austenitic 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>4) with a low percentage of chlorides, oil emulsions, liquids from flexographic printing.

**Superduplex stainless steel**

- Austenitic-ferritic structure, magnetic.
- The high percentage of chromium gives excellent resistance to localized corrosion.
- Uses: acidic liquids (pH>3) with high chlorides and metals content, galvanic wastewater, landfill leachate.

**Nickel alloy**

- High flexibility Cr-Ni-Mo steel.
- The low carbon content ensures resistance to the formation of carbides at zones exposed to thermal variation.
- It has excellent resistance to localized corrosion, both in oxidizing and reducing environments, even at high temperatures.
- Uses: very acid liquids (pH<2) with high content of chlorides, fluorides and metal, anodizing wastewater, special applications.

**Silicon Carbide (SiC)**

- PC type only (KT-Series)
- 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: pickling wastewater, chromic acid recovery and aggressive liquids.

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### Markets and applications

- Mechanical & Surface Treatments (Automotive, Aviation, Appliances, Furniture)
- Healthcare (Pharma, Cosmetics)
- Chemicals
- 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.)

### Reliability

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

Veolia Water Technologies Italia 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

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### Specifications

- Standardized modular units
- Fully automatized
- Low energy consumption
- Low CO₂ footprint

Veolia Water Technologies Italia has a firm commitment to reduce the CO₂ emissions of its technological offer. Careful analysis enable to calculate the CO₂ emissions of EVALED solutions.

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### Evaporation Leadership since 1978

Veolia has 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.

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### EVA Life

- **EVA Clean** Automatic Washing System
- **EVA Lab** Analysis
- **EVA Time** Guarantee Extension
- **EVA Link** Remote Control
- **EVA Heart** Maintenance

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Resourcing the world