Evaporation Solutions for Water & Wastewater Treatment

PRAB and Veolia have partnered to provide you with the best available technology for wastewater treatment.
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.

**Evaled™ Evaporators Are Industrial Systems That Accelerate the Natural Evaporation Process**

Evaled evaporators are **fully automatized, standardized, modular units that are low in energy consumption** and have a **low CO2 footprint**. Capacities range from 1 to 200 tons per day of distillate from wastewater treatment.

**These highly reliable evaporators are effective in reducing wastewater volume and producing a high quality, reusable distillate (ZLD).** They are an effective solution for concentrating and removing salts, heavy metals and a variety of hazardous components. All evaporators undergo a Factory Acceptance Test (FAT) with water before shipment.

**Be Evaled™**

- Disposal cost reduction
- Wastewater volume reduction
- Water recycling and reuse
- Valuable components recovery
- High outlet quality
- ZLD (Zero Liquid Discharge)
- High level of automation
- Option for remote control
- Quality certification (ISO 9001/2008)

Veolia Water Technologies Italia has a firm commitment to reduce the CO2 emissions of its technological offer. Careful analysis enables us to accurately calculate the CO2 emissions of Evaled solutions. Contact us for a customized Carbon Footprint Assessment.

www.evaled.com
EVALED EVAPORATION TECHNOLOGY
REDUCE YOUR WASTEWATER VOLUME & CO2 FOOTPRINT

Evaled Range & Models

Three different evaporation technologies can be adapted to suit our clients’ water treatment needs.

<table>
<thead>
<tr>
<th>PC heat pump</th>
<th>AC hot cold water</th>
<th>RV mechanical vapour recompression</th>
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<tr>
<td>- Energy sources: electricity</td>
<td>- Useful when thermal energy and cold water are available at a low cost (cogeneration)</td>
<td>- Energy source: electricity</td>
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<td>- Vacuum condition</td>
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<td>- Useful to treat high volume of wastewaters</td>
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<td>- Low boiling temperature</td>
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<td>- High energy savings</td>
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<td>- Recovery of heat-sensitive products</td>
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<td>- Good distillate quality</td>
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<td>- Low fouling</td>
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<td>- Low corrosion</td>
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<td>- Low capacity</td>
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**MODELS:**
- PC heat pump:
  - F 0.7, F 1.4, F 2.4, F 4, F 6, F 8, F 12, F 24
  - R 0.1, R 0.5, R 1, R 2
- AC hot cold water:
  - F 20, F 40, F 60-2
  - R 3, R 6, R 12
- RV mechanical vapour recompression:
  - F 15, F 40, F 60, F 120
  - N 3, N 6
  - C 200
More Than 3,000 Units Installed Worldwide

Markets & Applications:

- Mechanical & surface treatments (automotive, aviation, appliances, parts for furniture)
- Healthcare (pharma, cosmetics)
- Chemical
- Waste, biogas, biofuels
- Photovoltaic & microelectronics
- Food & beverage
- Graphic arts
- Power
- Oil & gas
- Mining & primary metals
- Other industrial processes

Materials

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 primary feature of every Evaled evaporator, essential when dealing with extremely concentrated liquids.

Austenic Stainless Steel

Uses: alkaline liquids, acidic liquids (pH>4) with a low percentage of chlorides, oil emulsions, liquids from flexographic printing.

Nickel Alloy

Uses: very acidic liquids (pH>2) with high content of chlorides, fluorides and metal, anodizing wastewater, special applications.

Superduplex Stainless Steel

Uses: acidic liquids (pH>3) with high chlorides and metals content, galvanic wastewater, landfill leachate.

Silicon Carbide (SiC) – PC Type Only (KT-Series)

Uses: pickling wastewater, chromic acid recovery, aggressive liquids.

A true performance guarantee ensuring your PRAB equipment achieves the specific results it was designed and manufactured to deliver. And if you need technical support, call us. We are available 24/7.

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