

# EVALED EVAPORATION TECHNOLOGY

REDUCE YOUR WASTEWATER VOLUME & CO2 FOOTPRINT

## Evaporation Solutions for Water & Wastewater Treatment

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



**EVALED**<sup>TM</sup>

**VEOLIA**

Evaporation technology:  
the valuable and natural solution.

WATER TECHNOLOGIES



5801 East N Avenue, Kalamazoo, MI 49048  
Phone: 1-800-968-7722 | Fax: 1-269-349-2477 | sales@prab.com  
**prab.com**



# EVALED EVAPORATION TECHNOLOGY

## REDUCE YOUR WASTEWATER VOLUME & CO2 FOOTPRINT

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](http://www.evaled.com)

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## Evaled Range & Models

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

PC heat pump	AC hot cold water	RV mechanical vapour recompression
<ul style="list-style-type: none"><li>- Energy sources: electricity</li><li>- Vacuum condition</li><li>- Low boiling temperature</li><li>- Recovery of heat-sensitive products</li><li>- Good distillate quality<ul style="list-style-type: none"><li>- Low fouling</li><li>- Low corrosion</li><li>- Low capacity</li></ul></li></ul>	<ul style="list-style-type: none"><li>- Useful when thermal energy and cold water are available at a low cost (cogeneration)</li></ul>	<ul style="list-style-type: none"><li>- Energy source: electricity</li><li>- Useful to treat high volume of wastewaters</li><li>- High energy savings</li></ul>
<b>MODELS:</b> 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	<b>MODELS:</b> F 20, F 40, F 60-2 R 3, R 6, R 12	<b>MODELS:</b> F 15, F 40, F 60, F 120 N 3, N 6 C 200

# FULL SPECTRUM INDUSTRIAL WASTEWATER TREATMENT SYSTEMS

**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 E-valved evaporator, essential when dealing with extremely concentrated liquids.

### Austenitic 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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