

# Evaled™

EVAPORATION TECHNOLOGIES



## Technology

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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 CO<sub>2</sub> footprint.



*watch the video*

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For more information visit our website  
[www.evaled.com](http://www.evaled.com)

## Benefits

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disposal cost reduction

wastewater volume reduction

high quality outlet for recycling and reuse

by-products recovery

ZLD (Zero Liquid Discharge)

## Specifications

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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

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

# EVALED

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).

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# EVALED

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

## SERIES

**PC**  
Heat  
pump

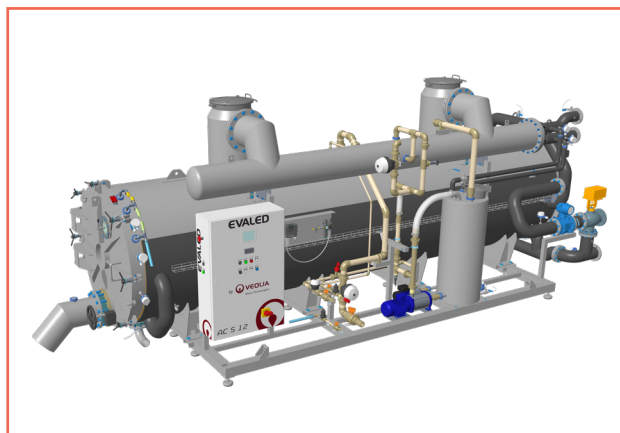


## specifications

Designed to offer flexibility and superior reliability

- low boiling temperature
- recovery of heat- sensitive products
- good distillate quality
- low fouling and scaling

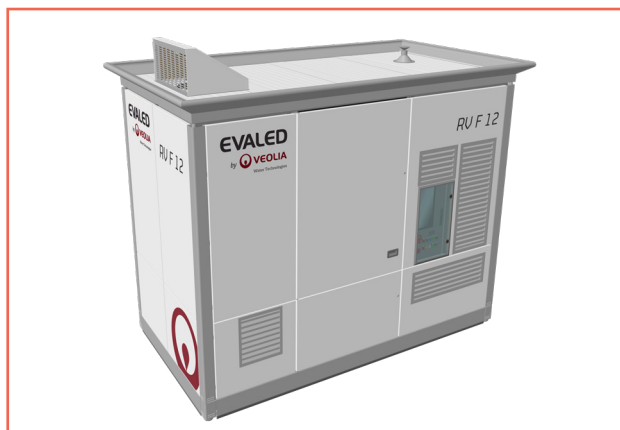
**AC**  
Hot/cold  
water



Ideal when waste thermal energy and cold water are available on site (cogeneration)

- high concentration levels
- available in single and multiple effect
- engineered to work in either continuous or batch mode

**RV**  
Mechanical  
vapour  
recompression



Engineered for the treatment of large wastewater flowrates

- very low energy consumption
- high efficiency

Wastewater treatment units with distillate production capacities from 0.1 to 120 m<sup>3</sup>/day (0.02 - 22 gpm).

## MODELS

m<sup>3</sup>/day

<b>F</b>	0.7	1.4	2.4	4	6	8	12	24
<b>R</b>	150 (l/day)	0.5	1	2				
<b>F</b>	20	40	60					
<b>R/S</b>	3	6	12					
<b>F</b>	12	15	25	40	60	120		
<b>N</b>	6							

# EVALED

## Industries and applications

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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.)

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*Veolia Water Technologies Italia has a firm commitment to reduce the CO<sub>2</sub> emissions of its technological offer. Careful analysis enable to calculate the CO<sub>2</sub> emissions of EVALED solutions.*

Contact us for a customized Carbon Footprint Assessment. [www.evaled.com](http://www.evaled.com)

## Service Optional **EVA life**

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

Hubgrade  
Powered by VEOLIA

**EVA Link** Remote Monitoring  **enabled**

**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



# Fit-for-purpose materials

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The ultimate manufacturing materials to treat even the most aggressive effluents

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

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## 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>5) with a low percentage of chlorides (e.g., oil emulsions, liquids from flexographic printing).

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## Superduplex stainless steel

*Austenitic-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).

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## Nickel alloy

*High flexibility Cr-Ni-Mo steel.*

The low carbon content ensures resistance to the formation of carbides when zones are 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<3) with high content of chlorides, fluorides and metal (e.g., anodizing wastewater, special applications).

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## Silicon Carbide (SiC)

PC type only (KT-Series)

*Chemically inert material resistant to almost all aggressive 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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# Resourcing the world

Veolia Water Technologies Italia | EVALED STBU

Via Pra' di Risi, 3 • 33080 Zoppola (PN) • Italy  
tel. +(39) 0434 516311 • fax +(39) 0434 516310  
[evaled@veolia.com](mailto:evaled@veolia.com) • [www.evaled.com](http://www.evaled.com)