VEOLIA

EVALED®

Hot/cold water scraped vacuum evaporators **AC R**

3
6
12

CO_2 footprint

Waste thermal energy

Ideal in case of cogeneration and fumes heat recovery.

Crystallization

High concentration levels and solid separation.

Benefits

EVALED AC R is the hot/cold water scraped vacuum evaporators line designed for low temperature evaporation and to treat liquids with high content of dissolved solids. Able to manage high grade of fouling and scaling phenomena (viscous liquids, sediment presence).

The line is dedicated to water separation and possible reuse and it is aimed at achieving the maximum disposal cost reduction thanks to the high concentration ratio. Also suitable to treat pre-concentrated liquids.

- Maximum water recovery, minimum quantity of waste to be disposed of
- Useful when thermal energy (steam/hot water) and cold water are available at low cost (cogeneration)
- Suitable for very scaling and fouling liquids
- Skid mounted (small footprint) and ready to use (plug & play unit)
- Fully automatic, continuous operation, minimal manpower
- Constant monitoring by remote control
- User-friendly (intuitive HMI)
- Short delivery time
- Modular and flexible

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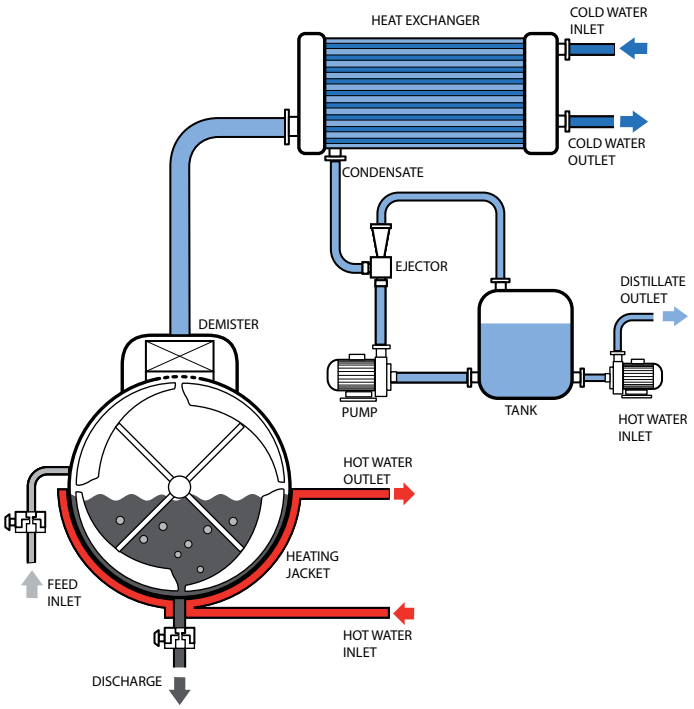
Process diagram
How does EVALED AC R work?

The heat exchange occurs through the surface of the scraped boiling wall. Wastewater, rich in dissolved and suspended solids, is stirred continuously by means of a screw type scraper preventing any fouling of the heat exchanger surface.

Evaporation at a low boiling point is made possible by the vacuum condition generated by the pump and the ejector. The unit operates in batch or continuously depending on the type of concentrate to be obtained: wastewater is treated in continuous, the distillate is separated and simply discharged through a pump, while the concentrate is discharged at the end of concentration cycle.

Evaporation temperature: 30 - 70 °C (86 - 158 °F)
Min. hot water temperature: 80 °C (176 °F)



Available models
Distillate production capacities

AC R 3	2-3 m3/day	0.4 - 0.5 gpm
AC R 6	4-6 m3/day	0.7 - 1.1 gpm
AC R 12	8-12 m3/day	1.5 - 2.2 gpm

The line is manifactured with superduplex steel and it is suitable to treat even the most aggressive liquids. Some typical sectors of application:

Power
Mechanical & Surface Treatments
Waste (Collectors, Incinerators, Landfills)
Microelectronics and Photovoltaics
Chemical
Oil & Gas

Opportunity for heat pump device when hot/cold water are not available on site.

Service Optional

EVA life

Your technology. Always powerful.
The program which makes your unit perfectly performing for its entire life.

EVA Link
Remote Control

EVA Lab
Analysis

Hydrex In case of foaming effluent, Evaled evaporators are designed to be operated with Hydrex antifoams.