

EVALED®

Hot/cold water
forced circulation
evaporators

AC F

20

40

60



CO₂
footprint



Low running costs

allow a return on investment often measured in months thanks to the multiple effect.

Waste thermal energy

ideal in case of cogeneration and fumes heat recovery.

Benefits

EVALED AC F is the line of hot/cold water and forced circulation vacuum evaporators designed to treat liquids with high content of dissolved solids at low temperature, with the minimum fouling and scaling index.

The line is dedicated to water separation and possible reuse.

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

High quality of recovered water suitable for reuse (with distillate conductivity meter for an indirect measure of quality)

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

Process diagram

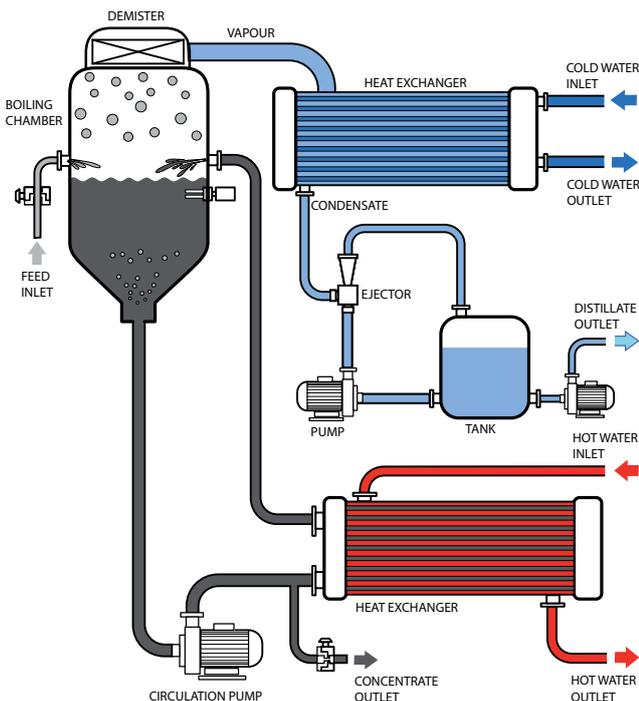
How does EVALED AC F work?

High efficiency forced circulation shell & tube heat exchanger with horizontal tubes and exchanged energy by hot/cold water allows to concentrate wastewater up to the salts solubility limits and to manage scaling and fouling phenomena.

Evaporation at a low boiling point is made possible by the vacuum condition generated by the pump and the ejector. Wastewater is treated in continuous, distilled water and concentrate are separated in continuous. The distillate is discharged through a pump and the concentrate through a valve, according to a pre-set timer, when the desired concentration level is achieved.

Evaporation temperature: 30 - 70 °C (86 - 158 °F)

Min hot water temperature: 80 °C (176 °F)



Available models

Distillate production capacities

| | | |
|---------|---------------------------|---------------|
| AC F 20 | 15-20 m ³ /day | 2.7 - 3.7 gpm |
| AC F 40 | 30-40 m ³ /day | 5.5 - 7.3 gpm |
| AC F 60 | 50-60 m ³ /day | 9.2 - 11 gpm |

The line is available in different materials to treat liquids containing dissolved salts, organic compounds and even the most aggressive salted wastewaters (chlorides), coming from:

Waste (Collectors, Incinerators, Landfills)

Power

Biogas & Biofuels

Mechanical & Surface Treatments

Food & Beverage

Mining and Primary Metals

Oil & Gas

Service Optional

EVA life

Your technology. Always powerful.

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

EVA Clean

Automatic Washing System

EVA Link

Remote Control

EVA Lab

Analysis

Hydrex

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