

EVALED AC F

Hot/cold water forced circulation evaporators

EVALED AC F is the line of hot 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 from industrial liquid solutions.

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

- Waste (Collectors, Incinerators, Landfills)
- Power
- Biogas & Biofuel
- Mechanical & Surface Treatments (Automotive, Aviation)
- Food & Beverage
- Mining and Primary Metals
- Oil & Gas

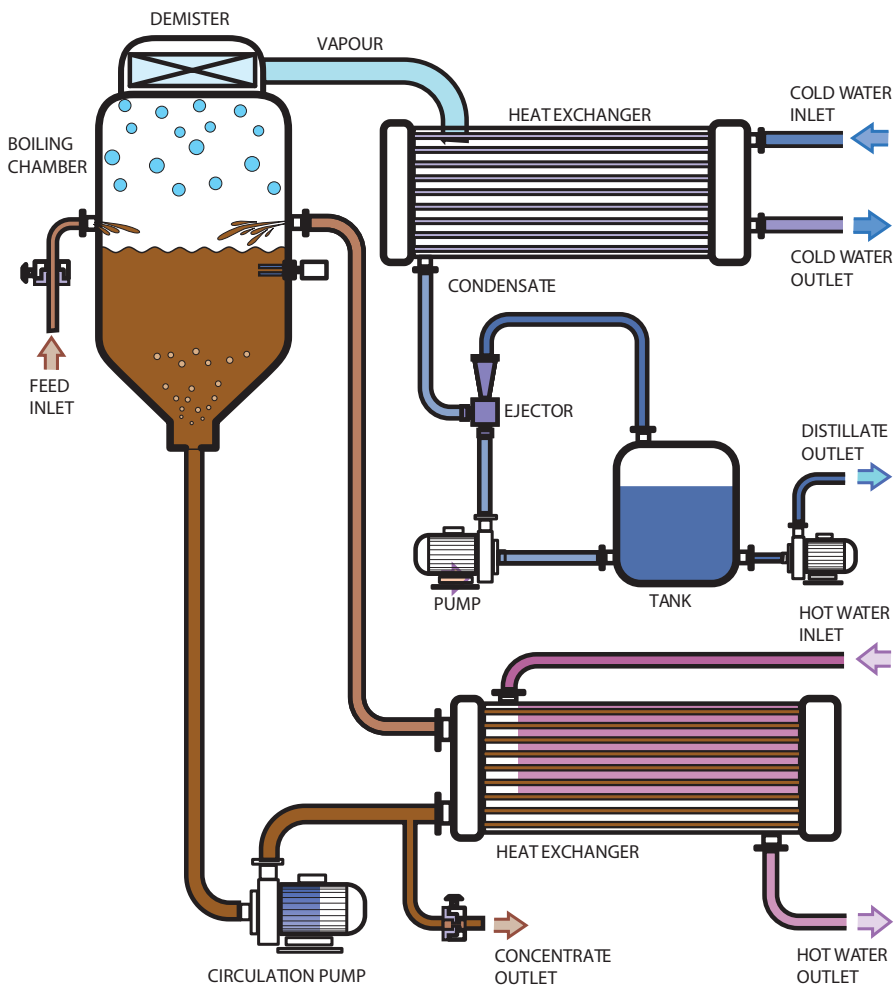
BENEFITS

- 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
- Complete necessary instrumentation and remote control
- User-friendly (intuitive HMI)
- Heat pump device available for the production of hot/cold water
- Short delivery time
- Modular and flexible



**Low running costs
allow a return on
investment often
measured in months.**

Process Diagram. How does 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

Min hot water temperature: 80 °C

AVAILABLE MODELS

• AC F 20	15-20 ton/day	4500-6500 ton/year
• AC F 40	30-40 ton/day	7500-13000 ton/year
• AC F 60-2	50-60 ton/day	15000-20000 ton/year

EVA-life

Your technology. Always powerful.

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



EVA-Clean Automatic Washing System

The integrated chemical cleaning system allows a considerable reduction of maintenance and a complete reliability of the unit.



EVA-Link Remote Control

The remote control access allows immediate support and troubleshooting, periodical unit check-up, report and parameters optimization, periodical back-up of the unit data and software modification.



EVA-Lab Analysis

Inlet effluents analysis allows the client to be aware of effluent changes, if any, and to optimize the results by resetting the unit.

Hydrex

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