

# EVALED®

Mechanical vapor  
recompression (MVR)  
forced circulation  
evaporators

# RV F

10  
15  
25  
40  
60  
120



CO<sub>2</sub>  
footprint



## Reliability

low maintenance,  
remote control.

## Energy efficiency

very low energy  
consumption.

## Benefits

**EVALED RV F is a range of mechanical vapor recompression evaporators designed to achieve the most reliable heat exchange with the minimum fouling and scaling.**

The line is dedicated to water separation and possible reuse from high salty wastewater (ZLD).

Maximum water recovery, minimum quantity of waste to be disposed of

High quality of recovered water suitable for reuse

Very low energy consumption

Suitable for fouling and scaling liquids

Modular and flexible

Short delivery time

User-friendly (intuitive HMI)

Skid mounted (small footprint) and ready to use (plug & play)

Fully automatic, minimal manpower

Constant monitoring by remote control

Minimum maintenance

## Process diagram

How does EVALED RV F work?

High efficiency forced circulation shell & tube heat exchanger with horizontal tubes allows wastewater concentration up to the salts solubility limits and to manage also suspended crystals.

**The MVR is the lowest energy consumption evaporation technology. Wastewater is constantly treated: the distillate and the concentrate are continuously separated and then simply discharged through a pump. Heat is recovered by cooling the two outlet streams using the inlet effluent.**

**Electrical specific consumption:  
45 - 50 kWh/m<sup>3</sup> (0.17 - 0.19 kWh/gal)**

## Available models

Distillate production capacities

|          |                             |               |
|----------|-----------------------------|---------------|
| RV F 10  | 8-10 m <sup>3</sup> /day    | 1.5 - 1.8 gpm |
| RV F 15  | 12-16 m <sup>3</sup> /day   | 2.2 - 2.9 gpm |
| RV F 25  | 20-25 m <sup>3</sup> /day   | 3.7 - 4.6 gpm |
| RV F 40  | 30-40 m <sup>3</sup> /day   | 5.5 - 7.5 gpm |
| RV F 60  | 50-60 m <sup>3</sup> /day   | 9.2 - 11 gpm  |
| RV F 120 | 100-120 m <sup>3</sup> /day | 18.5 - 22 gpm |

Available in different materials to treat different effluents containing dissolved salty, organic compounds and even the most aggressive salted wastewater (high chlorides content), produced by various industries:

Mechanical & Surface Treatments

Microelectronics and Photovoltaics

Chemical

Healthcare (Pharma and Cosmetics)

Waste (Collectors, Incinerators, Landfills)

Power

Mining & Primary Metals

Food & Beverage

## 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**

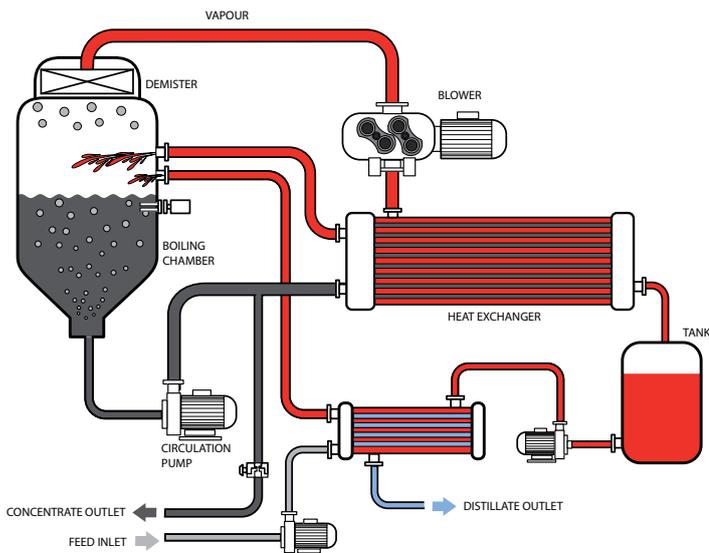
Remote Control

**EVA Lab**

Analysis

**EVA Heart**

Maintenance



**Hydrex**

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