

EVALED RV F

Mechanical vapor recompression (MVR) forced circulation evaporators

EVALED RV F is a range of mechanical 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 saline solutions at high concentration.

Available in different materials to treat different effluents containing dissolved salts, organic compounds and even the **most aggressive salted wastewaters** (chlorides), produced by:

- Mechanical & Surface Treatments (Automotive, Aviation)
- Microelectronics and Photovoltaics
- Chemicals
- Healthcare (Pharma and Cosmetics)
- Waste (Collectors, Incinerators, Landfills)
- Power
- Mining & Primary Metals
- Food & Beverage

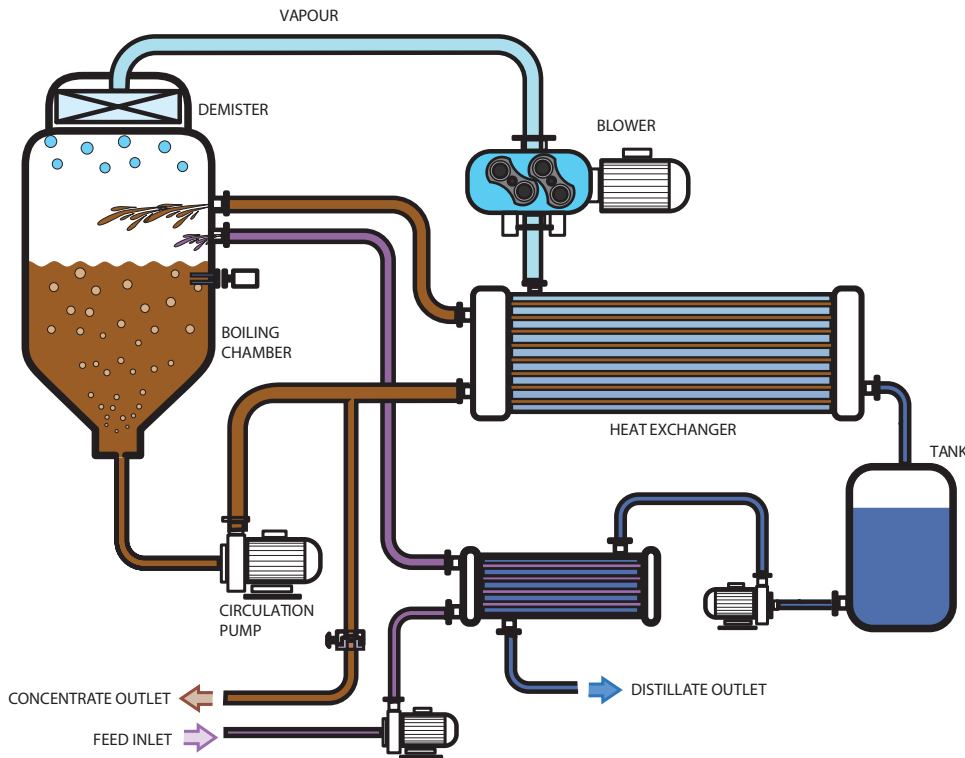
BENEFITS

- 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
- Complete necessary instrumentation and remote control
- Reduced maintenance



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

Process Diagram. How does 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.

Low energy consumption made possible by operating with mechanical vapour recompression: wastewater is constantly treated while continually separating water and concentrates and then simply discharged through a pump once heat is recovered by cooling the two outlet streams using the inlet effluent.

Electrical specific consumption:
45 - 50 kWh/ton

AVAILABLE MODELS

• RV F 3	8-10 ton/day	2400-3200 ton / year
• RV F 15	12-16 ton/day	3000-5000 ton / year
• RV F 40	30-40 ton/day	7000-12000 ton / year
• RV F 60	50-60 ton/day	15000-20000 ton / year
• RV F 120	100-120 ton/day	30000-40000 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.



EVA-Hearth Maintenance

Blower replacement and quick interventions to keep the unit at the top of its performances, reducing downtime and optimizing time schedules for maintenance.

Hydrex

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

SERVICE OPTIONAL