

EVALED RV C

Mechanical Vapor Recompression (MVR) natural circulation evaporators

EVALED RV C is a range of high capacity mechanical recompression evaporators designed with a falling film heat exchanger to maximize thermal recovery.

The RV C line is designed to obtain:

- water separation and possible reuse from water-based solutions at medium concentration
- concentration of heat sensitive liquids with possible product recovery
- disposal cost reduction
- pre-concentration before crystallization

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

- Chemicals
- Food & Beverage
- Waste (Collectors, Incinerators, Landfills)
- Power
- Mining & Primary Metals

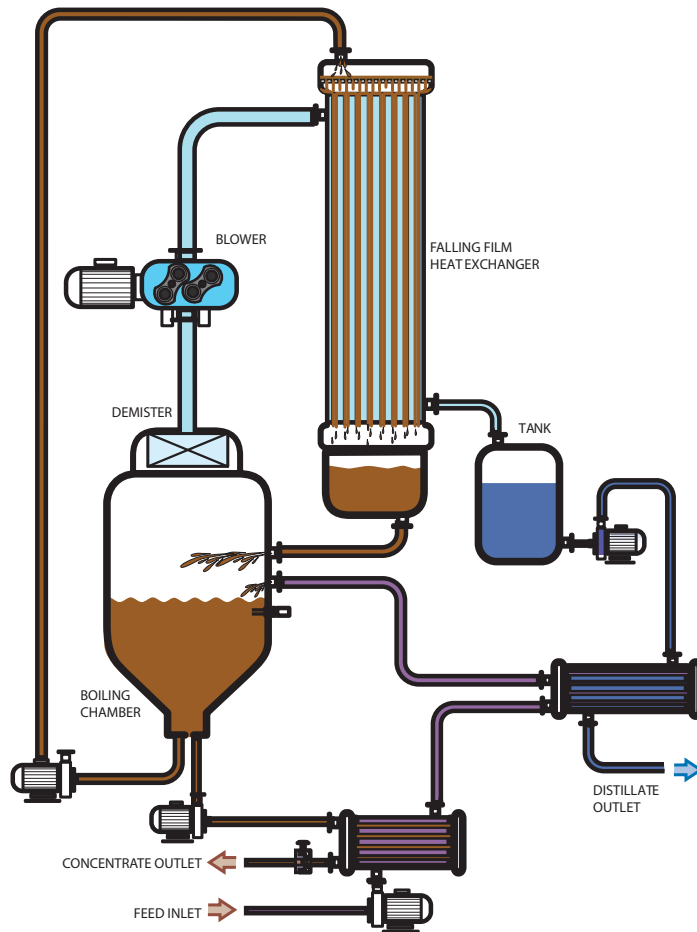
BENEFITS

- High quality of recovered water suitable for reuse
- Minimum energy consumption
- Suitable for heat sensitive products
- Skid mounted, modular and flexible, short delivery time
- Large capacity with a small footprint
- Fully automatic, minimal manpower
- Complete necessary instrumentation and remote control
- User-friendly (intuitive HMI)

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



Process Diagram. How does RV C work?



High efficiency heat transfer with a falling film heat exchanger allows to concentrate low scaling and even heat sensitive solutions thanks to the very low difference of temperature between the boiling liquid and the heating media, as well as the short residence time in the heating zone. Minimum energy consumption operating with mechanical vapour re-compression technology: wastewater is constantly treated distillate and concentrate are separated in continuous and then simply discharged through a pump after cooling down for heat exchange with the entering wastewater.

Electrical specific consumption:
26 - 30 kWh/ton

AVAILABLE MODELS

- RV C 200 150-200 ton/day | 45000-65000 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.