



Condorchem
Enviro Solutions



ENVIDEST MVR FC TF

Electrical Vacuum Evaporator by Mechanical Vapor Recompression

The ENVIDEST MVR FC TF series vacuum evaporator is designed to treat aqueous-based streams with a low contaminant load, standing out for its energy efficiency, based on Mechanical Vapor Recompression (MVR) technology. The recirculation pump, operating at high speed, plays a crucial role in preventing the formation of scale in the main shell-and-tube heat exchanger.

The operation of the equipment is fully automatic - 24 hours a day.

FEATURES

- Technology
- Single/Multi-Effect
- Vacuum
- Evaporation Temperature
- Evaporation Vessel
- Droplet Separator
- Heat Exchanger for Heating
- Vacuum System
- Control Unit*
- Protection:
- Electricity Supply**
- Standard Manufacturing Material
- Special Anti-corrosion Manufacturing Material***

- Mechanical Vapor Recompression (MVR)
- Forced Circulation (FC)
- Single-Effect
- ≈ 750 mbar
- ≈ 90-94 °C
- Conical bottom
- Mesh Demister
- Shell and tube
- Turbocompressor
- PLC Siemens with HMI touch screen
- IP54
- 400 V III + PE 50 Hz
- 1.4401/1.4404 (AISI 316/AISI 316L)
- 1.4410 (Superduplex 2507) / Ti

* Different PLC manufacturer available on request
** Different voltage supply available on request

TECHNICAL DATA

Parameter	Unit	1000	2000	3000	4000
Capacity*	L/h	1042	2083	3125	4166
Electricity Consumption**	kWh/m³	35	35	35	35
Length	mm	8500	9450	12450	12450
Width	mm	2350	2350	2450	2450
Height	mm	5350	5480	5480	5480

* Data refer to clean water when working continuously in standard conditions (T = 20 °C, P = 1013 mbar).
** Electricity consumption expressed in kWh per m3 of distillate produced.

DIAGRAM

