



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/m ³	35	35	35	35
Length	mm	8500	9450	12450	12450
Width	mm	2350	2350	2450	2450
Height	mm	5350	5480	5480	6500

* 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

