

MECHANICAL VAPOR RECOMPRESSION EVAPORATOR (RV F)



Shown: RV F4000 FF 4

The Mechanical Vapor Recompression Evaporator is a fully automated, compact, skid mounted treatment system that allows recovery of 90% or more of a wastewater stream for recycling, concentrating contaminants in 10% or less of the original volume. The system allows efficient and cost effective separation of water from other contaminants using sophisticated blower technology. A self-contained design allows continuous, reliable, automatic operation on a 24/7 basis. Separates oils, salts, and other organic and inorganic compounds from wastewater.

Specifications:

- 3,963 to 31,700 gallon per day models available
- Low specific energy consumption: .15-.17 kWh/gal distillate
- Skid mounted design, ready to install
- Factory-piped, wired, and tested before shipment
- Indoor or outdoor installation

Standard Features

- NEMA 4 powder coated steel control panel
- Siemens PLC-based control system with color touchscreen HMI
- Stainless steel frame
- 316L or Superduplex 2507 critical wetted components
- 316L and polypropylene non-critical wetted components
- Stainless steel blower unit
- Automatic anti-foam injection
- Distillate conductivity meter

Optional Features

- Pre- and post-treatment systems
- Storage tanks for process liquids
- pH adjustment of distillate
- Bactericide metering
- Concentrate transfer pumps
- Concentrate density meter
- Concentrate recovery heat exchanger
- Distillate transfer pumps
- Automatic chemical washing
- Custom configurations by request



Shown: Original wastewater sample (center), produced concentrate (left), 95% reusable distillate (right)

ORDERING INFORMATION

RV F	Mechanical Vapor Recompression Evaporator			
	Capacity (Choose One)			
	4000	3,963 Gallons per Day		
	11000	10,566 Gallons per Day		
	16000	15,850 Gallons per Day		
	32000	31,700 Gallons per Day		
	Wetted Material (Choose One)			
	AA	316L Stainless Steel		
	FF	Superduplex 2507		
	Power Requirements (Choose One)			
	3A	208 VAC / 3 / 60 Hz		
	3B	230 VAC / 3 / 60 Hz		
	4	460 VAC / 3 / 60 Hz		
Example Part Number				
RV F	4000	AA	4	RV F4000 AA 4
RV F	11000	FF	4	RV F11000 FF 4

