

Vapor compression evaporators

EnvoVap PD/1 [30 – 400 l/hr]



The Envovap PD/1 series of evaporators is based on the technology of forced circulation combined with vapor compression and has a capacity of 30-400 l/hr. The system's optimized construction enables a unique combination of high distillate quality, very low operating costs and high efficiency for purified and treated flows, with high operational reliability and accessibility.

The system is designed for completely automated round-the-clock operation controlled via an internal PLC system. All important information is clearly displayed and easy to manage via a touch panel on the front of the machine. The newly developed, high-performance separator sets a new standard for reducing the formation of foam. The integrated, fully automated CIP washing system optimizes accessibility and operational reliability. Accessibility during servicing is made easier as the doors on all sides of the machine provide easy access to components with a service-friendly design.

The Envovap PD/1 series is an excellent investment for purifying contaminated process water from production.

Benefits:

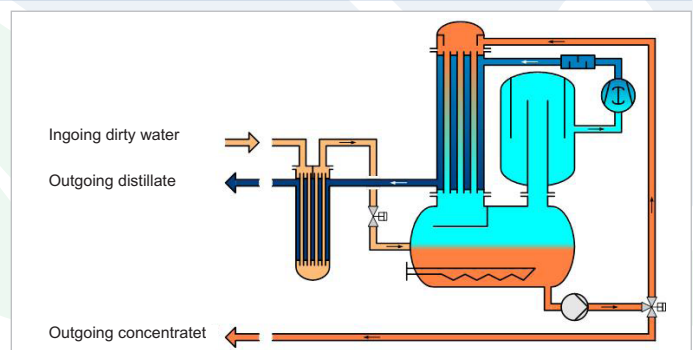
- Very low energy consumption
- Little space required in relation to capacity
- Interior system construction with separate hot and cold zones
- Fully automated round-the-clock operation via integrated PLC control system
- Fully automated system for wash function
- Newly developed function method for very high distillate quality
- Construction produces a high degree of concentrate minimization
- Very high operational reliability and low operator requirements
- Low operating sound level



| PD/1 | 30 | 40 | 60 | 90 | 120 | 160 | 200 | 240 | 300 | 350 | 400 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Capacity l/hr | 30 | 40 | 60 | 90 | 120 | 160 | 200 | 240 | 300 | 350 | 400 |
| Energy consumption kWh/m ³ | 85 | 83 | 80 | 80 | 70 | 70 | 65 | 65 | 60 | 60 | 60 |
| Length, mm | 1 680 | 1 680 | 1 680 | 1 680 | 2 100 | 2 100 | 2 100 | 2 300 | 2 300 | 2 300 | 2 300 |
| Width, mm | 900 | 900 | 900 | 900 | 1 250 | 1 250 | 1 250 | 1 550 | 1 550 | 1 550 | 1 550 |
| Height, mm | 2 180 | 2 180 | 2 180 | 2 180 | 2 350 | 2 350 | 2 350 | 2 500 | 2 500 | 2 500 | 2 500 |

Process diagram

- Ingoing dirty water
- Compressed vapor
- Vaporized dirty water
- Condensation of vapor
- Outgoing concentrate
- Distillate
- Water vapor



Examples of applications



Examples of application fields:

- Rinsing water from different types of processes
- Water-based degreasing and process water from production processes
- Water-based emulsions containing oil
- Contaminated process water containing metal
- Water from cleaning floors
- Vehicle wash water