

EVAPORATORS MODEL ECOCV

Mechanical Vapour Recompression (MVR) Evaporator



APPLICATIONS

Surface Treatment
Die Casting
Oily emulsions
Landfill leachate treatment
Zero liquid discharge

EVAPORATION

Evaporation is a process that starts from a diluted solution and produces distillate water and a concentrate solution. The evaporation process produces clean water from any water solution. Distillate water has a low conductivity that generally can be reused in pro-

INTRODUCTION

ECOCV is a type of evaporation equipment with a low operation cost. ECOCV equipment has the lowest total operation cost with respect to heat pumps and hot water equipments.

duction processes. The concentrated solution can be reused in production processes or disposed as concentrated waste.

MVR

Mechanical Vapour Recompression is an evaporation process that through a mechanically driven blower increases the pressure of the vapour produced.

The blower increases the pressure and the temperature, with a polytropic function.

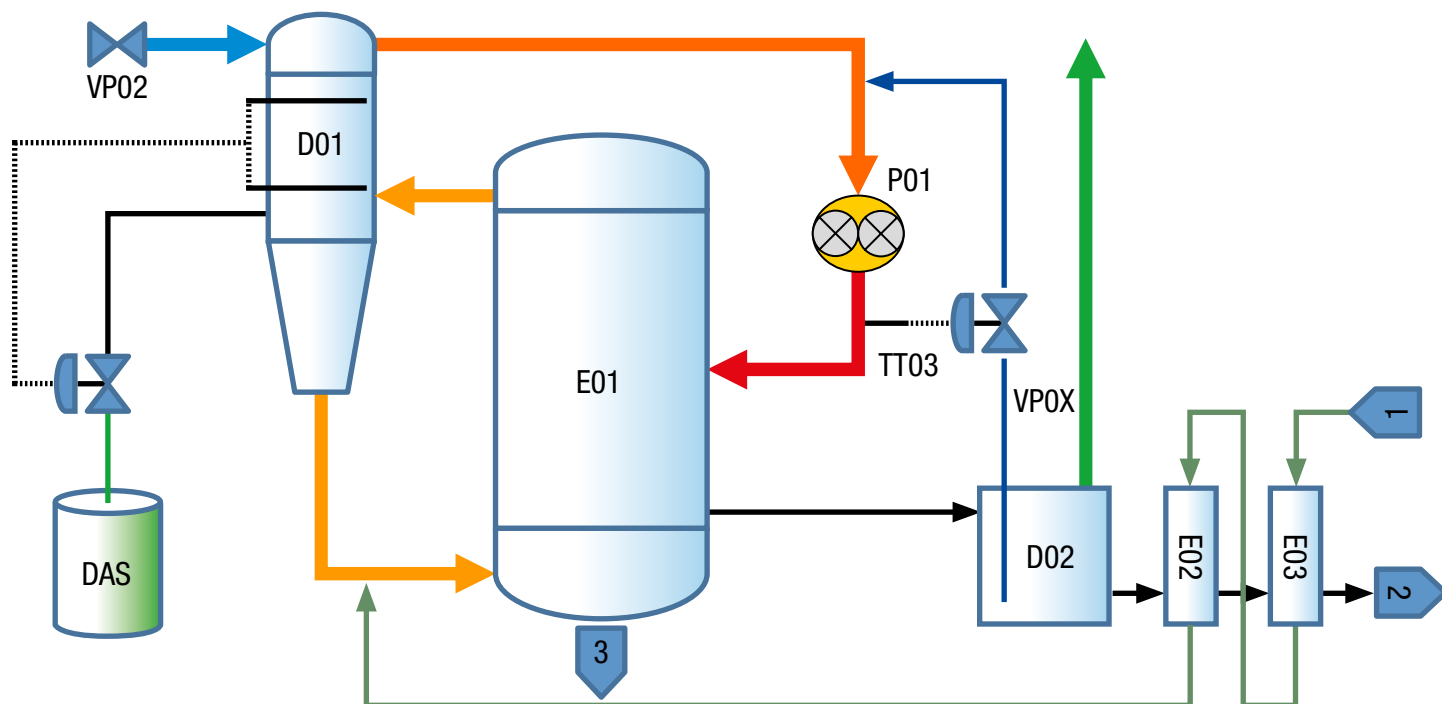
The vapour generated at the beginning of the process is used as the heating medium for the waste solution.

OPERATION COST

ECOCV uses electrical power and the specific power required is 60-40 watts/liter.

| EQUIPMENT | DAILY PRODUCTION [l/day] | HOURLY PRODUCTION [l/h] | POWER [kW] |
|-------------|--------------------------|-------------------------|------------|
| ECOCV-2000 | 2.000 | 100 (22h/24) | 11 |
| ECOCV-4000 | 4.000 | 200 (22h/24) | 15 |
| ECOCV-6000 | 6.000 | 275 (22h/24) | 22 |
| ECOCV-10000 | 10.000 | 450 (22h/24) | 30 |
| ECOCV-15000 | 15.000 | 700 (22h/24) | 55 |
| ECOCV-30000 | 30.000 | 1.400 (22h/24) | 90 |
| ECOCV-50000 | 50.000 | 2.200 (22h/24) | 130 |

* Specific technical information on demand



OPTIONS

- 4 functions control system
- Alkaline-Acid automatic washing system
- Foam control system
- Antifoam automatic dosing
- Heat recovery system from evaporate
- Heat recovery system from concentrate
- Internet connection

CONSTRUCTION MATERIAL

- AISI 316 L/Ti
- Special materials

