



BAHARAN PALAYESH SABZ PARSIAN
envitech

بهاران پالایش سبز پارسیان صدرا

EN-BP EVAPORATORS
DESALT CRYSTALLIZERS

For industrial wastewater treatment

BP-SPS ENVITECH

BP-SPS Envitech is an environmental engineering company offering turn-key solutions in any industrial sector for:

We always ensure that we provide the most efficient process, both in environmental and economical terms. We offer a 360° solution for:



WASTEWATER TREATMENT



ZERO LIQUID DISCHARGE



RESOURCES RECOVERY



DESIGN



INSTALLATION



START UP



MAINTENANCE

EN-BP & DESALT SERIES

The En-BP and Desalt series are one of the most innovative and efficient technologies for industrial wastewater minimization and treatment.

Our evaporators and crystallizers are a clean, safe and very versatile technology with low power and management costs that allow the recovery of high-quality water and other raw materials from industrial effluents.

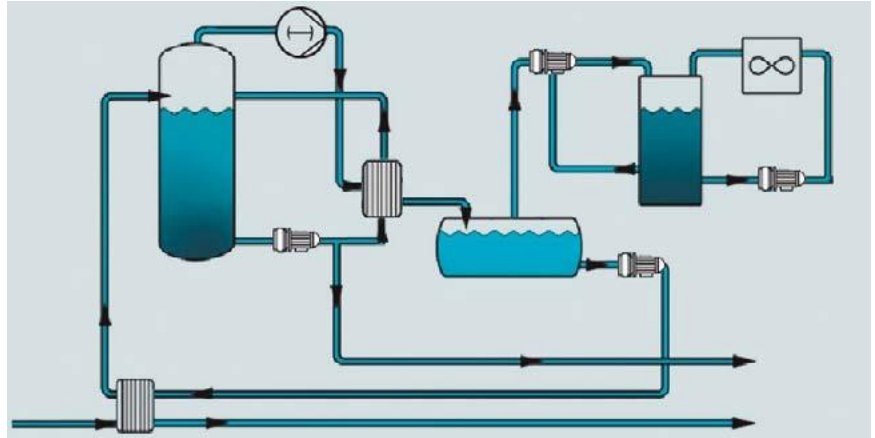
In most cases they also serve as a zero liquid discharge treatment system.

■ The scope of its application is virtually unlimited. The following are some of the usual.

APPLICATIONS:

- Oil emulsions, drilling oils, mould release agents.
- Compressor blow downs, flow washing water.
- Tank and reactor washing water: Chemical, Pharmaceutical, Cosmetics and Perfume Industries.
- Work-baths and washing waters in galvanic processes and surface treatments.
- Penetrating liquids.
- Graphic arts waste (cleaning water, inks, etc.).
- Wastewater treatment plants reject (reverse osmosis, demineralization, etc.).
- Leachates.
- Digestate in biogas plants.

ELECTRICAL Evaporators



EN-BP

Forced circulation evaporator

EN-BP evaporators are a new concept of mechanical vapour recompression forced circulation evaporators. A fast cool start system for preheating the water using electrical resistors, or using steam available.

Vacuum is maintained around 200 mbar and evaporator temperature rises up to 60 °C.

MODEL: ENVIDEST MVR FC

VACUUM PLANT: Evaporator

ENERGY SOURCE: Electricity

TYPE: Mechanical vapour compression

MAIN CHARACTERISTIC: Forced circulation

DAILY PRODUCTION (l/d): 6000 - 48000

HOURLY PRODUCTION (l/h): 250 - 2000

ENERGY CONSUMPTION (kwh/m³): 50

MATERIAL: A-316 L

SPECIAL MATERIAL: SAF/SANICRO/Ti

VESSEL: Vertical

HEAT EXCHANGER: Plate, external

VACUUM SYSTEM: Liquid ring pump

COMPRESSOR: Root pump

EXTERNAL CONDENSATION: Not required

CONTROL: PLC

CIP: Optional



MODEL: MFE
VACUUM PLANT: Evaporator
ENERGY SOURCE: Hot water / steam
TYPE: Thermal
MAIN CHARACTERISTIC: Multiple effect (1,2,3)
DAILY PRODUCTION (l/d): 15000 - 200000
HOURLY PRODUCTION (l/h): 625 - 8500
ENERGY CONSUMPTION (kwh/m³): Depending on model
MATERIAL: A-316 L
SPECIAL MATERIAL: SAF/SANICRO/Ti
VESSEL: Vertical
HEAT EXCHANGER: Shell-tube, external
VACUUM SYSTEM: Liquid ring pump
COMPRESSOR: No
EXTERNAL CONDENSATION: Cooling tower or air condenser
CONTROL: PLC
CIP: Optional

EN-BP MFE

Forced circulation multiple effect evaporator

The EN-BP MFE is a vacuum evaporator operating with an external heat exchanger and forced circulation. This equipment operates using superheated water (W) or steam (V) supply. Condensing system using plate heat exchanger with a cooling water circuit (W).

The advantage of this system consists on recovering the latent heat in all effects. Fully automatic operation of the equipment. Equipment designed to concentrate large amounts of liquid effluents and brines.

