



+34 96 134 06 63

P.I. Fuente del Jarro
Ciudad de Elda, 11
46988 Paterna | Valencia
www.grupovento.com



PROCESS SYSTEM

The evaporator provides good quality water from evaporated water, and it can be used in the process.

The evaporation unit for liquid waste minimization is composed by a simple effect evaporator with an external multi tube heater. This configuration allows an easier cleaning in case of fouling formation.

The evaporated water is leded to a multi tube condenser where it condensates, and then the liquid water is stocked in a tank.

This evaporation unit allows high degrees of concentration in the effluent, although this concentration ratio depends on the feeding product (salts or solids presence). The evaporation steam needs are very low, aprox. 1 kg steam/1 kg evaporated water, with saturated steam at 4 kg/cm².

**Energetic efficiency
and hydric
resources
optimization.**

**It's a Zero Liquid
Discharge system.**

We use cooling water in order to condensate the evaporated water. However the water needs for the pumps refrigeration or vacuum pumps can be assumed by the cooling tower, and the cooling tower can be refilled with the condensed water. We have so a Zero Liquid Discharge system.

However, the consumption of water in this evaporation unit is not a problem because it provides good quality water from the evaporated water. Built according to European standards of machines design CE.

POSSIBLE APPLICATIONS

- | Drilling emulsions water-oil
- | Waste water from detergent fabrication
- | Leachate from rubbish dump
- | Waste water from reverse osmosis plant
- | Washing and regeneration waters from water softeners
- | Waste water from olive pickle production
- | Washing waters from pesticide packages
- | Washing and peeling corn waters
- | Residues from chemical baths
- | Waste water from batteries treatment
- | Washing water from enameling industry
- | Waste water from almond peeling industry
- | Process water from alimentary industry
- | Waste water from dry fruits rehydration
- | Waste water from chemical industry

PLANT EXAMPLES

- | MINIMIZATION plant (reverse osmosis waste water) for **BEFESA** C.C. at Querétaro (México) with a treatment capacity of 10 Tm/h
- | MINIMIZATION plant (Leachate from rubbish dump) for **BGRI** at Valle de escombreras (Cartagena) with a treatment capacity of 2.000 Lts/h
- | MINIMIZATION plant (photographic developing liquid) for **RESER** at Sagunto (Valencia) with a treatment capacity of 500 Lts/h
- | MINIMIZATION plant (almond peeling water) for **SIRVENT ALMENDRAS** at Xixona (Alicante) with a treatment capacity of 6.500 Lts/h
- | MINIMIZATION plant (dry fruits rehydration) for **IMPORTACO** at Beniparrel (Valencia) with a treatment capacity of 500 Lts/h
- | MINIMIZATION plant (waste water from alimentary industry) for **NUTRACITRUS** at Elche (Alicante) with a treatment capacity of 250 Lts/h

