



Condorchem
Enviro Solutions



DESALT LT DRY

Electrical Vacuum Evaporator-Crystallizer by Heat Pump

The DESALT LT DRY series vacuum evaporator-crystallizer is designed to produce solid or semi-solid concentrates, as well as to recover valuable raw materials, such as metals and salts. The equipment operates with electrical energy and its heating and condensation system is based on a heat pump (HP) unit.

This evaporator can be manufactured with a screw conveyor inside the evaporation vessel to homogenize the product during the concentration phase, which facilitates the automatic discharge of the final product.

The operation of the equipment is semi-automatic or automatic (depending on the model) - 24 hours a day.

FEATURES

- Technology
- Single/Multi-Effect
- Vacuum
- Evaporation Temperature
- Evaporation Vessel
- Droplet Separator
- Heat Exchanger for Heating
- Refrigeration Circuit
- Vacuum System
- Control Unit*
- Protection:
- Electricity Supply**
- Standard Manufacturing Material
- Special Anti-corrosion Manufacturing Material***

- Heat Pump (Freon R-513A)
- Single-Effect
- ≈ 60 mbar
- ≈ 35 °C
- Horizontal
- Raschig rings
- External jacket
- Single heat pump unit or primary and secondary heat pump unit (depending on the model)
- Venturi Ejector
- PLC Siemens with HMI touch screen
- IP54
- 400 V III + PE 50 Hz
- 1.4401/1.4404 (AISI 316/AISI 316L)
- 1.4410 (Superduplex 2507)

* Different PLC manufacturer available on request
** Different voltage supply available on request
*** Consult other available material options

TECHNICAL DATA

Parameter	Unit	250	350	500	750	1000
Capacity*	L/day	250	350	500	750	1000
Electricity Consumption**	kWh/m³	270	270	270	270	270
Length	mm	1420	1640	2550	2900	3200
Width	mm	1480	1520	1570	1600	1600
Height	mm	2220	2220	2250	2300	2450

* Data refer to clean water when working continuously in standard conditions (T = 20 °C, P = 1013 mbar).
** Electricity consumption expressed in kWh per m3 of distillate produced.

DIAGRAM

