



DESALT VTR

Thermal Evaporator-Crystallizer

The DESALT VTR series evaporator-crystallizer is designed to treat scaling aqueous-based streams with a high solids content, such as saturated salt solutions. Its structural design allows for the production of a concentrated product that is as dry as possible.

It is available in versions with and without a condensation section. In the non-condensing version, the generated vapour is released directly into the atmosphere. When the crystallizer is equipped with a condensation section, condensation is carried out by supplying cooling water, allowing water recovery.

The standard equipment is designed to process 10 000 kg/day. If capacity expansion is required, multiple units can be integrated in parallel, sharing the structure and the electrical control panel.

The operation of the equipment is fully automatic - 24 hours a day.

■ FEATURES

Technology

Single/Multi-Effect

Thermal Energy for Evaporation

Thermal Energy for Condensation

Evaporation Temperature

Evaporation Vessel

Droplet Separator

Heat Exchanger for Heating

Control Unit*

Protection:

Electricity Supply**

Standard Manufacturing Material

Special Anti-corrosion Manufacturing Material***

Evaporation with thermal energy

Single-Effect

Saturated Steam

Cooling water

≈ 100 °C (Patm)

Vertical conical bottom

Cyclon separator

External Jacket

PLC Siemens with HMI touch screen

IP54

400 V III + PE 50 Hz

1.4404/1.4462 (AISI 316L/Duplex)

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	10000
Capacity	kg/day	10000
Electricity Consumption	kWh	5,5
Thermal Energy for Evaporation	kWh	331
Thermal Energy for Condensation	kWh	290
Length	mm	5526
Width	mm	5526
Height	mm	9385

■ DIAGRAM

