



**Condorchem  
Enviro Solutions**



## ENVIDEST LT VS

### Electrical Vacuum Evaporator by Heat Pump

The ENVIDEST LT VS series vacuum evaporator is designed to treat aqueous-based streams with a low contaminant load. The equipment operates with electrical energy and its heating and condensation system is based on a heat pump (HP) unit.

This equipment stands out for its superior energy efficiency within the range of single-effect heat pump evaporators. Thanks to its submersible coil-type heat exchanger, it has a larger exchange surface and requires less installation space.

The operation of the equipment is fully automatic - 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  
Vertical  
Raschig rings  
Submersible Coil  
Single heat pump unit, or primary and secondary heat pump unit (depending on the model)  
Venturi Ejector or liquid ring pump (depending on the model)  
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	500	750	1000	1500	2000	2500	3000
Capacity*	L/day	250	500	750	1000	1500	2000	2500	3000
Electricity Consumption**	kWh/m <sup>3</sup>	170	170	170	170	170	170	170	170
Length	mm	2050	2100	2200	2200	2800	2900	3000	3300
Width	mm	830	870	1000	1000	1300	1250	1350	1350
Height	mm	1900	2250	2200	2400	2400	2420	2700	2750

Parameter	Unit	4000	5500	7000	9000	10000	12000	15000	18000
Capacity*	L/day	4000	5500	7000	9000	10000	12000	15000	18000
Electric Consumption**	kWh/m <sup>3</sup>	170	170	170	170	170	170	170	170
Length	mm	3500	3600	4000	4500	4500	4500	5600	5600
Width	mm	1350	1500	1500	2000	2000	2000	2250	2400
Height	mm	2840	3020	3250	3250	3310	3300	3900	4155

\* Data refer to clean water when working continuously in standard conditions ( $T = 20\text{ }^{\circ}\text{C}$ ,  $P = 1013\text{ mbar}$ ).  
\*\* Electricity consumption expressed in kWh per m<sup>3</sup> of distillate produced.

### DIAGRAM

