IST
Everlasting solutions

EVAPORATORS

Evaporators for wastewater treatment

IST-WE

LOW-IMPACT TECHNOLOGY

Typical application
100 to 2.000 l /24 h

Automatic functioning

Plug & Play

Easy to use

Sustainable

Efficient

Treating wastewater is not just a **regulatory requirement**: it is also an opportunity to **save money, optimise processes and improve the sustainability** of your business. IST vacuum evaporators are the ideal choice for drastically reducing disposal costs, recovering up to 95% of the water contained in the wastewater and transforming it into reusable distillate. Thanks to **heat pump** technology and **low-temperature** operation, these systems operate efficiently and automatically, with reduced energy consumption and minimal maintenance. The result? **An investment that pays for itself** in a short time and **resolves all the logistical complications** associated with the transport and storage of liquid waste.

The WE model is a **compact** and **robust** vacuum evaporator, equipped with a heat exchanger featuring a **coil immersed directly in the liquid to be processed.** This system enables **efficient heat transfer,** ensuring **excellent** evaporation performance. The condenser, integrated into the upper part of the boiler, **optimises the phase change** of the steam produced, simplifying the system and reducing its footprint.

Model	Installed power	Productivity l/24 h
IST-WE-240	4 kW	240 l/24h
IST-WE-312	4 kW	312 l/24 h
IST-WE-480	7 kW	480 l/24h
IST-WE-720	7 kW	720 l/24h
IST-WE-1200	12,3 kW	1200 l/24 h
IST-WE-2160	29 kW	2160 l/24 h
IST-WE-2640	31 kW	2640 l/24h

THE BENEFITS OF EVAPORATORS

Up to 95% reduction in disposal costs

- By recovering most of the water contained in the wastewater, **the evaporator drastically reduces the volume of waste to be disposed of**, resulting in **immediate and ongoing savings** on costs associated with waste transport and treatment.

Low energy consumption

- Thanks to heat pump technology and vacuum operation, the plant requires **less energy than traditional systems**, offering an **excellent ratio** between electricity consumption and water treated.

High quality of the distillate

- The water obtained is **clear and can be reused directly** in the production process, for example for washing or dilution, reducing the consumption of fresh industrial water.

High concentration of residual substances

- The process **effectively separates contaminants,** concentrating them into a minimal volume that is easy to manage and dispose of in **compliance with environmental regulations.**