



EVAPORATORS

Evaporators for wastewater treatment

IST-WE-S

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-S model is the **high-performance** version of the series, designed for the treatment of **more complex** or heavily contaminated effluent. It is equipped with a **jacketed heat exchanger**, which surrounds the boiler, and an automatic **internal scraper** that keeps **the heat exchange surfaces constantly clean**. This system allows for **higher concentrations** to be achieved and enables the treatment of **sludge or high-viscosity liquids** without scaling.

Model	Installed power	Productivity l/24 h
IST-WE-S-240	5 kW	240 l/24h
IST-WE-S-360	5 kW	360 l/24h
IST-WE-S-480	7 kW	480 l/24 h
IST-WE-S-720	8 kW	720 l/24 h
IST-WE-S-1320	14 kW	1320 l/24h
IST-WE-S-2400	31 kW	2400 l/24h
IST-WE-S-3600	38 kW	3600 l/24h
IST-WE-S-4800	47 kW	4800 l/24h
IST-WE-S-6000	57 kW	6000 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**.



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**.