Industrial Water Evaporators

HIGH-EFFICIENCY

VACUUM EVAPORATORS CONCENTRATORS

Waste reduction up to 95% and more

•

High savings on disposal costs

•

Innovative heat exchangers

•

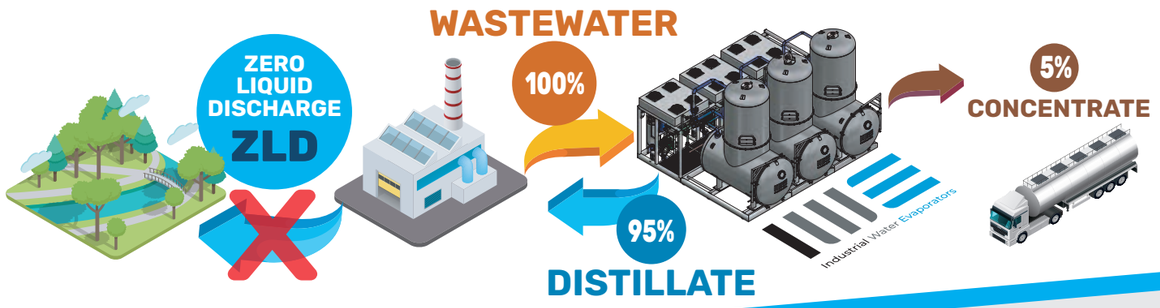
Simplified management and maintenance

•

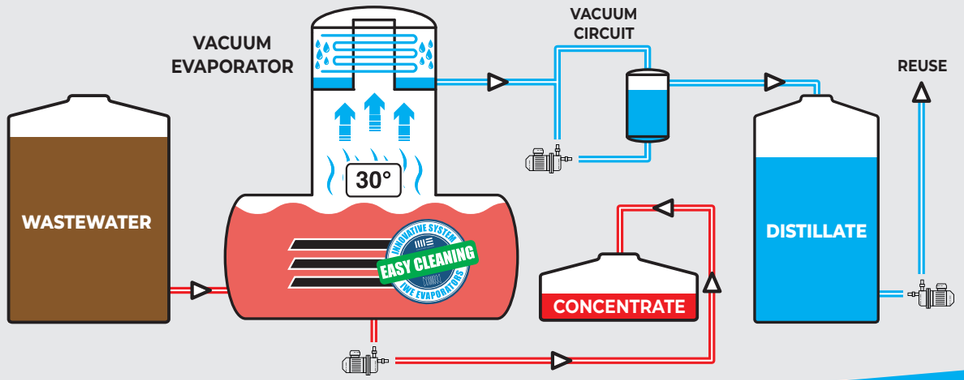
Perfect Circular Economy solution

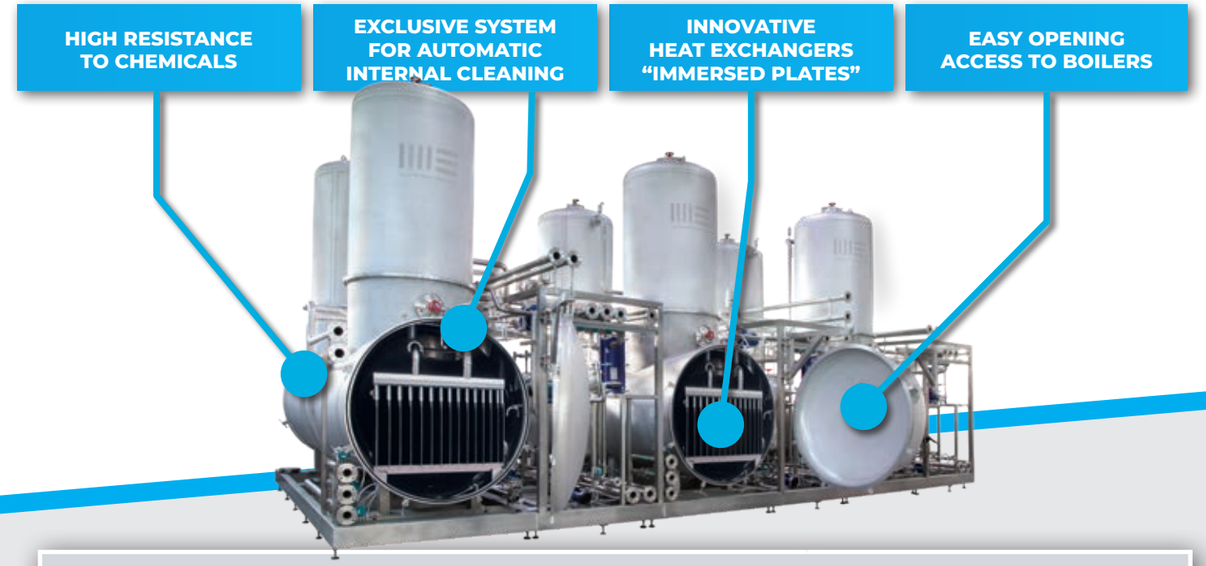
THROUGH VACUUM EVAPORATION, IT IS POSSIBLE TO SEPARATE A NON-VOLATILE COMPOUND DISSOLVED IN A SOLUTION WITH LOW OPERATING COSTS IN ORDER TO OBTAIN DEMINERALISED WATER AND A MINIMUM VOLUME OF CONCENTRATED PRODUCT.

IWE Industrial Waters Evaporators designs and manufactures systems for the evaporation of water-based solutions, also in ATEX version, and bases its achievements on the valuable experience of its technicians who, **since 1982, have been producing and installing High Energy Efficiency Vacuum Evaporators and Concentrators in many industrial sectors.**



CONCENTRATION • HIGH CHEMICAL RESISTANCE
SEPARATION BY EVAPORATION • MAXIMUM RELIABILITY
PRODUCT VALORISATION • INNOVATIVE INTERNAL CLEANING SYSTEM
RECOVERY OF AQUEOUS SOLUTIONS • EASY OPENING





MAIN APPLICATIONS

DIGESTATE	MECHANICAL	GALVANIC
REVERSE OSMOSIS	RUBBER VULCANIZATION	HEAT TREATMENT
DIECASTING	INDUSTRIAL PAINTING	FOOD, CHEMICAL, PHARMA INDUSTRIES
LANDFILL LEACHATES	GRAPE MUST AND BALSAMIC VINEGAR CONCENTRATES	NATURAL FLAVOUR AND HERBAL EXTRACTS CONCENTRATES

WASTE REDUCTION UP TO 95% AND EVEN MORE!

With IWE evaporators it's possible to drastically reduce the amount of wastewater to be disposed of, even up to 95% or more compared to the original volume, thus benefiting from very high economic savings on disposal costs.

The danger of fouling in heat exchangers is a real and recurrent problem caused by the deposit of substances with limited solubility.
Conventional immersed coil or shell and tube heat exchangers have an extremely small space between the exchange surfaces, do not allow easy removal of deposits and create considerable inconvenience during cleaning and maintenance.

IWE HAS DESIGNED INNOVATIVE HEAT EXCHANGERS with an "IMMERSED PLATE" SYSTEM characterised by large free spaces between the plates and by a special opening of the evaporation boiler through a quick-opening door instead of the traditional flanged closure.
In this way, cleaning the exchangers is extremely easy and quick, drastically limiting the downtime required to restore maximum efficiency to the exchangers.

Industrial Water Evaporators

TYPES OF INSTALLATIONS

ELECTRIC ENERGY

Heat Pump

Vacuum evaporation plants with
exclusively electrical power supply.

TREATMENT CAPACITY

from 5 to 4.000 l/h
(from 120 to 100.000 l/day)

ENERGY REQUIREMENTS

SINGLE EFFECT	DOUBLE EFFECT
160 W/l	**100 W/l**

THERMAL ENERGY

Hot Water / Steam

Vacuum evaporation plants with
hot water or steam supply
(also from heat recovery or cogenerators).

TREATMENT CAPACITY

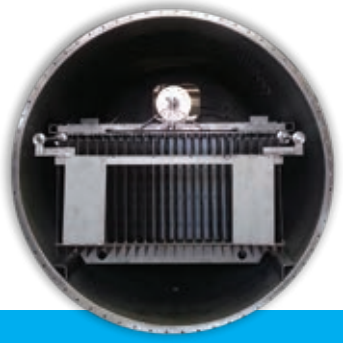
from 100 to 15.000 l/h
(from 2.400 to 360.000 l/day)

ENERGY REQUIREMENTS

SINGLE EFFECT	DOUBLE EFFECT	TRIPLE EFFECT
600 Kcal/l	**300 Kcal/l**	**200 Kcal/l**

SPECIAL VERSIONS

EVAPORATORS EQUIPPED WITH AUTOMATIC REMOVAL OF DEPOSITS.



EVAPORATORS EQUIPPED WITH CASING FOR OUTDOOR INSTALLATIONS.

EVAPORATORS EQUIPPED WITH SILICON CARBIDE EXCHANGERS.

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INNOVATIVE SYSTEM EASY CLEANING IWE EVAPORATORS

engineering MADE IN ITALY

4.0

ZERO LIQUID DISCHARGE Z.L.D