



# Innovative technology for clean wastewater

## Environmental Technologies

### ET- SERIES

- Low energy consumption
- COD distillate without filler chemicals
- Low Maintenance and Running cost



## The company

ENVOTHERM is a Danish company producing innovative environmental systems for recycling of industrial waste water. Since 2007 Envotherm has continuously invested in comprehensive development and on-site tests to prove the unique product platform.

## ENVOTHERM® technology

(AIRLESS VAPOURING)

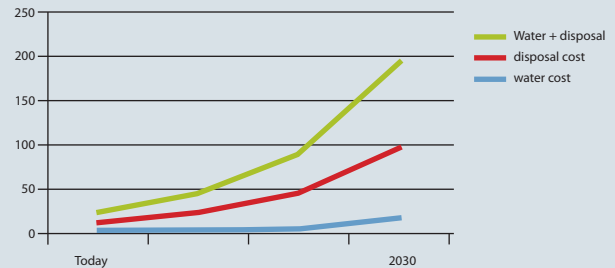
ENVOTHERM has a very strong market position as a result of its Patented Technology for most industrial wastewater segments.



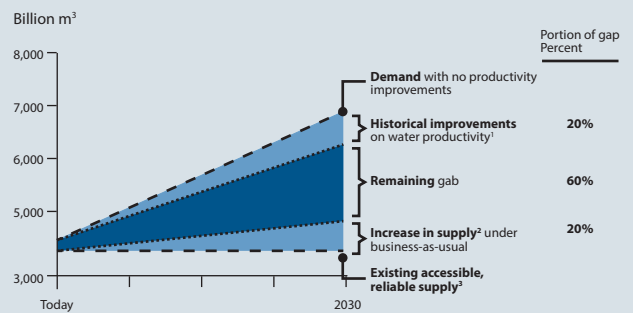
## The TEAM

Customers have first priority, this requires:

- High level of staff motivation and qualification.
- High technical level within our speciality – environmental wastewater technology.
- A broad experience in international business with high level of responsibility, to assure our customers a top quality product.



### Business-as-usual approaches will not meet demand for raw water



1 Based on historical agricultural yield growth rates from FAOSTAT.

Agricultural and industrial efficiency improvements from IFPRI.

2 Total increased capture of raw water through infrastructure buildout, excluding unsustainable extraction.

3 Supply shown at 90% reliability and includes infrastructure investments scheduled and funded. Current 90%-reliable supply does not meet average demand.

## Application Areas

ENVOTHERM ET – Units clean/separate industrial wastewater of almost any origin, provided that the main constituent is WATER. Application areas are multiple.

Hereby some of the application areas:

- Cutting fluids and other oil-bearing wastewater.
- Wastewater from alkaline cleaning.
- Rinsing water from surface treatment.
- Wastewater carrying TEFLON and heavy metals.
- Process water from various industries: glass production-galvanic-ball polishing etc.
- Ethylene Glycol purification.
- Separation of organic matter in general.
- Die casting: Oil, soap, heavy metals etc are all separated effectively.

## Investing / Leasing / Renting ET-Product serie

TYPE	ZLD I	ZLD2	ZLD3	ZLD4	ZLD5	ZLD6	ZLD7	ZLD IO
RATED CAPACITY M <sup>3</sup> /YEAR	750	1500	2200	3000	3800	6800	8500	14000
ENERGY CONSUMPTION KWH/M <sup>3</sup>	45	40	38	35	30	25	22	20
LENGTH MM	1200	1500	2000	2000	2000	3000	4000	4000
WIDTH MM	800	1000	1000	1000	1500	2000	2500	2500
HEIGHT MM	1850	2250	2250	2250	2500	3000	4500	4500
WEIGHT KG	650	850	1050	1500	1750	4000	6500	8000
SUPPLY VOLTAGE	400/440	400/440	400/440	400/440	400/440	400/440	400/440	400/440
SUPPLY FREQUENCY	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60

All ET standard units are based on the special ENVOTHERM "unstressed" evaporation "MVR".  
ZLD: Zero Liquid Discharge

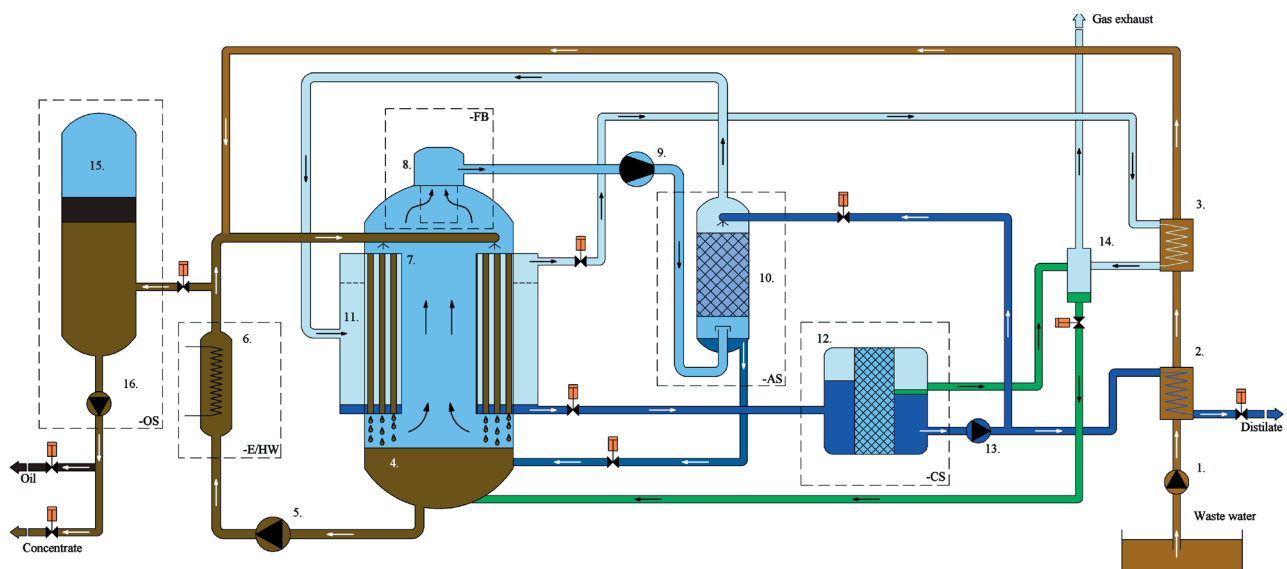
### ET-RANGE

Customized installations with capacities over 17.000 m<sup>3</sup>/year or other required special functions are an ENVOTHERM speciality.

## Installation Strength and Flow Chart overview

- Patented Technology
- Endless combinations available to suit your specific needs
- Pure Water – Less Energy

**WE SOLVE YOUR  
WASTEWATER PROBLEM**



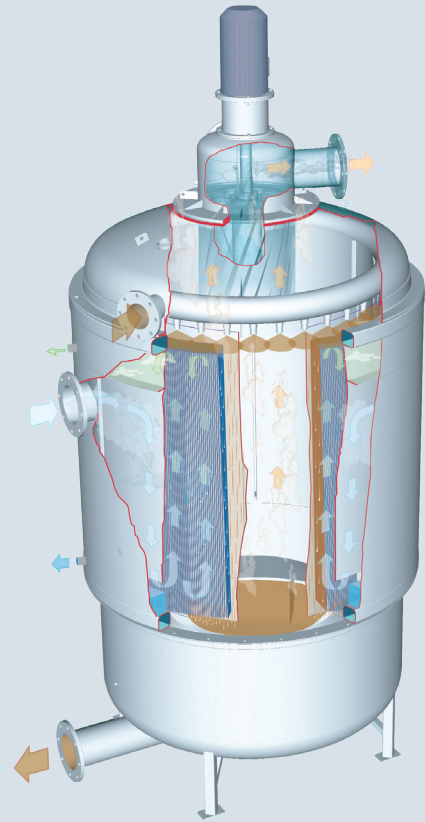


## ENVOTHERM® Technology

In our universe, every organism & element strives for optimised energy utilisation at the lowest possible ratio to consumption. ENVOTHERM® technological platform is based on the comparable way to satisfy those natural attributes = LESS ENERGY.

### MECHANICAL VAPOUR RECOMPRESSION "MVR"

- Coalescence – separation on the distillate.
- Patented absorber technology.
- Vertical cylindrical evaporator – less foam –less dirt.
- Durable construction.
- All process parts fulfil ISO standards - EN 1.4404.
- ISO certification 9001:2015.



## The Advantages

ENVOTHERM MVR contains many advantages compared with similar systems.

- Lowest energy consumption on the market (<15-45kWh/m<sup>3</sup>)
- High degree of separation - Wastewater is separated into distillate (clean water) and a waste concentrate of only 3-15% of the original quantity.
- All heavy metals are effectively removed e.g.: Chromate(Cr), Nickel (Ni), Cadmium(Ca),
- Due to the evaporation principle and the patented absorber system the quality of the distillate is considerably better than similar systems.
- Low COD, no oil or additional after treatment is needed (no chemicals or carbon filter).

## Quality

Quality monitoring - QUALITY CONTROL

Keyword IN THE WHOLE OF ENVOTHERMS mind-set is QUALITY. From first customer contact until completion of a functional ET-Installation.

For us INNOVATION and QUALITY are the corner stones to successful Environmental care.

All components used and main suppliers are EN ISO 9001 accredited where the production control within ENVOTHERM works under ISO standards and highest quality codex.

- High Quality = Extended System Life
- High Quality = Low Maintenance Cost
- High Quality = Over Time, Less Environmental Impact

## Investment – LEASING or RENTAL!

Investing in an ENVOTHERM solution means, early Return On Investment combined with a long lasting function/lifetime.

Depending on your wastewater definition/pollution and the cost of contamination for your wastewater the typical ROI from an ENVOTHERM installation will be 8-30 months.

## Better Cashflow!

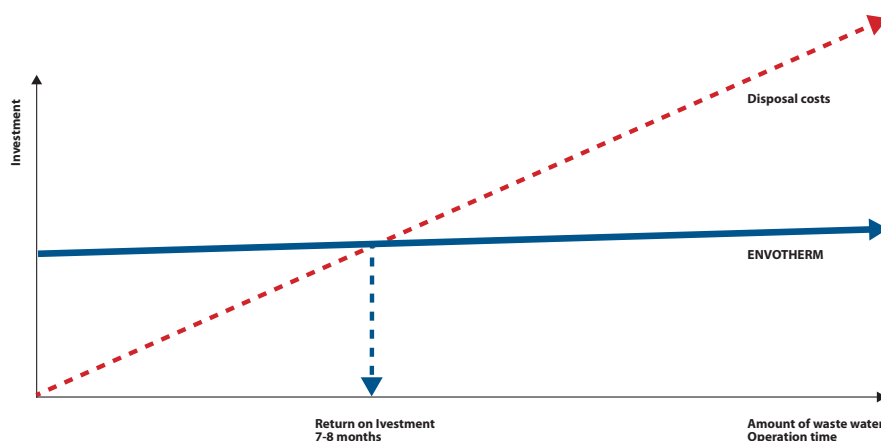
ENVOTHERM is able to offer either leasing- or rental arrangements, which secure our customers a fixed cost scale, in accordance with your current financial exposure on the contamination cost of your wastewater

**Contact: ENVOTHERM Sales Office**

## CONTAMINATION COMPOSITION:

**Let us make a separation test of your specific wastewater and get a specified definition from ENVOTHERM on YOUR future solution.**

**Contact: ENVOTHERM Research and Development Team**





# PURE WATER — LESS ENERGY

## Installation – RUN IN

(Hotline :+45 3116 4780 )

ENVOTHERM ET-MVR systems comes as a compact unit ready for installation.

All processes in our installations are supervised and controlled by ENVOTHERM and we secure the correct run-in of the systems for optimal performance.

ET-MVR systems are designed to save space as they are installed in compact units.

ET-MVR systems allows you easy maintenance, and the compact size are optimizing the production space for your benefit.

## Service

ENVOTHERM®ET-MVR systems are well proven and documented over the years, with basis in naturally functioning processes.

This is your security for low service- and maintenance cost.

ENVOTHERM® will happily enter into individual service contracts, where your ET-MVR installation will be monitored constantly via internet.

**HOT LINE: ENVOTHERM offers 24/7 HOT LINE.**

**ENVOTHERM®**  
PURE WATER – LESS ENERGY