

Industrial Water Treatment

With our system you can recover much of your waste water

The objective is to **save water**, avoid costly penalty, and improve the environmental image of your company. The resulting water is of such quality that, in addition to **complying with legislation** of pouring water, in most cases can be **reused** in the process.

We propose a **comprehensive system in three phases**: Pretreatment or primary roughing, physical-chemical treatment, and a combined treatment of Membranes (Ultrafiltration, Nanofiltration and Reverse Osmosis). The development of these **membranes** are the result of years of research, and are **made exclusively for DimWater Engineering equipments**.



Interior of the Physical - Chemical container



Interior of the Reverse Osmosis container

Available for rent our pilot plant and we perform testing and demonstration of feasibility of our technology. We will convince you

Our comprehensive system includes an analysis of industrial water from your company to accurately study their composition and complexity of the work. This allows us to choose the **best way of treatment**. In addition, so we can adjust the management costs of the plant, including the consumption of chemicals.

We work to optimize the entire process, so that the return on investment as fast as possible.
Your saving is our goal.

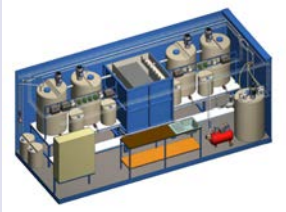
About **60% of total water consumption** in developed countries is intended for industrial use. The production sector is not only the biggest spender, it is also **the most polluted**. Over 80% of hazardous waste in the world are produced in industrialized countries.

These data provide an idea of the importance of **reusing** wastewater, as if discharged without any treatment, the **impact on the ecosystem** would be immense, polluting scarce water resources.



How works the Physical - Chemical treatment?

Eliminating all potential water contaminants by physical separation (bars roughing, mesh filters, filter beds) and chemical (adding coagulants and flocculants for precipitation and settling of suspended solids, and other minor dissolved in colloidal form).



Interior 3D view of the Physical - Chemical Treatment Container

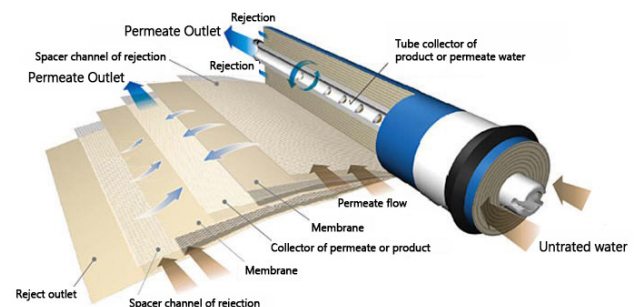
Physical Treatment: gravity separation (sedimentation), oil separation, flotation, filtration, adsorption, solvent extraction, evaporation, ethylation, centrifugation...

Chemical Treatment: neutralization and pH adjustment, precipitation, oxidation, reduction, ion exchange...

What is Reverse Osmosis?

It is the ability of a semipermeable membrane for separating water from substances dissolved in it. An application of higher osmotic pressure generates a flow of particles, which will cause the liquid to pass through the membrane, separating the **pure water** (permeate) from the water that containing salts (rejection).

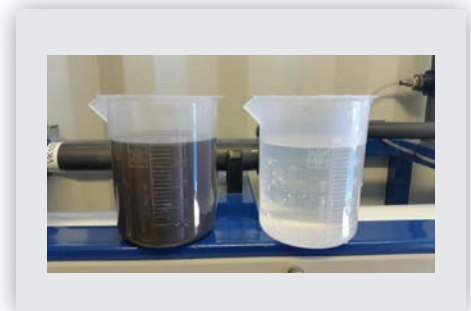
For this, we use membrane technology in **open channel SPM module**, exclusive of DimWater Engineering, with specific molecular cuts, and that can work at high pressures.



Becomes a serious problem in a new resource base

Advantages of the DimWater Engineering treatment

- Clean water recovery up to 90% of the total.
- Ability to adapt to the needs of each water.
- Avoid legal penalties for water discharge.
- Operation, maintenance, and control of maximum simplicity.
- Our system of running mobile plants in containers enables fast expansion of the capacity work.
- System the best membrane technology, backed by a large number of references in leachates and complex waters.



A new service, with the exclusive design of DimWater, and a custom-built based on the needs for each water treatment and for the recovery objectives of each customer. Available for rent a pilot plant demonstration