DimWater Engineering
Environmentally Sustainable Solutions

Reuse System of Dressing Olives Water

With our treatment, from waste water, we recover clean water and save money

The objective is **to save water and money** in the process of elaboration of olives. The resulting water is of such quality that, in addition to **complying with pouring water legislation**, it can be reused in the process, saving a lot of money.

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 prove our pilot plant. We perform testing and demonstration of feasibility of our technology. We will convince you

In the process of olive dressing, large amounts of **waste water** are generated from washing the olive, after cooking.

Our plants have the **capacity to work in different ways in different time zones of the day**. Thus, a single treatment unit, thanks to the membrane system, can obtain a **water completely suitable for a new use**. Recycle to save.

Subventions of up to 70% (non-repayable)

DimWater Engineering wants that you can take benefit of this opportunity, for the good of your company and for the good of all, taking care of the environment. We help you in the **management of subvention** advising throughout the process, and carrying out all the necessary documentation.

If your **cooperative** is less than 250 workers and/or does not exceed € 40 million in annual turnover, you **can get a 70% non-refundable subvention**. In case of overcoming these conditions, the subvention can reach 45%, also non-refundable.

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

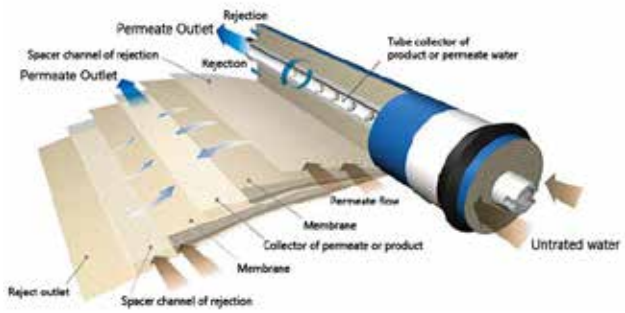
Physical Treatment: gravity separation (sedimentation), oil separation, flotation, filtration, adsorption, solvent extraction, evaporation, ethylation, centrifugation...

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).

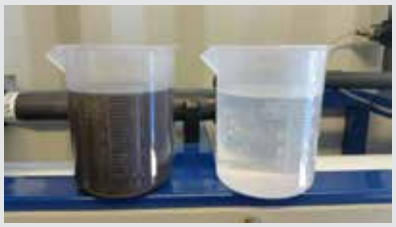
For this, we use membrane technology in **open channel SPM module**, exclusive of DimWater Engineering, with specific molecular cuts, and that can work at high pressures.



Becomes a serious problem in a new resource base

Advantages of the DimWater Engineering valuation:

- *Clean water recovery up to 90% of the total.*
- *Operation, maintenance, and control of maximum simplicity.*
- *It enable to save energy, as it requires no phase change.*
- *Easily expandable with the addition of more modules.*
- *System of the best membrane technology, backed by a large*
- *number of references in leachates and complex waters.*
- *We take care of all the steps to receive a large amount of funds (non-repayable grant).*



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 a pilot plant for demonstration.