

## **Filling Stations**

Comprehensive solutions for complete operation

**Dimasa Grupo** manufactures and designs all the necessary equipment for the **perfect functioning of a filling station**: storage tanks, hydrocarbon separators, plants for the decontamination of floors, compact plants for service water, and treatment of effluents from the washing of vehicles.



### **What we offer?**

- **Double-walled deposits manufactured** in GRP for the storage of all types of substances, equipped with three-dimensional fabric to avoid any type of leakage.
- **Hydrocarbon Separators:** equipment prepared for the physical separation of the hydrocarbons and water in case of spillage.
- Design and construction of **plants for the decontamination of soils contaminated** with hydrocarbons.
- **Compact plants for service water treatment.**
- **Treatment of effluents from vehicle washing.**

## Double-walled tanks in GRP

Dimasa Grupo manufactures deposits in **polyester reinforced with glass fiber** suitable for storage of hydrocarbons, **with double wall and leakage alarm system**, complying with current regulations.



Double Wall Horizontal Tanks



### Advantages

- High chemical and mechanical resistance.
- Lightweight and easily transportable.
- Saving space in the plant.
- High durability and zero maintenance.
- Easy cleaning and repair before a mechanical break.
- Insulated thermally and electrically.
- High resistance to external corrosion agents.
- Savings in the construction of the containment bucket.

**All our tanks have a double chamber or three-dimensional fabric to prevent spills**

### Technical characteristics

- Depending on the product to be contained, its concentration and its temperature, **we always use the most suitable raw materials in its construction.**
- The tanks are finished and **customized** with the color chosen by the customer.
- Capacity between 1,000 and 250,000 liters in one piece.
- Diameters of 500, 800, 900, 1000, 1200, 1500, 1800, 2000, 2500, 3000, 3500 and 4000 mm.
- The double-walled tanks can be double tank or with three-dimensional fabric.
- For its manufacture we use different types of resin: **Orphthalic, Iphtalic, Bisphenol and Vinylester.**

## Hydrocarbons Separator

The equipment of hydrocarbons separator serve to eliminate the remains of oils of mineral origin of the industrial water. **So its installation is necessary in gas stations, car washes, mechanical workshops and garages...**



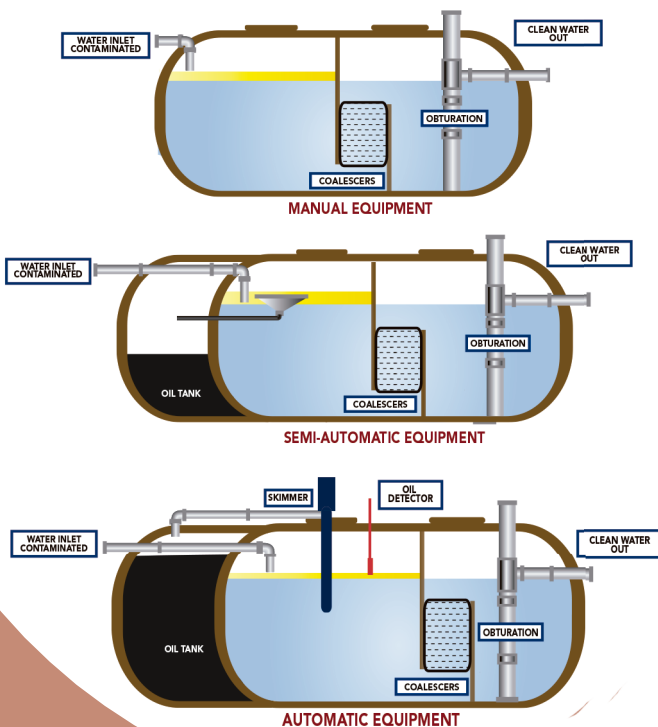
Hydrocarbons Separator

**We directly manufacture all equipment designed by our engineers**

### Advantages

- Design and manufacture to measure of all the equipment allowing a greater efficiency to a smaller cost.
- Our system is composed of mobile units of easy transport and assembly.
- Lightweight and easily transportable.
- Compliance with UNE-EN 12121 or ASME, and UNE-EN 858.
- High durability and zero maintenance.
- Quick installation and commissioning.
- High resistance to external corrosion agents.
- Maximum tightness in the construction of equipment.

### Technical characteristics



The process consists of two stages:

#### 1. Fat Removal

The effluent is treated in the hydrocarbon separator, where from the difference of specific weights between the water and the hydrocarbon its separation takes place.

**Inside the Dimasa Group equipment, coalescing cells are installed that allow us to achieve higher performance**

#### 2. Security System

In addition, we include in all our equipment a **Shutter**: a safety device that prevents the outflow of hydrocarbons to the outside when the equipment is full of fats, thus avoiding a polluting discharge to the outside.



## Decontamination of soils contaminated by hydrocarbons

The decontamination of soils and water contaminated by hydrocarbons requires a specific technology depending on whether it is an aquifer or a laundering.

### We manufacture plants adapted to the needs of the client

Dimasa Group's engineers design the plants **minimizing their energy consumption and maintenance**



**We manufacture portable installations** presented in container shipping format, which offer a light, compact, rigid and robust structure. In addition, we designed them to have a maximum modulation capacity.

Being composed of modules, **do not require civil works, and the operability and installation are very simple.** They are fully automatic equipment that does not require the presence of personnel.

### Technical characteristics

- The equipment we offer is based on the principles of filtration, separation, flotation, vacuum and bioremediation processes.
- Our modular decontamination plants work with flow rates of 30 to 350m<sup>3</sup> / h.



Vacuum equipment 350 m<sup>3</sup>/h



Filtration equipment 50 m<sup>3</sup>/h



Pumping equipment 50 m<sup>3</sup>/h



### Success stories



Aquifers



Contaminated soils



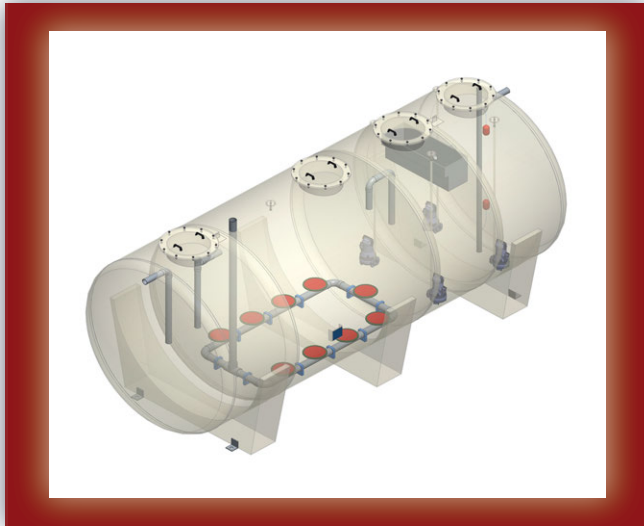
Petrochemicals



Gas stations

## Compact plants for service water treatment

Dimasa Group designs and manufactures **compact debugging equipment** in horizontal disposal for burial or surface with GRP cradles. We obtain the reduction of pollutants until compliance with discharge to the collector, public channel or the reuse of the waste water. We guarantee quick installation and assembly, easy interior cleaning, high durability and low maintenance. We study each case to offer the best **personalized solution**.



The compact plants carry **all the equipment necessary** to obtain excellent results in the treated water: thinning equipment, submersible or external pumps, fine bubble diffusers or ejectors, instrumentation and the electric panel of Control of the installation.

We also supply pumping wells and treated water storage tank or metering skids and reagent preparation.

Given the **biodegradability of the wastewater** generated by the personnel of the service stations, we propose compact and buried purification plants to **purify to the required limits and even obtain water suitable for reuse**.



We propose **biological treatment** for the degradation of the organic matter present in the residual water, with the appropriate technology to reduce the volume occupied to the maximum according to the available space. The compartmentalization of our reservoirs **allows to work with anoxic chamber to denitrificate and with secondary decanter**, forming part of the same **compact equipment**.

A **customized design** allows the adjustment of the volumes and characteristics of all the equipment associated with the installation, so that changes in the parameters of the waste water do not affect the quality of the treated water (waste water temperature, high concentrations of TKN, In hydrocarbons, presence of solids or sands, etc.).

Also we **adjust to the parameters required in the output**, depending on the place where the treated water is poured.

**The MBR treatment (biological reactor with membranes)** followed by a tertiary disinfection treatment **allows the reuse of the waste water**.



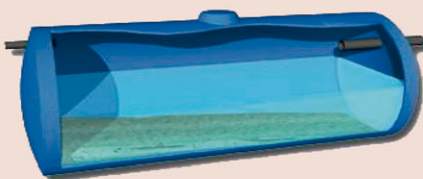
## Treatment of effluents from vehicle washing



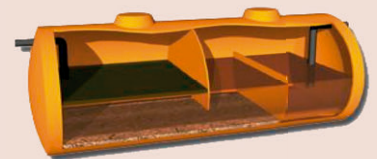
In a first stage we **separate the solids and sands generated**. For the separation of solids a roughing equipment is used to separate the large elements. For the removal of the sands we have buried equipment where the sands decanter by density when reaching the necessary retention time.

In the presence of fats, a unit will also be integrated to separate them, as their presence would destabilize the correct functioning of the subsequent stages.

### We purify the water generated in the washing of vehicles



**Desander**



**Scrouing**

Then we **eliminate the matter in suspension and the pollutant load**. Depending on the characteristics of the water can be treated with a physical-chemical treatment and subsequent decantation, or with a biological treatment in case the spill is biodegradable, in which the service waters could be integrated.

**Our engineering department will study in each case the steps necessary to design the optimal purification process**