



PURIFIER WORKING

All the wastewater of the house can be treated with our purifier systems.

Although it isn't necessary, if the distance from the origin of water to the micro-station is exceptionally long (more than 7 meters), or the amount of grease more than normal, a grease trap should be installed close to the house. For restaurants, car-washes and in all those activities in which grease discharge is likely, the installation of a grease trap is essential.

Our purifier systems work by **total oxidation**, according to active sludge and specifically the type suspended biomass.

In three-tank systems:

In the **first settling tank**, treatment unit, the solid particles suffer an anaerobic fermentation and a volumetric reduction and are gradually liquefied. The **second tank** is the oxidation unit, where the contaminants are transformed into biomass, dissolved mineral salts and carbon gas, thanks to the combined effect of atmospheric oxygen and aerobic bacteria. The necessary air for this process is produced by a compressed air generator and distributed in the ventilation tank through one or various micro-perforated bases. The pressure generators that supply ventilation work continuously. The **third tank** is the second settling tank or clarifier (secondary sedimentation). Here the biomass settles down forming mineralized sludge, eliminated by annual cleaning.

There is the option of an automatic sludge purged, generated in the last phase, to the primary settling tank, for which has a second timed compressed air generator of daily working.

A sludge recycling system type gravitational returns decanted sludge from the clarifier to the ventilation tank, ensuring a more stable functioning, a good denitrification and a better management of sludge.

There is no need to add bacteria in the start-up of the system or after prolonged stops.

OPTIONAL

Pneumatic alarm, disposed in the hose after the air pressure generator, warns of possible problems in the system pressure.

Do not doubt to contact our technical service in order to determine the capacity of your purifier station.

At request, following information can be obtained:

Description and users' manual – Specifications – Maintenance contract – Functioning of alarm – Calculation of your system, etc.