



## SEPTIC TANK WORKING

The range of septic tanks can be structured in 3 different types depending on their application:

- The **classic feces septic tank**, receives only the black water (toilet water).
- The **tank for all the wastewater** receives all the wastewater from the house.
- The **tank with integrated filter**: equipped with a suspended matter retention filter, treats all wastewater. It is used in combination with a bacterial filter.

The choice of one or the other will be conditioned on the use and application rules for each site (Hydrographic Confederation, regional and local). With regard to the number of Inhabitants Equivalent, the following table can be used as a guide:

Volume	Classic	All wastewater	Integrated filter
<b>1.000 L</b>	4	-	-
<b>1.100 L</b>	4	-	-
<b>1.500 L</b>	6	-	-
<b>1.600 L</b>	6	-	-
<b>2.000 L</b>	8	4	4
<b>2.400 L</b>	9	4	4
<b>3.000 L</b>	12	6	6
<b>3.300 L</b>	12	6	6
<b>6.000 L</b>	24	12	12

If there aren't a permanent number of users, ask our technical service that will help to establish the exact number of I. E. For example: Schools, offices, hotels, camping, etc.

Overall, the septic tank is a simple liquefier, with a limited purifier power (for higher efficiencies see waste water treatment systems). The organic matter contained in the effluents has been transformed into fine particles partly digested by anaerobic bacteria, which grow in this environment poor in oxygen. This fermentation process produces gas that is evacuated to the exterior through a ventilation pipe connected to the ceiling. A part of the feces matter forms a surface and air-tight layer, another part is deposited at the bottom of the tank, gradually reducing the available volume and thus the treatment capacity. Therefore, these devices must be cleaned periodically.

A septic tank should be big enough to allow bacteria's digestion. Usually this period is 5 days minimum. A septic tank must be constructed so that the effluent is introduced under the surface layer with a minimum of turbulence and evacuated below the previous limit.

Do not doubt to contact our technical service for calculating the capacity of your septic tank station

**You can get information from:** Descriptions and installation manual, information for specifications, maintenance contracts, sizing of your system, etc.