

INSTALLATION PROCEDURE, MAINTENANCE AND WARRANTY FOR INDIVIDUAL WATER PURIFICATION

REMARK: READ THIS CAREFULLY BEFORE STARTING INSTALLATION.

To guarantee facilities it is necessary that its installer is accredited as a certified installer of the brand

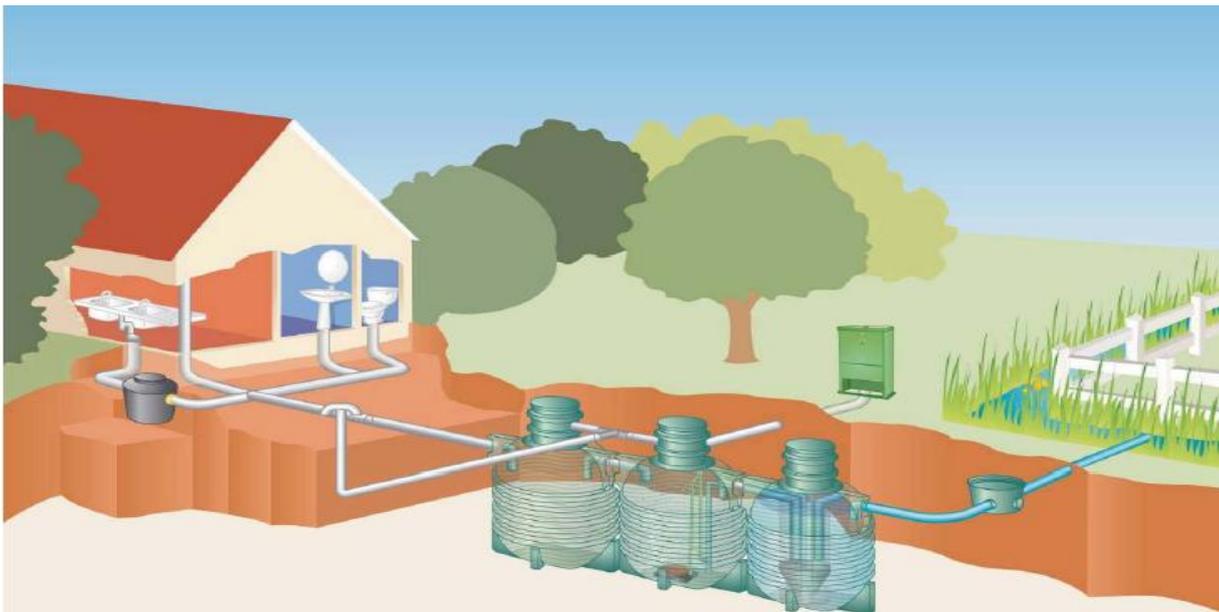
Where to install?

Choose a location the closest to the sewage output of the building, where the purifier can easily receive all the waste water to be treated (except rainwater).

The treatment plant should be installed as deep as possible. Before ordering the installation, it will be necessary to control the depth of the sewage pipeline and check if the normal risers provided with the installation are high enough to reach the finished floor level. As these risers are welded on the tanks in the models Opur supercompact 5 / 3 and 8 / 3, the choice of the height of these must imperatively be made to order.

In the excavation, check that there is no abnormal water in the ground.

The air pressure generators must be placed in the building, in a dry and well ventilated place, at a maximum distance of 15 m from the ventilation tank. If the distance is longer, please contact us. It is also possible to place a special box (see options) in which the pump can be installed near the micro station. This box protects the pump against time and is the ideal solution if you can't install the generator in the building next to the micro station. In addition, thanks to its design, the generator is easily accessible for cleaning, inspection...



How to install?

Dig a pit depending on the size of the tanks (taking into account the observations made in previous paragraph) increasing by about 20 cm around and under. The bottom of the excavation must be perfectly flat and covered



with a layer of consolidated sand of 20 cm at 150 kg/m³. If abnormal presence of water in the excavation, it will be necessary to create a small well to dry it and set the tanks on a concrete slab.

Place the tanks that make up the installation in the excavation, perfectly leveled and in order, starting with the primary decanter, then the ventilation tank and finally the secondary decanter. Small arrows indicate the direction of flow. Connect the tanks between them. Make the connection of the waste water to the primary decanter (passing through the degreaser)

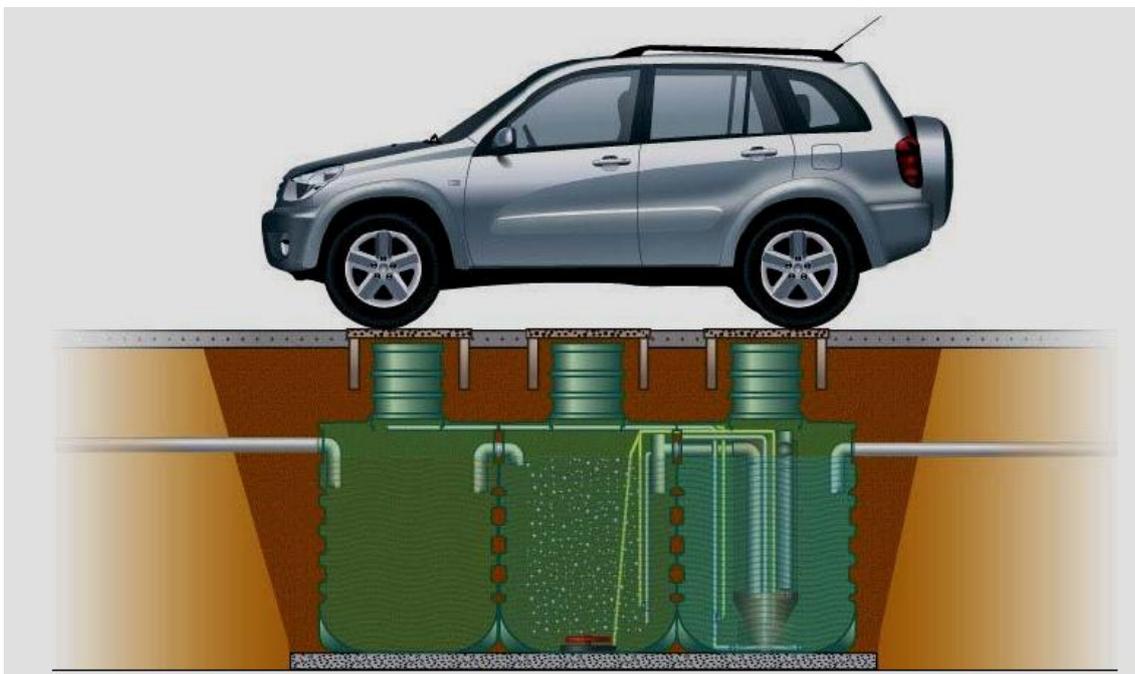
Fill the three tanks with water (rain or city water.), if all the connections are made, the filling can be made by gravity. Fill the tanks laterally with sand without stones, up to the base of the risers. Check that the sand does not enter the tanks during the filling covering the orifices and then uncovering them (ventilations etc.). Raise the existent concrete ballasts in the ventilation tank and screw the ventilation disc with micro perforated membrane. Then back down the ballasts, know equipped, and distribute them on the bottom of the tank.

If the finished floor level is defined, the risers can be trimmed, if not, wait until this level is defined with certainty before trimming. If the risers have been removed to cut them to the correct height (only possible on the WZ) be careful to install them again as they were initially.

A sheath of ventilation must be installed between the primary decanter and the oxidation risers (for monobloc models this ventilation is already installed, only connection missing) to this end, place a tube of 50 mm, provided with an elbow and connect it to a T of 110 mm. equipped with a 110x50 reduction. This ventilation should be between 100 and 110 mm. above the roof. When ventilation on the roof is not possible, it should be conducted by a trench to the back of the garden, opposite to the prevailing winds, camouflaged in a bush. Place a chimney on top of the ventilation or a double elbow to 180 °. Ensure that the condensate water can not block the ventilation (drilling the elbow or putting a T). Connect the air hose on the link expected in the riser of the ventilation tank and fasten it with its accessory. Protect the hose with a sheath of 110 mm. and place it in the connection in the opposite direction of ventilation. This sheath is designed to protect the air hose until the building where it will be connected to the pressure generator

Finish filling with sand without stones up to the screed from the risers. When the purifier plant must be installed below the risers' screed, a concrete registry is wanted to be built, or may be passing vehicles within a radius of 3 m, it must be built a concrete slab of sufficient strength on the entire plant, taking support on the firm ground, not dug.

The final lids are also selected depending on the expected load.





Attention

In case any vehicles might drive in the immediate surroundings of the facility:

A lid adapted to the overweight should be used e.g. pedestrians' 50kN, vehicles 125 kN, trucks 250 kN or heavy weight vehicles 400 kN. The lids should be supported in a sufficiently strong, reinforced concrete slab to avoid any immediate pressure on the tanks (ask for information at a recognized technician). The slab should rest on the firm ground that has not been dug.

The PE lids which come standard with the wastewater treatment system have no lock and cannot carry the weight of persons/vehicles passing above the system. It is always necessary to install resistant lids, in order to guaranty persons/vehicles security that will pass over the micro station.

Electric connection

Connect the pressure generator on 1 or 2 electrical outlet + ground wire (230v) in a well ventilated, dry place where the temperature can't drop below 5 ° C or go up to more than 40°C. Electrical outlets must have magneto 6A and differential 30mA protection, according to REBT.

The alarm provided is an audible alarm, must be supplied by a third outlet or connected directly to the previous outlets. This alarm must be installed on the air hose after each pressure generator. Is intended to report about a possible fault in it.

ADJUSTMENTS

All of the systems should be adjusted. This is not difficult and consists of: correct adjustment of the manhole of the aeration tank (NO₂), starting of the pressure pump and ensuring that there is no entry of used water. Open the valves to 45 degrees. Let the system work for a few minutes and check the level of the effluent, normally it should descend. If the level remains stable at about 15 to 20 cm under the outlet, the adjustment is ok. On the opposite, if the level is lower, close again slightly the valves. In parallel, if the level is stabilized above, open slightly valves. Wait a few minutes, and then recheck the level; if it remains stable, the setting is completed. On the opposite, if the level is not stabilized, you must restart the operation.

MAINTENANCE

An annual maintenance contract is available in Options. The contract application form must be completed and returned to Acción Industrial. Our services will resume contact with you in short.

MAINTENANCE OF TANK 1 (primary decanter)

The individual primary decanters, in the case of a septic tank, should be cleaned every year to ensure the correct working and prevent the system from being harmful to health and public hygiene. Fill with clean water after cleaning.

MAINTENANCE OF TANK 2 (ventilation tank)

Clean the ventilation disk(s) once a year. You can do this by lifting the concrete block (s) that is/are at the bottom of the tank. Use the ropes that are installed for this purpose. The disc (s) can be cleaned using a simple sponge and clean water. Then, the disk (s) will be again capable of letting pass oxygen coming from the generator (s).

MAINTENANCE OF TANK 2 (secondary decanter)

Get the tank 3 cleaned by a specialist cleaning company at the same time as the tank 1 (Attention: clean the funnel and the tank. First, clean the outside part and then the funnel). After cleaning, fill the funnel first with clean water and let it overflow so that the tank is filled too.

WARRANTY

All our appliances have a 45-year warranty for manufacturing defects, to the extent that the installation instructions are strictly followed. To recognize any faults, they must be stated unequivocally. The compressed air generators have a warranty of 2 years from the date of implementation. About generators, mechanical and electrical parts ... have a 2 year warranty.