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AQUA EXTRA TOUGH ! TECH®

Dig, Install, Forget

Introducing Aqua Tech

Septic Tanks

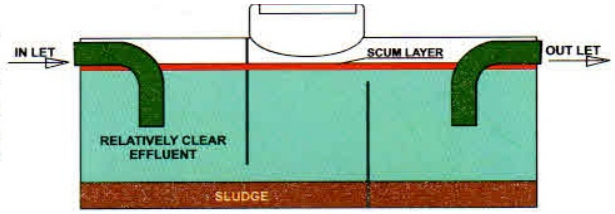
AQUA TECH Septic Tanks are with "**3 Chamber Baffle Design**" system, which ensures a high degree of settlement and sedimentation, thus providing a low level of suspended solids, suitable for discharge into any underground soak-away system.

AQUA TECH Septic tank provides primary biological treatment to crude sewage produced in a normal domestic environment. It retains solids and allows them to settle out, where they are partially broken down by biological "Anaerobic" action by microbes and bacteria. The remaining liquor (normally called effluent) is left to flow down towards the outlet drain; Bio-gas & Carbon - dioxide etc produced stays on top of the effluent and escapes through the vent pipe. This effluent undergoes further anaerobic digestion in the subsequent chambers all along the long flow path without any turbulence inside the tank ensuring high degree of settlement & sedimentation, thus providing a low level of suspended solids perfectly suitable for discharge into an underground sock-pit.

Eco Friendly Recyclable

Carris PIPES AND TUBES (PVT.) LTD.

All Products are Rotationally Moulded using PLC - Numerically Controlled Machines, in tough LLDPE (Polyethylene) which offers a very high level of impact resistance. Polyethylene is the best & most resistant to human waste & urine, on a very long term basis , it is even more resistant than cement.



Installation Guide :

- It is essential to place the septic tank, especially its sock-pit (effluent overflow pit) adequately away from the nearby drinking water well.
- Excavate/Dig a trench of required height as per the arriving inlet sewage pipe level and provide a minimum gap of 300 mm all around the sides to enable perfect fine sand/soil back-filling of the septic tank
- Ensure that the septic tank rests with its base fully supported on hard and strong level surface so that it does not move even when it is loaded fully with water. If the soil underneath the septic tank is loose, It is advisable to make strong basement with concrete so that it's footing is firm.
- Position the septic tank on the concrete after cement concrete is fully & properly set. Ensure that the base surface is perfectly plain & is free from any projections or any hard materials getting trapped underneath the based of the septic tank.
- Before connecting inlet/outlet pipes - fix the lid fully in position and fill water to one fourth the height of the tank, in all three compartment at a time, simultaneously back fill all around the septic tank with fine sand or crusher powder or soil (without any stones) almost to the same water height filled in the tank. Do not back - fill sand/soil more than the water level in the tank. This back filled sand/ soil need be stuffed (compacted) properly by pouring plenty of water to the back-filled sand/soil for proper seating. This soil stuffing with water all around the septic tank ensures extra strong support for the tank all around its periphery. Subsequently fill water in three or four steps in the tank and simultaneously back-fill sand/ soil with water in similar steps.
- Once the water in the tank is full, incoming inlet pipe can be connected to the tank and the out let pipe need be connected to a Sock-pit. (Sock-Pit is a porous-walled chamber of adequate size, normally made red bricks intermittently placed & it need be covered with a slab).
- Cover completely the septic tank with sand/soil and stuff it with water. It is always better to grow grass or similar green vegetation on top of the tank.
- To initiate the process of anaerobic reactions in the tank it is essential to feed organic microbes/bacteria and is normally done by feeding-in about 1 to 2 kgs of wet cow dung into the septic tank before use.
- The tank should not be located close to a driveway or roadway, or anyplace where there is a risk of it being subjected to additional load or weight on the top. Hence the area needs to be protected by parapet, distinctly visible.

Note :

1) It is the end user's responsibility to ensure that water table/groundwater conditions do not result in water levels rising above the base of the turret of the tank.

2) Aqua Tech Septic Tanks are provided with moulded- in lifting eyes for use during handling and installation (Only when the tank is empty). Its dangerous to lift the septic tank when its filled with water, partially or otherwise.

3) It is essential to provide an Air vent pipe anywhere on its inlet pipe connection at a position where it is possible to be supported along the wall. (Standalone Air vent pipes on the septic tanks itself, damages the pipes & the system itself in the long run and is not required in our design).

4) While Sand/soil back-filling is done - Sand/solil Stuffing (Compacting) with plenty of water is very important for its firm & all around peripheral support for the tank. It is not advisable to use Vibrators for compacting the Sand/soil.

Capacity	Model	Overall Diameter	Overall Length	Overall Hight	Wall Thicknes	No. of Chambers	No. of Manholes	Size of Manholes	Dia of Inlet & Outlet Pipes	Dia of Gas Vent
1000 ltr	15 Flush Per Day	955mm	2000mm	1110mm	10mm	3	1	550mm	115mm	100mm
1500 ltr	25 Flush Per Day	1025mm	2300mm	1170mm	10mm	3	1	600mm	115mm	100mm
2000 ltr	35 Flush Per Day	1175mm	2600mm	1380mm	10mm	3	2	550mm	115mm	100mm
3000 ltr	60 Flush Per Day	1395mm	2600mm	1610mm	10mm	3	2	550mm	115mm	100mm

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