



ANOTHER SOLUTION TO PROTECT THE ENVIRONMENT

INCA STA 600-liters ANAEROBIC SEPTIC TANK



The INCA septic tank system is based on the settling and the anaerobic filtration of household sewage. A septic chamber is combined with a filter chamber in one central treatment septic tank system. In this system, no mechanical parts are used to guarantee the function of the waste treatment septic tank. No electric power is necessary to operate the septic tank. No service works or permanent maintenance works are required or necessary during operation. **The INCA septic tank** is made from Linear Low Density Polyethylene (LLDPE). It is a one-piece rotationally molded plastic part manufactured from virgin LLDPE resin. The design of the septic tank provides maximum strength and ease of handling. Wall strength is further reinforced by a step-formed profile.

The INCA septic tank is designed to be completely buried in the ground. Based on actual performance, it assures sanitation and hygiene and is suited for

households, offices, factories, schools or churches. It saves space, easy to install and does not require sedimentation treatment.

Septic tanks are used to collect organic waste and its primary function is to liquefy and precipitate solid wastes. Sewage discharged into the tank is retained, and during its retention period, about 70% of the suspended solids of the sewage is removed largely by sedimentation to form sludge which accumulates at the bottom of the septic tank, and floating scum at the surface of water level of the septic tank. Anaerobic bacteria forming liquid and gasses of methane & carbon dioxide process both scum and sludge. This process is called digestion via decomposition of organic matter. To propagate bacteria to digest and decompose the waste, it is important that an adequate internal surface be made available inside the tank for the bacterial activity. The digestion process in a well design septic tank should be able to reduce the Biochemical Oxygen Demand (BOD) level from 300 BOD to 50 BOD. The BOD level is the pollution load in raw sewage. The higher the BOD level, the more polluted the sewage and vice versa.

In the standard two chamber septic tank (1000 liters) made of concrete / hollow blocks, the total surface area available for bacterial activity is 9 sqm.

Inca has developed a better design with an equivalent performance of the standard 1000-liter concrete septic tank. The 2-chamber STA 600L polyethylene plastic septic tank (600 liters effective capacity) has a similar internal surface area of 9 sqm but with a significantly smaller outer dimension allowing less earth excavation, smaller area to install, less labor for installation and reduced overall cost of the septic tank. Despite a smaller size, the same surface area for bacterial digestion is achieved mainly due to the unique internal surface design of the tank and the addition of the appropriate number of filter media inside the filter chamber of the septic tank.



ACCREDITATION:	H.U.D.C.C. certificate no. 2003-0010
MODEL:	STA 600L
Total Capacity:	600-liters/ day flow rate
Production process:	Rotational Molding Technology. Seamless one piece body
Inner diameter:	790 mm
Outer diameter:	1250 mm
Height:	1075 mm
Inlet depth:	200 mm
Outlet depth:	250 mm
Pipe size:	102 mm
Internal surface area:	9 sq. meters

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