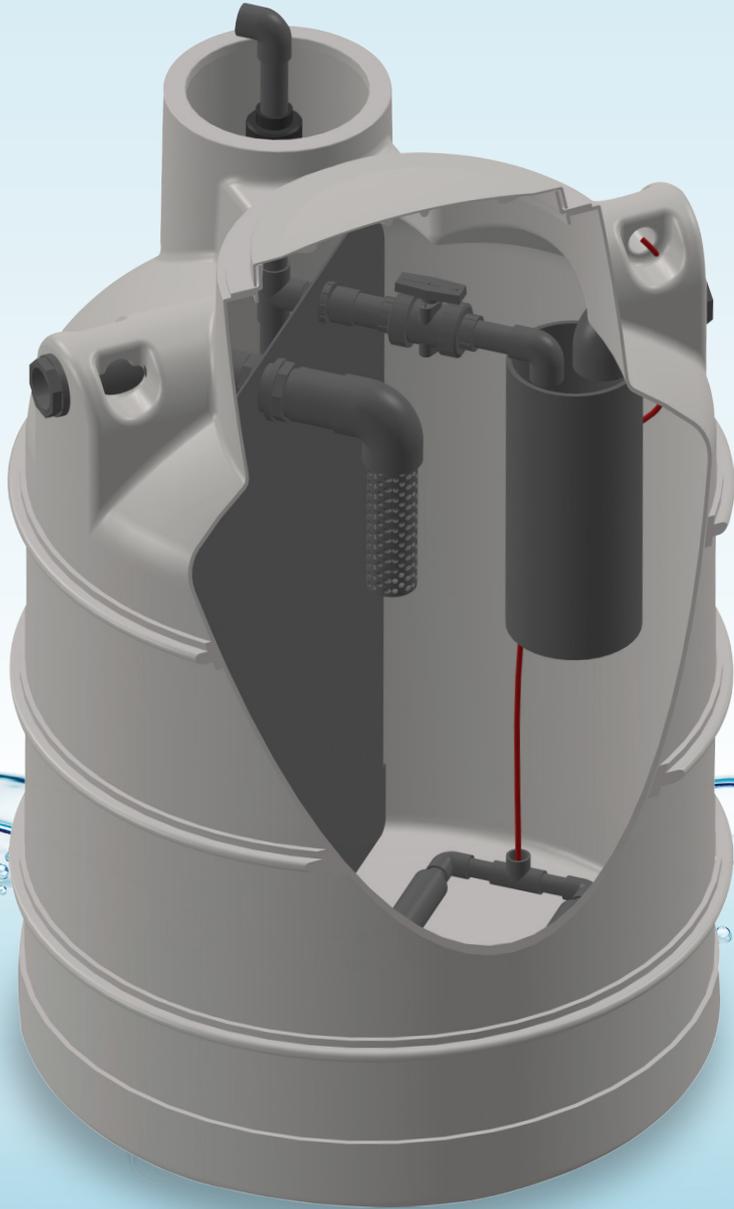




REACTO™ ASP

A technovative solution for decentralized **Sewage Treatment**



- 96% **Pollutant Removal**
-  **BioMedia System**
-  **Strong & Compact**
- 1-90 **Inhabitants Served**
-  **Odourless**
-  **Simple Installation**

Technovation by :
awatech
transforming technologies

We help our clients with their most complex urban environmental regulatory challenges by building tailored / ready to use solutions at the most affordable costs as well as lowest operational costs with our functional expertise to work on strategy, efficiency and technological innovations based on local conditions and customer requirements.



EC0509/2018:0918

REACTO ASP

This **compact sewage treatment** plant is designed for domestic installations for up to **90** inhabitants. It's continuous aeration process delivers a pollutant removal level of **96.2%** while combating common problems like media blockage & inadequate oxygen supply.

REACTO ASP PARTS & PROCESS

1. Collection Sump :

Wastewater from the dwelling toilets, sinks, shower etc. enters the plant at it's Collection Sump and gross solids settle at the bottom of the tank separating up to 70% of the solid waste.

2. BioZone ASP Unit :

Stage - 1 (Screen Chamber):

Wastewater enters passing through the screen. Coarse air bubbles are used to physically break down solid matter to form mixed liquor with the water. The screen also provides a buffer for any non degradable material and prevents it from entering the BioZone

Stage - 2 (BioZone):

The mixed liquor flows into the BioZone, where the majority of the treatment process occurs. Fine bubble

generating diffusers at the bottom of the BioZone provides the constant oxygen supply to bacterial culture in order to digest almost all pollutants present in mixed liquor and also to create turbulence ensuring constant circulation & treatment of the mixed liquor.

3. Final Settlement (Chamber 2)

The liquid then proceeds to the final settlement chamber. The process here slows down the velocity of the liquid allowing for any final trace of impurities to settle down at the bottom of the tank before discharging the treated liquid from the plant. A sludge return system returns these settled impurities back to the BioZone chamber. There is a separate desludging grid to remove access sludge from the plant. The treated liquid coming out of the REACTO ASP plant now meets the required regulatory standards.

BENEFITS

■ ACTIVATED SLUDGE PROCESS :

REACTO ASP is an advanced continuous aeration system; where desludging is done automatically so no sludge carry over issue occurs; which is commonly found in small treatment plants

■ DURABLE & STABLE PRODUCT

Since it is made from tough & durable polyethylene it is easy to transport and has a wide base of stability.

■ SAVES MONEY

System is compact in size and light in weight, which allows easy installation and lower maintenance costs.

■ EASY MAINTENANCE

The only component that requires maintenance is the compressor, located in an external housing; which is accessible without coming in contact with sewage.

■ COMPACT SYSTEM

Highly compact solution for up to 90 inhabitants.

■ LOW NOISE

With a near silent compressor housed externally, the operation of the system is virtually silent.

REACTO ASP SPECIFICATIONS:

Model	Capacity (liters)	Max flow/day (liters)	Per. Eq.	Req. Energy (kWh/day)	Weight (kg)	Height (mm)	Diameter (mm)	Desludging Interval
ASP - 1	1200	1000	4	1.12	40	1725	1200	150 days
ASP - 2	1200	2000	8	2.06	40	1725	1200	120 days
ASP - 3	1200	3000	12	2.40	40	1725	1200	90 day
ASP - 5	2700	5000	22	6.36	70	1725	1500	45 days
ASP - 10	6600	10000	44	11.52	250	2430	2240	30 days
ASP - 15	13200	15000	66	11.52	500	2430	4480	30 days
ASP - 20	13200	20000	90	14.56	500	2430	4480	30 days