Afg Water Treatment Technologies Ltd. Co.

Ayanoglu Neighborhood Süleyman Demirel Boulevard
No:70 Kepez / Antalya - Türkiye PK 07020
Tel : (+90) 242 327 00 17
Fax: (+90) 242 327 00 20

WASTEWATER TREATMENT SYSTEMS

Wastewater Series

Wastewater Treatment

It is a compact treatment plant designed for the biological treatment of domestic wastewater for 50-600 people. It consists of aeration, sedimentation, sludge stabilization tanks, and an operating cabin, all standardized for the specific population.

Wastewater Series

Wastewater is admitted to a gravity or pumping and aeration unit, depending on the location of the facility and the wastewater channel. Here, the organic matter is converted into carbon dioxide and water by aerobic bacteria. Air is introduced into the environment using blowers and diffusers to maintain aerobic conditions. In the aeration unit, the wastewater, having removed organic contaminants, passes into the sedimentation unit, along with the bacterial flocs. Here, the bacterial flocs are settled, separating the solids and liquids. The treated water from the sedimentation unit is disinfected by chlorination before being released into the receiving environment. If desired, the treated water can be filtered and used for garden irrigation. To maintain a constant level of bacteria in the aeration tank, the bacterial flocs (activated sludge) at the bottom of the sedimentation tank are transferred back to the aeration unit via an airlift system. Excess sludge is then transferred to the sludge stabilization unit. This unit injects air into the sludge, stabilizing it by preventing it from becoming septic. Several times a year, excess sludge is removed from the sludge stabilization unit by vacuum truck.

Packaged Wastewater Treatment Systems

MODEL	POPULATION Equivalent person	ATIC WATER m3 / day	DEVICE DIMENSIONS			REINFORCED CONCRETE STRUCTURES					
						Preliminary Settling Chamber			Balancing Chamber		
			B cm	L cm	H cm	B cm	L cm	H cm	B cm	L cm	H cm
AFG BIO 25	25	5	110	260	180	200	80	300	200	150	300
AFG BIO 50	50	10	160	300	260	200	80	300	200	150	300
AFG BIO 100	100	20	200	400	260	250	80	300	250	200	300
AFG BIO 150	150	30	220	530	260	300	100	300	300	250	300
AFG BIO 200	200	40	235	630	260	300	100	300	300	320	300
AFG BIO 250	250	50	235	680	260	300	100	300	300	320	300
AFG BIO 300	300	60	235	700	280	350	100	300	350	300	300
AFG BIO 350	350	70	235	750	280	350	100	300	350	350	300
AFG BIO 400	400	80	235	850	280	400	100	300	400	400	300
AFG BIO 500	500	100	235	1000	280	400	100	300	400	500	300
AFG BIO 600	600	120	235	1185	280	450	100	300	450	500	300
AFG BIO 750	750	150	235	1250	280	600	100	300	600	450	300
AFG BIO 1000	1000	200	235	1350	280	600	100	300	600	600	300

Standard Features

- Ease of operation and maintenance
- Low energy consumption
- Dimensions that do not take up much space
- Embedded or above ground applicability
- Corrosion resistance
- Ease of transportation and installation
- If the quality of the outlet water is required to meet the water pollution regulation standards, the use of the outlet water for irrigation purposes.