-AQUATOR OXYJET-
WASTE WATER TREATMENT UNITS

Field of Application

Compact treatment system, with combined biological process, with discontinuous phases. This system, also called suspended biomass or activated sludge(RAS), activates the sludge through completely automatized aeration cycles.

Advantages

•one unit;
•made of polyesters reinforced with glass fiber;
•heat insulating material;
•water-repellent, highly resistant to chemical corrosion and to the tear and wear;
• different variants with PEHD tanks.

Characteristics

The tank is divided into 4 water-proof chambers, each having a role in the carrying out of the biological waste water treatment. The unit has a cylindrical shape for the smaller models, or horizontal for the bigger units(for more than 50LE). The modular system uses the principle of the aerobic-anaerobic treatment of the waste water coming from areas whose connection to the sewerage network is not possible or is inefficient.

Materials

1.**Tank**	polyester reinforced with glass fiber;
2.**Inner separation wall (sludge/sand settling chamber)**	polyester reinforced with glass fiber;
3.**Input pipe**	PVC;
4.**Ouput pipe**	PVC;
5.**Air recirculation pipe**	PVC.

Operation Parameters

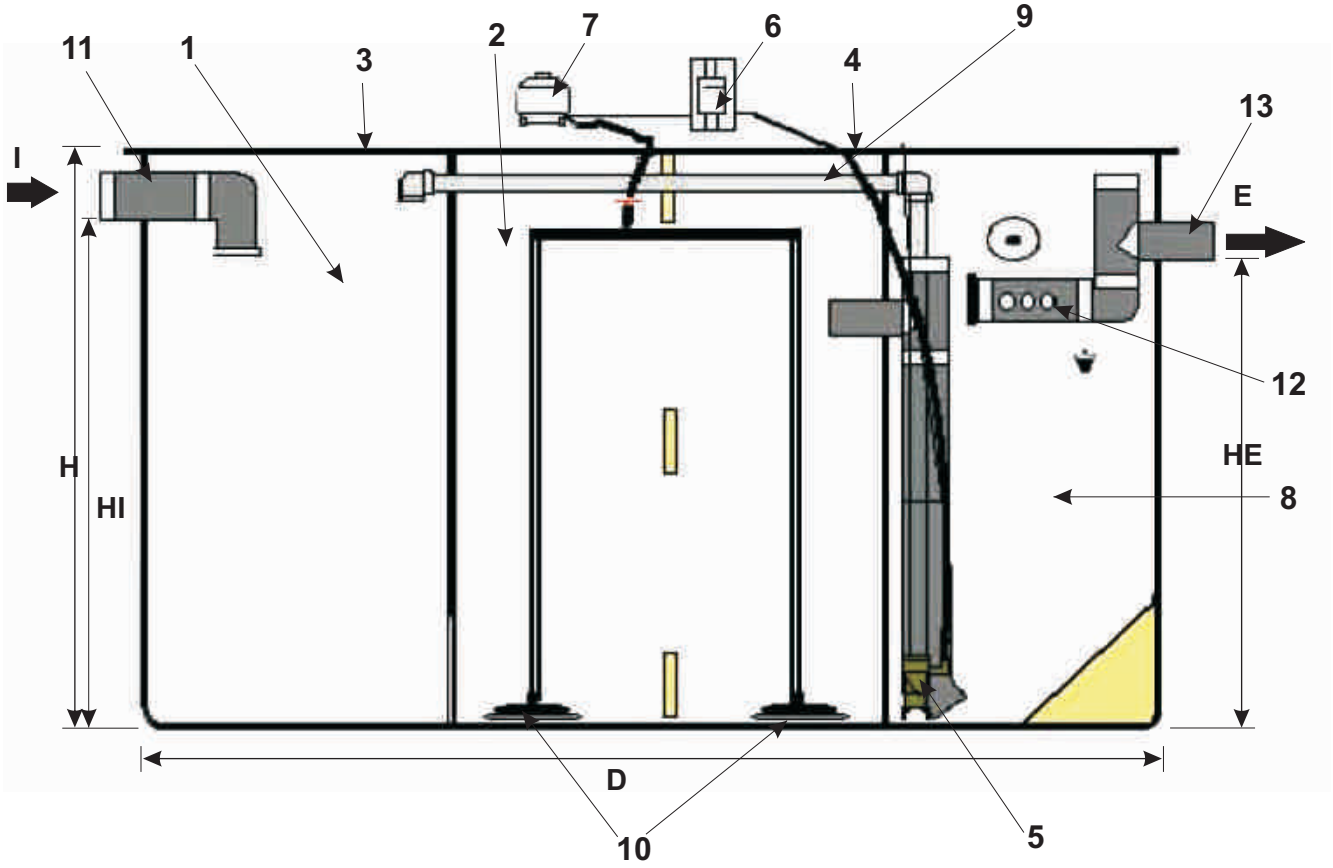
•hydraulic loading -200 l/person/day-60g CBO5 per day (project);
-100-150 l /person/day (primary treatment upstream);
•input paramaters, supposing that the NTPA 002/2002 requirements are abided by at the input:
-CBO5: ~ 15 mg/l;
-CCO-Cr: 50mg/l;
-solids 60 mg/l (20 mg/l- in the version with the fats chamber);
-N-NH4: 2 mg/l;
-P total 1 mg/l;
•reference norms -SR EN 12566:2006, HG 188/2002 si HG 352/2005.



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Components

1.**Primary settling chamber**
2.**Settling chamber**
3.**Manhole for solids emptying**
4.**Manhole**
5.**Sludge recirculation pump - Aer Lift**
6.**PLC**
7.**Blower**
8.**Final settling chamber**
9.**Sludge recirculation pipe**
10.**Aerator**
11.**Input pipe**
12.**Chlorinator with chlorine tablet**
13.**Output pipe**



Characteristics

Model	L.E.	Sizes						Capacity in l		Blower	Manholes
		Tank		Pipes		HI	HE	V Util	V Total	KW	
		D	H	D I	D E						D
1500	5	1200	1400	125	110	1230	1200	1350	1580	0,3	400-200
2000	8	1300	1600	125	110	1430	1400	2100	1840	0,3	400-200
2500	10	1300	1950	125	110	1780	1740	2570	2290	0,3	400-200
3000	12	1600	1600	125	110	1430	1400	2800	3200	0,5	400-200
3500	14	1600	1800	125	110	1630	1600	3200	3610	0,5	400-200
4000	16	1800	1650	125	110	1480	1440	3650	4200	0,5	400-200
4500	18	2000	1850	125	110	1680	1640	4160	4690	0,5	400-200
5000	20	2000	1700	125	125	1530	1500	4710	5350	0,5	400-200
6000	25	2000	2000	160	125	1780	1710	5360	6280	0,5	400-200
7500	30	2200	2050	160	125	1840	1760	6700	8360	0,5	400-200
8500	35	2500	2350	160	125	2140	2060	7820	8740	0,75	400-200
10000	40	2500	2200	160	125	1990	1910	9350	10800	0,75	400-200
12500	50	2500	2650	160	125	2440	2360	11560	12900	0,75	400-200