-AQUATOR DEG-
FATS SEPARATOR

Field of Application

Aquator DEG fats separators are used for separating the starch and the fats through a gravitational process, on account of these substances property to have a specific weight inferior to water specific weight, <95mg/cm^3.

Advantages

All Aquator DEG fats separators can be supplied with the following optional equipments- acoustic/visual alarm for the detection of the fats level in the tank, therefore preventing the system saturation.

Characteristics

The product is made up of the fats accumulating chamber, of the sedimentation chamber, of the manhole for the solids emptying, of the manhole for the fats extraction and of the bio-gas ouput. The lower part of the separator is divided into 2 chambers: of sludge/sand settling chamber and of the clarification chamber. The separator needs to be periodically checked for taking the solidified fats from the surface and for emptying the sludge and the sand from the accumulating chamber.

Parameters

• hydraulic loading :	1 le=50 l/pers/day; 1 mass =30-35 l/pers/day; 1ce=10 l/washing dish;
• efficiency indicators :	fats removal / starch ~80-90%;
• norms:	SR EN 1825/2004 HG 188/2002.

Materials

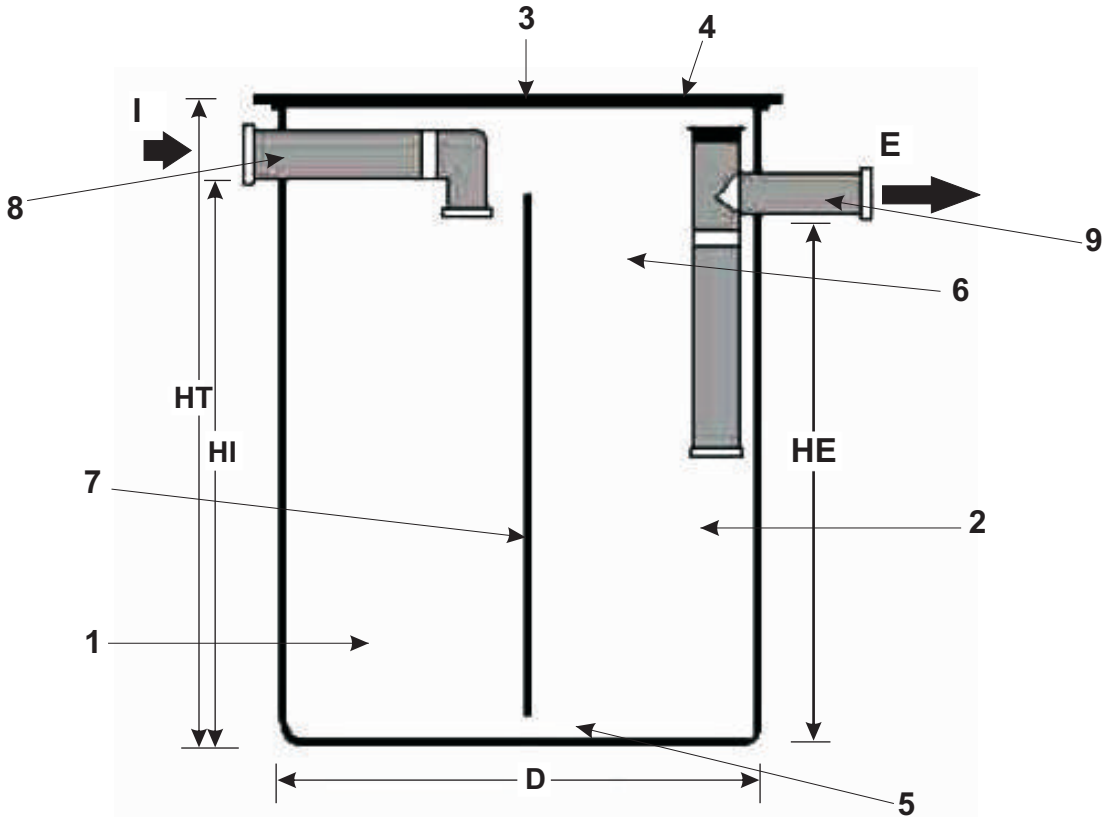
1.**Tank**	polyesters reinforced with glass fiber;
2.**Inner separation wall (sand/sludge settling chamber and clearing chamber)**	polyesters reinforced with glass fiber;
3.**Input pipe**	PVC;
4.**Output pipe**	PVC.



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Components

1.**Primary settling chamber**
2.**Clearing chamber**
3.**Manhole for solids emptying**
4.**Manhole for fats extraction and biogas output**
5.**Sludge/sand settling chamber**
6.**Clearing chamber**
7.**Separation wall**
8.**Input pipe with deflector**
9.**Output pipe**



Characteristics

Model	L.E.	Mass	Sizes			HI	HE	Flow	Capacity in liters			Manholes
			Tank		Pipes			l/s	V	V	V	
		Day	D	H	D I/E				Fats	Sed	Total	D
800	2	40	750	1000	75	875	800	0,18	60	290	440	400
600	4	60	900	1100	90	960	875	0,20	140	550	690	400
800	8	80	1000	1200	110	1040	975	0,50	170	760	925	400
1000	10	100	100	1500	110	1340	1270	1,0	250	920	1170	300-200
1250	15	125	1200	1300	110	1140	1060	1,50	350	1020	1370	300-200
1500	20	150	1200	1480	110	1320	1250	1,80	420	1250	1670	300-200
1750	30	175	1200	1710	110	1590	1520	2,0	470	1430	1890	300-200
2000	40	200	1300	1650	125	1470	1400	2,20	550	1620	2170	300-200
2500	50	250	1600	1350	125	1170	1100	2,20	675	2025	2700	300-200
3000	60	300	1600	1680	125	1440	1360	2,50	780	2420	3230	400-200
3500	70	350	1600	1840	125	1660	1580	3,0	920	2760	3680	400-200
4000	80	400	1800	1740	125	1560	1480	3,50	1050	3305	4410	400-200
4500	90	450	1800	1840	125	1680	1600	4,0	1120	3620	4740	400-200
5000	100	500	2000	1740	125	1560	1480	4,50	1240	4160	5400	400-200
6000	120	600	2000	2050	160	1830	1750	5,0	1480	4950	6430	400-400
7000	140	700	2200	1960	160	1740	1660	7,0	1710	5730	7440	400-400
8000	160	800	2200	2250	160	2030	1950	9,0	1970	6580	8550	400-400
9000	180	900	2200	2490	160	2260	2080	12.0	2170	7250	9520	400-400
10000	200	1000	2500	2250	160	2030	1950	15,0	2480	8320	11020	400-400