-AQUATOR IMHOFF-
SEPTIC TANKS

Field of Application

Imhoff septic tanks are used for the primary treatment. Their characteristics allow the septic tanks to carry out two treatment phases: the settling phase (physical process) and the digestion phase (the biological process).

Advantages

•they can be used as pre-treatment elements in the case of the secondary treatments, with discharge in the surface emissary;
•they progressively accumulate the organic loading;
•they turn the substances into water, into methane gas and into carbon anhydride, during the anaerobic phase. Thus, they stabilize the sludge;
•they treat the black municipal waters, with discharge into the subsoil or into the sewerage network.

Variants

•By shape
- cylindrical -vertical - horizontal

• By compositon
- polyesters reinforced with glass fiber - PEHD

• By emplacement
- pedestrian - causeways

Parameters:

•organic load 30-40 l sedimentation;
80-90 l/person digestion;
•output treatment limits:
- the reduction of the organic load: 50-60 %
- the removal of the sedimentable solids, total 80-90%;
- CBO5 reduction (biochemical consumption of oxygen): 35-40%;
- solids reduction in suspension: 60%;

•norms : NTPA 002, approved through the Government Decision 188/2002 and its subsequent amendments.

Materials

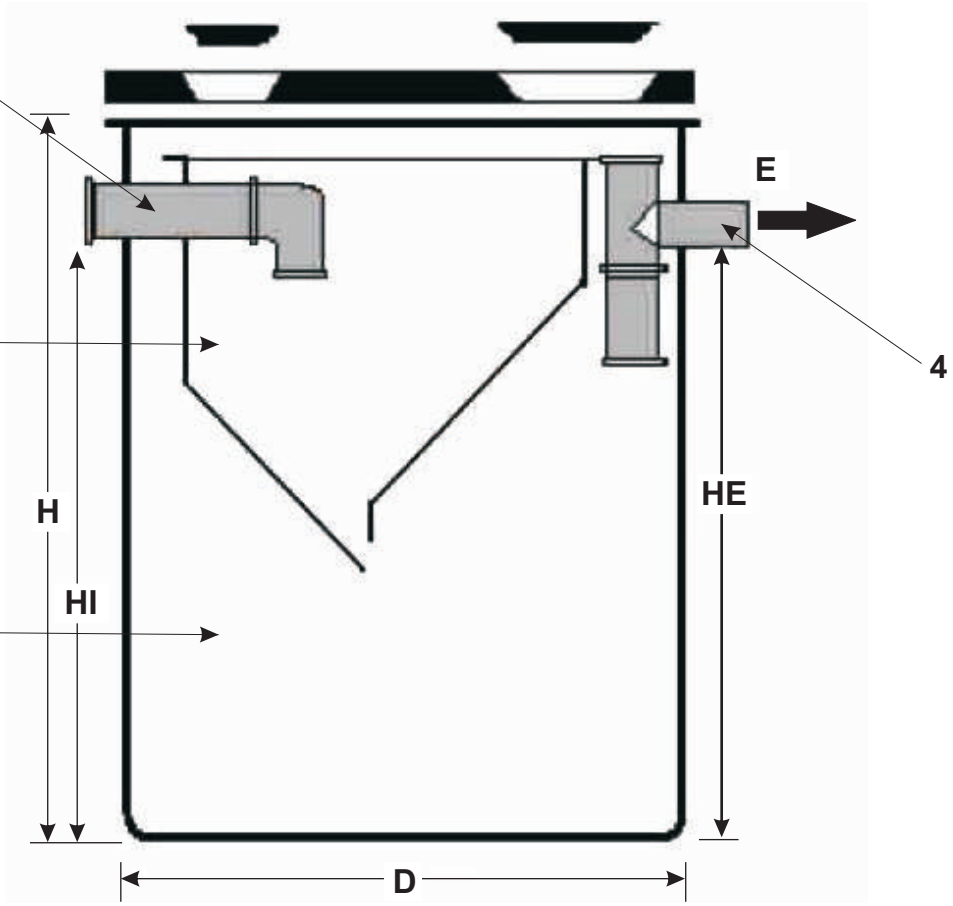
1.**Tank Body** polyester reinforced with glass fiber;
2.**Input / output pipe** PVC.



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Components

1.**Primary tank**
2.**Secondary tank**
3.**Input pipe**
4.**Output pipe**



Characteristics

Model	L.E.	Sizes					Capacity in liters			Manholes
		Tank		Pipes	HI	HE	V	V Con	V	
		D	H	D I/E			Total	Sed.	Decomp.	D
800	4	1000	1250	110	1090	1040	950	170	470	420
1000	6	1000	1400	110	1250	1200	1090	240	660	420
1500	8	1200	1450	110	1300	1250	1580	320	880	420
2000	10	1300	1650	125	1500	1450	2100	400	1100	420
2500	15	1300	1970	125	1820	1770	2600	600	1650	420
3000	20	1400	2050	125	1900	1850	3160	800	2200	420
3500	25	1600	1830	125	1660	1610	3650	1000	2700	420
4500	30	1800	1900	125	1720	1670	4750	1200	3200	420
5000	35	1800	2050	125	1840	1800	3500	1400	3850	420-220
6000	40	2000	1030	160	1820	1780	6280	1670	4320	420-220
7500	50	2200	2100	160	1880	1830	7720	2100	4860	420-220
9000	60	2500	1900	160	1680	1630	9250	2460	6460	420-220
12000	80	2500	2550	160	2260	2210	12380	3320	7880	420-220
15000	100	2500	3280	200	3060	3010	16000	4250	1070	420-220