

PURIFYING SYSTEMS

IMHOFF-TYPE SEPTIC TANKS for the disposal of domestic wastewaters

DESCRIPTION

Imhoff-type septic tank for the disposal of domestic wastewaters, in conformity with the parameters taken from Point 4 of Annexe 5 of Inter-Ministerial Committee Deliberation for Water Protection dated 4th February 1977. The system is formed of a cylindrical FRP tank (dia....., H.....), with CLASS A15 cover (pedestrian traffic) or B125 (lightweight traffic), that can be inspected. The tank is made up of layers of fibreglass, with a top layer of fibreglass gauze, and with reinforced upper and bottom edges; the tank is supplied complete with all necessary accessories for the operation. The system, of capacity -----users, and -----lt, comprises two treatment process phases: primary sedimentation and anaerobic digestion.

TREATMENT PROCESS

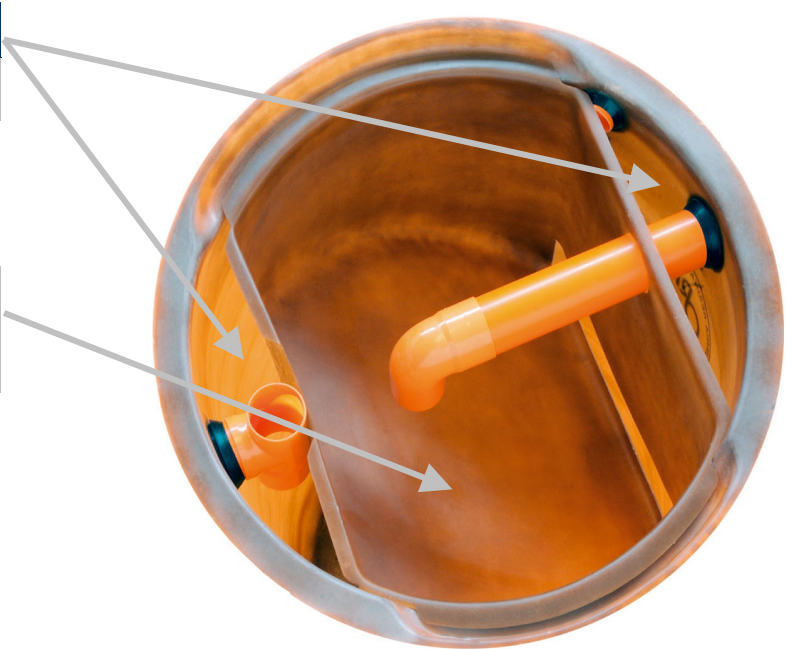
The Imhoff-type septic tank consists of a main circular tank with a smaller one fitted inside. The incoming wastewater is collected inside the sedimentation compartment from where it flows to the anaerobic digestion compartment (i.e. the main circular tank), through an opening of the inclined bottom of the sedimentation compartment.

1st phase
PRIMARY SEDIMENTATION

Sedimentation of the solid substances present in the wastewater.

2nd phase
ANAEROBIC DIGESTION

Biologically stabilisation of the settled organic substances (anaerobic digestion).



PROJECT DATA

Sized according to a number of parameters taken from Point 4 of Annexe 5 of Inter-Ministerial Committee Deliberation for Water Protection dated 4th February 1977.

Sedimentation	lt/IE 40÷50	Anaerobic digestion	lt/IE 100÷120
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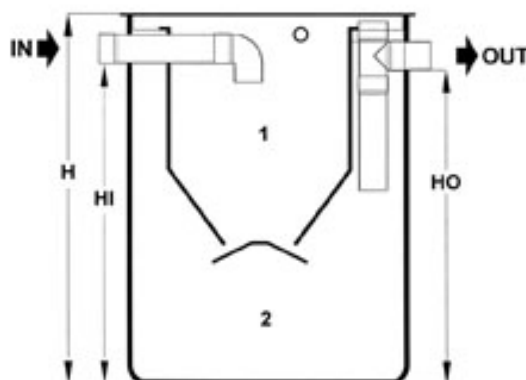
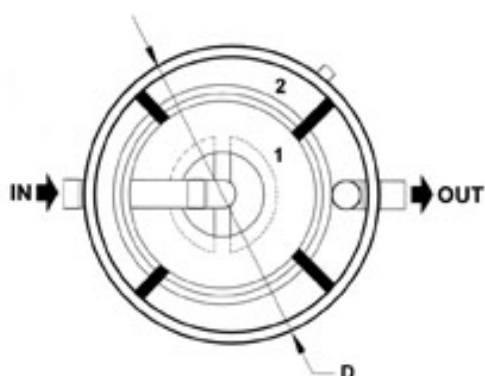
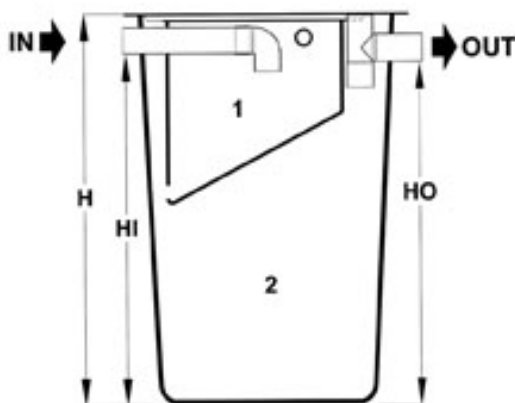
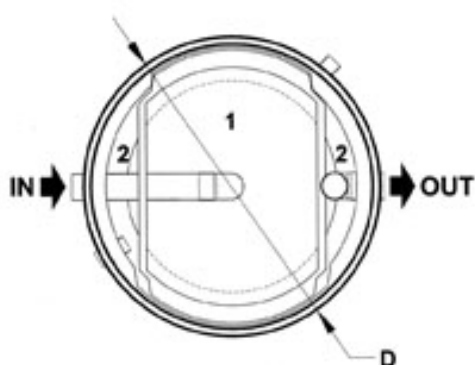
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People	D Inside diameter mm	H Total height mm	HI Height at inlet mm	HO Height at outlet mm	Ø IN mm	Ø OUT mm	Capacity litres	Weight kg
N.								
*5	950	1450	1300	1270	100	100	750	40
*7	1060	1550	1400	1370	100	100	1060	48
*9	1200	1550	1400	1370	100	100	1380	61
11	1200	1600	1385	1355	125	125	1582	72
13	1400	1740	1525	1495	125	125	2370	95
16	1600	1650	1435	1405	125	125	3000	95
20	1600	1900	1685	1655	125	125	3400	110
25	1600	2200	1985	1955	125	125	3750	170
30	1800	2100	1865	1835	125	125	4500	195
35	1800	2400	2165	2135	125	125	5300	220
40	1800	2700	2465	2435	125	125	6000	240
40	2000	2250	2015	1985	125	125	6000	240
50	2000	2700	2465	2435	125	125	7500	290

(*) This model can be stacked.

The measurements indicated may be modified on the basis of the local provisions of competent authorities.



1. PRIMARY SEDIMENTATION

2. ANAEROBIC DIGESTION