SLUDGE TRAP WORKING

CHARACTRISTICS

A sludge trap is a device used to retain sludge, including: soil, sand, gravel and solid waste of all kind contained in wastewater and runoffs.
The installation of a sludge trap is specially recommended for the following cases:

a) For garages, workshops, car washes, service stations, etc., and recommended whenever the use of a hydrocarbon separator is required.

b) In hotels, bars, restaurants, butcher shops, food industries, etc.., and all establishments where food residues can be removed with the wastewater.

c) In all cases in which the wastewater produced can contain food remains or others that are prohibited to pour into public sewers and / or that may cause blockages in pipelines.

The volume of the sludge trap:

a) In combination with a hydrocarbon separator:

- **Class 1** (slightly polluted water): 100 x separator flow. Example: covered parking
- **Class 2** (polluted water): 200 x separator flow. Example: Car wash
- **Class 3** (heavily polluted water): 300 x separator flow. Example: Cleaning of farming.

b) In combination with a grease trap:

40 litres x 1 litre/second of the flow of the grease trap. Example: grease trap 10 l/s x sludge trap = 40 x 10 = 400l.

The sludge trap is designed according to **DIN 4040**, responding to the following specifications:

- o Liquid surface:.............. $0,25 \ m^2$ x liter / second
- o Retention time:..........3 minutes.
- o Efficiency:................... 92%

All our sludge traps are equipped with adjustable riser.

The following table shows to what class belongs our sludge traps for particular use:

	SV 300	SV 500	SV 850	SV1100	SV1600	SV2400	SV3300	SV6000
Class 1	1,5 l/s	3 l/s	6 l/s	10 l/s	15 l/s	20 l/s	30 l/s	-
Class 2	-	1,5 l/s	3 l/s	5 l/s	8 l/s	10 l/s	15 l/s	30 l/s
Class 3	-		1,5 l/s	3 l/s	5 l/s	8 l/s	10 l/s	20 l/s

Working

Polluted effluents are introduced into the sludge trap by a grating. The sludge, whose density is generally higher than the water, is decanted. The waste water coming out from the sludge trap is reduced by over 90% of the initial sludge.