



This information is brought to you by
Owls Hall Environmental working in
partnership with Klargester products.



Excellent Treatment

0845 375 1801
www.ohel.co.uk

WASH DOWN & SILT SEPARATORS



INTRODUCTION

Separators serving wash-down areas such as car wash and other cleansing facilities must discharge directly into a foul drain, which feeds to a municipal treatment facility.

Such wash down facilities must not be allowed to discharge directly into either surface water or any oil/water separator discharging into a surface water as they utilise emulsifiers, soaps and detergents, which can dissolve and disperse the oils and upset the separation process.

Silt separators can be used as a supplementary unit to remove additional silt before other Separators or treatment units. If emulsifiers are present the discharge must not be allowed to enter a NS class 1 or class 2 unit.

APPLICATIONS

These units can be used to serve vehicle wash down areas and car wash facilities, although it should be noted that the prime function of such separators is for the removal of silt.

Typical locations using wash down separators are; -

Car wash, tool hire depots, truck cleansing, construction compounds cleansing points.

Locations requiring silt separators are; -

Highly silted sites where NS separators are used, i.e. works constructions sites and temporary work compounds.

OPERATION

As contaminated water passes through the separation chamber, it is retained long enough to allow immiscible hydrocarbon pollutants, such as oils and petrol to accumulate on the surface of the water and settleable solids to sink to the bottom of the unit. Our design uses a maximum of 6 minutes retention time, at the flow rate given. The separator water is able to discharge safely without the risk of oil pollution to the municipal plant. It is generally accepted that greatest separation efficiency for oil is gained by using a single chamber separator as the pollutants have more time to separate.

The nature of the silt varies depending on either the ground or surface receiving the flow. These aspects should be considered when selecting the size of the unit in relation to the flow being treated.

CONSTRUCTION

Klargester oil/water separators are manufactured from durable, rot and corrosion proof glass reinforced polyester

combining lightweight with outstanding strength. The units are delivered complete with inlet and outlet pipework as well as factory fitted access shafts to ensure quick and easy installation on site.

INSTALLATION

The unit should be installed on a suitable concrete base slab and surrounded with a concrete backfill.

If the separator is to be installed within a trafficked area a suitable cover slab must be designed to ensure that superimposed loads are not transmitted to the top or sidewalls of the unit.

Separators should be vented in accordance with BS8301:1985:Building Drainage or Health and Safety Guidance Note HS(G)41 for filling stations subject to Local Authority requirements.

Detailed installation guidelines are provided with the unit and are available separately on request.

The unit retains mainly silt which collects within the separator. It should be removed periodically to ensure that maximum effectiveness of the unit is maintained. The amounts of silt collected varies in relation to the source and use and maintenance intervals should take these factors into account.

Oil may also accumulate, if there are no emulsifiers and should be periodically removed. In the event of a major oil spillage the separator should be emptied immediately.

QUALITY

Klargester separators are widely used and specified by Local Authorities, National Environmental Regulatory bodies and Licensing Authorities, including the London Fire & Civil Defence Authority.

All Klargester products are manufactured under BS EN ISO 9002 Quality Management System accreditation.

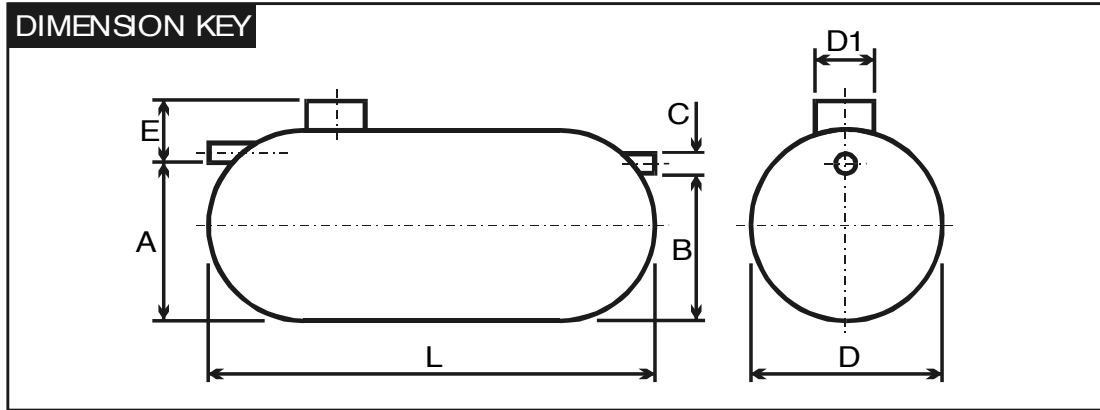
PRODUCT SELECTION

To select the correct separator for your application turn to the table overleaf or alternatively consult our Technical Sales Department at our head office in Aston Clinton (01296 633014).

If a Nominal size Full Retention or Bypass Class 1 or Class 2 unit is required, please see alternative data sheets.

Klargester have fully trained technical representatives operating throughout the UK who can offer on-site advice on request.

WASH DOWN & SILT SEPARATORS



Ref.	Total Capacity (Litres)	Maximum Rec. Silt Volume	Maximum Flow Rate (l/s)	Main Dimensions (mm)								
				Length (L)	Diameter (D)	Access Shaft Dia. (D1)	Base to Inlet Invert (A)	Base to Outlet Invert (B)	Standard Fall Across Unit	Min. Inlet Invert (E)	Standard. Pipework Diameter (C)	Approx. Empty Weight (Kg.)
W1/012	1200	600	3	1310	1225	460	1150	1100	50	500	160	60
W1/020	2000	1000	5	2210	1225	460	1150	1100	50	500	160	120
W1/030	3000	1500	8	3060	1225	460	1150	1100	50	500	160	150
W1/040	4000	2000	11	3910	1225	460	1150	1100	50	500	160	180
W1/060	6000	3000	16	4530	1440	600	1360	1310	50	500	160	320
W1/080	8000	4000	22	3200	2020	600	2005	1955	50	500	160	585
W1/100	10000	5000	27	3915	2020	600	2005	1955	50	500	160	680
W1/120	12000	6000	33	4640	2020	600	2005	1955	50	500	160	770
W1/150	15000	7500	41	5435	2075	600	1940	1890	50	500	160	965
W1/190	19000	9500	52	6865	2075	600	1940	1890	50	500	160	1200

The units above all include a single chamber, (W1) but on request, we may be able to provide with 2 or 3 chambers. If you require larger units, these are also available. Please contact us to discuss your specific application

Invert depths (E) can be supplied in additional increments of 500mm from the minimum stated above. Please indicate the inlet drain invert required when specifying units. Maximum 2.0 m.

To purchase or specify the Klargest separator you require, the following information is needed.

- The number of chambers and type of separator. Prefix Reference (see table) with:
- W1 – If you require a single chamber oil/water separator
- W2 – If you require a 2 chamber oil/water separator (1200 litre not available)
- W3 – If you require a 3 chamber oil/water separator (1200 litre not available)

- The capacity of the separator in litres (see table),
- Drain inlet invert depth
- Inlet & outlet Pipework size if not the standard 160 mm PVCu

Note: We will assume that you require the standard unit unless you have specified differently. Additional charges may apply to alternate specifications

Non-standard inlet/outlet pipe sizes and reduced falls across the unit may be provided but please note we do not alter internal pipework dimensions. Please contact the Technical Sales Department for advice and to discuss your requirements available.



Klargester Environmental Ltd.
College Road, Aston Clinton, Aylesbury, Bucks, HP22 5EW
☎ 01296 633014
☎ 01296 633001
<http://www.klargester.co.uk>
uksales@klargest.co.uk



Manufacturing and distribution units also at:

East Kilbride ☎ 01355 248484 Belfast ☎ 02890 365664 Fire ☎ 1 800 626112
In keeping with the Company policy of continuing research and development, Klargest reserves the right to alter specifications and drawings without notice.
T TDS0037 Issue 3 February 2003