

# Oil Water Separators



**Environmental Solutions**

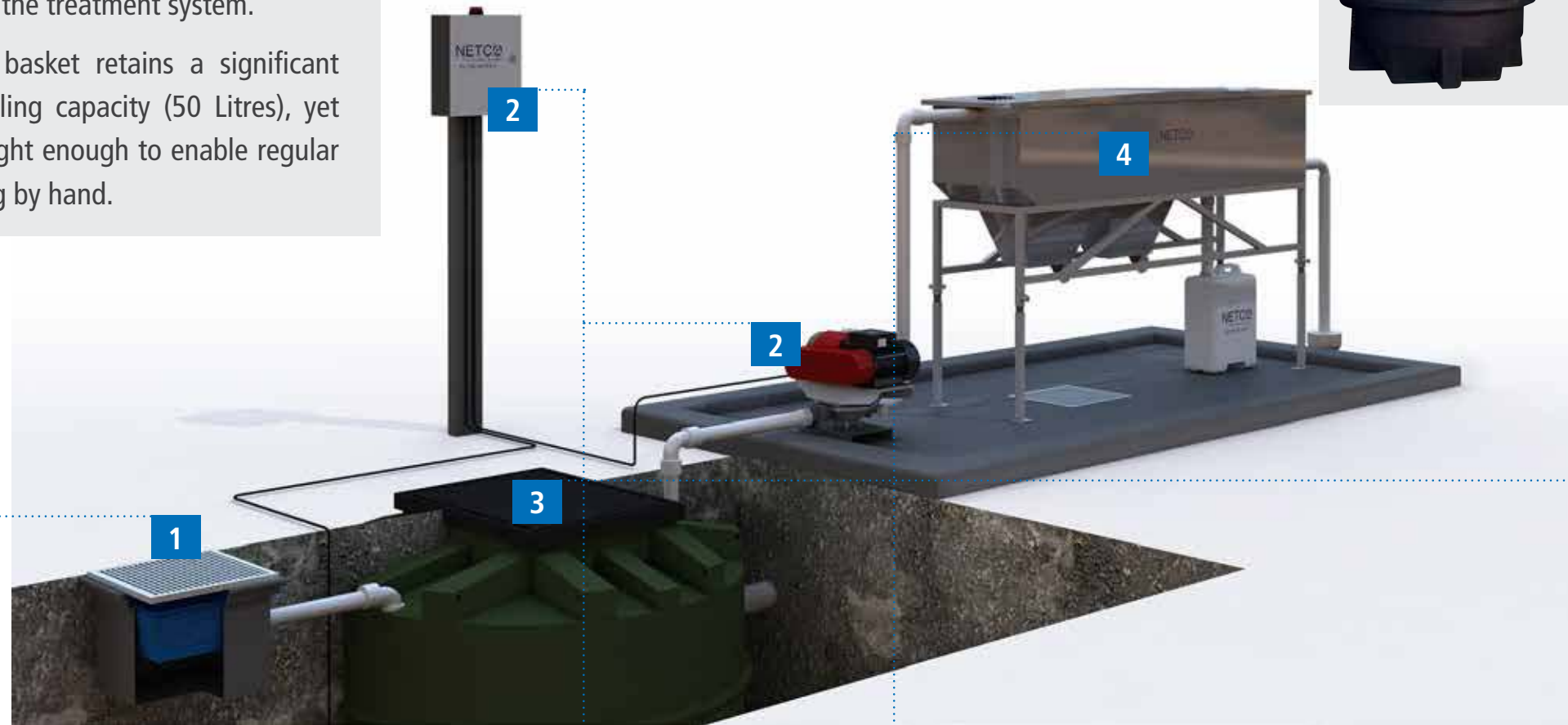
# OIL WATER SEPARATOR TREATMENT TRAIN



## 1. Gross Pollutant Trap

All wastewater that flows from wash-down is initially directed to the pollutant trap, which prevents the large majority of solids and trash from entering the treatment system.

The silt basket retains a significant silt-handling capacity (50 Litres), yet is also light enough to enable regular emptying by hand.



## 3. Holding Tank

The wastewater flows from the pollutant trap to the holding tank, which enables final settling out of any fine suspended solids prior to pumping to the treatment system.



## 2. Pump & Control Panel

Float level switches in the holding tank provide the signal to start the pump, and wastewater is pumped from the holding tank to the Oil/Water Separator.



## 4. Oil Water Separator

Wastewater flows through the Oil/Water Separator at a measured flow before returning to the sewer network. These separators utilise the difference in specific gravity between the components of a liquid stream, promoting the coalescing of oil droplets and the separation of oil from water.



## STAINLESS STEEL SEPARATORS

These class Separators are manufactured from durable 304 grade stainless steel and utilise coalescing tube packs for gravitational separation. 316 grade stainless steel construction is available for marine or corrosive environments. As an additional safety measure these units also contain 100 micron sock filters in the outlet ensuring every drop of treated liquid is subjected to a final scrutiny before being released to sewer. There are 4 models available.



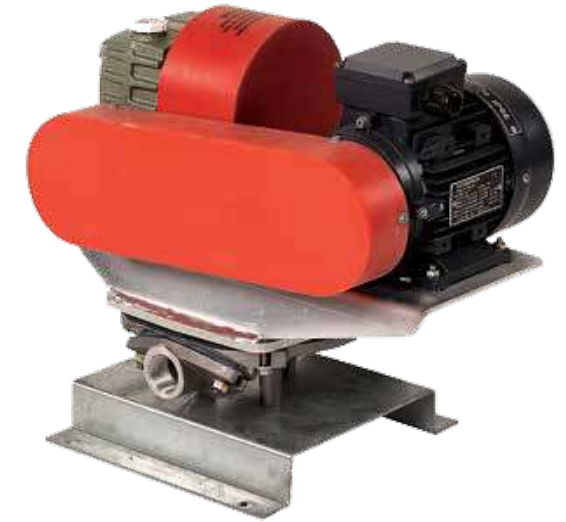
Model	Flowrate	Dimensions (LxWxH*)
NPSS –1000	1000 litres per hour	1250 x 370 x 1200 mm
NPSS –1500	1500 litres per hour	1250 x 455 x 1200mm
NPSS –3000	3000 litres per hour	1935 x 455 x 1200mm
NPSS –6000	6000 litres per hour	2330 x 660 x 1580mm

## PUMPS

At the heart of an oil water separation system there is always a pump and Netco utilises and recommend a diaphragm pump for these systems.

These mechanically operated, solids handling, non emulsifying and self priming pumps are very simple in operation and require very little maintenance. These pumps can also be geared very exactly to provide the proper design flow for the separator ensuring the liquid is treated at the correct rate.

These pumps are also available with explosion proof motors for hazardous areas such as service stations.



## POLYETHYLENE SEPARATORS

Netco Polyethylene Separators utilize a coalescing plate pack and are manufactured from U.V stabilised, chemical and impact resistant polyethylene which is a lighter and less expensive than other materials. These separators are a very simple design and easy to clean and maintain. Four sizes are available.



Model	Flowrate	Dimensions (LxWxH*)
NPPS –1000	1000 litres per hour	1410 x 420 x 1510 mm
NPPS –1500	1500 litres per hour	1500 x 750 x 1510 mm
NPPS –2000	2000 litres per hour	1100 x 1100 x 1450 mm
NPPS –3000	3000 litres per hour	1100 x 1100 x 1450 mm

## POLLUTANT TRAPS

An important part of any oil water treatment system is a pre-treatment silt trap to collect and prevent the majority of solids and trash from entering the treatment process. This not only protects your valuable investment but also means a much greater time span between expensive pit cleaning by a contractor.

The non corrosive impact resistant polyethelene basket has significant silt handling capacity yet is light enough to enable emptying by hand. Units are available in two configurations, with a by pass unit available for those situations where a clogged silt trap could result in flooding of buildings or adjoining properties. The Netco pollutant trap is a complete unit including polyethylene pit, medium duty grate and polyethylene silt basket, providing a quick and easy solution for the installer.



## STORMWATER BY-PASS INTERCEPTOR

The Netco SBI 600 Stormwater By-pass Interceptor is an at-source treatment device that not only removes gross pollutants and fine silt from stormwater run-off, but effectively captures hydrocarbons and other light-liquid pollutants off smaller catchment areas.

Manufactured from tough roto-moulded polyethylene, the unit incorporates an easily removable inlet silt arrestor/solids filter to prevent gross pollutant entering the stormwater drainage system as the first treatment stage. In the second phase of treatment, the quiescent zone ensures the necessary detention time to both remove the fine silt that would otherwise clog the stormwater reticulation system, and to trap fine oil droplets that wash off carparks and other vehicle storage areas.

For storm inflows in excess of the treatment flow, the surplus flow by-passes the detention chamber and flows directly to the discharge, thus protecting the integrity of the unit and preventing surcharging.



## DEMAND DRIVEN DIVERSION SYSTEM

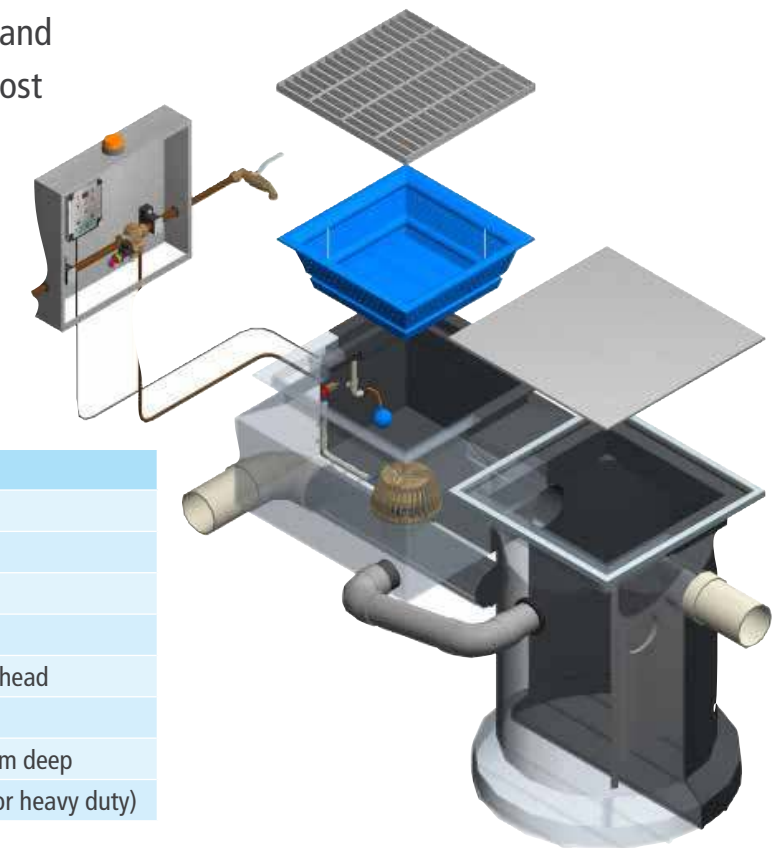
The demand driven diversion system supplied by Netco is a single storm-water pit system that diverts water to a treatment process during a wash down operation.

The wash down operation is detected by a demand valve installed in the waterline and this operates the diversion valve ensuring run off from any washing process is captured for treatment. When there is no washing process being carried out water is directed to the storm-water as per usual. The demand valve is also supplied as part of the package.

The package includes a polyethylene pit with the diversion valve, medium duty galvanised grate and a polyethylene silt basket.

## FIRST FLUSH DIVERSION SYSTEM

The first flush diversion system supplied by Netco is designed for use in areas where there is no guarantee that the wash bay will be left clean at the completion of a wash activity. This system is designed to capture the initial runoff and divert it to suitable treatment, as it is most likely that this initial runoff will carry with it any residual pollutants that have been left on the site.



Technical Specifications	
Chamber Capacity	130 litres
Material	6mm MDPE
Silt Basket Capacity	50 litres
Strainer size	9mm Holes
Diversion Valve Flow Rate	1200 L/min @ 0.5 metres head
Outlet size	100mm or 150mm
Chamber size	695mm x 695mm x 485mm deep
Grate	Galv steel 600mm <sup>2</sup> (med or heavy duty)



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