



Environmental Solutions



✓ Oil Water
Separators

✓ Treatment
Systems

✓ Diversion
Systems

Working with you.

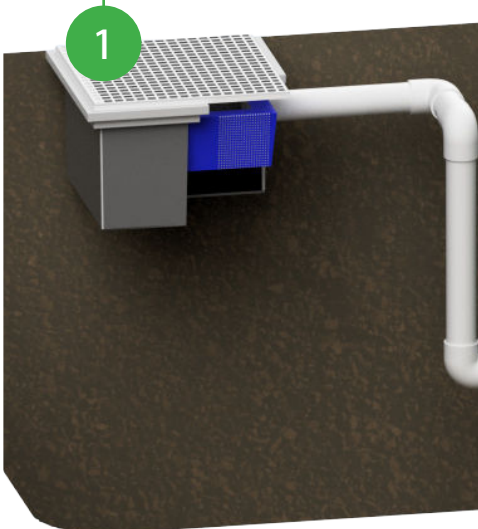
TYPICAL OIL WATER SEPARATOR TREATMENT PROCESS

1. Gross Pollutant Trap

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



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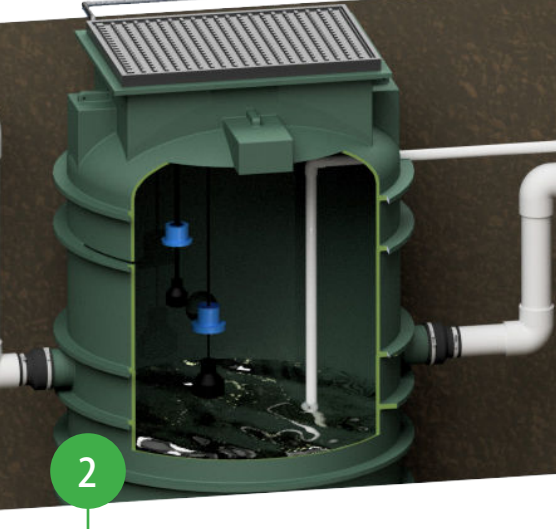


2. Holding Tank

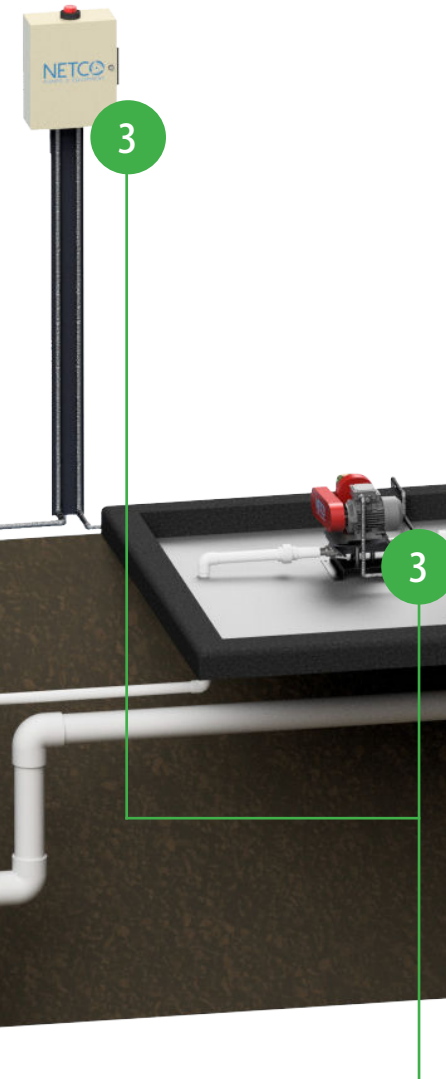
The wastewater flows from the pollutant trap to the holding tank, which enables final settling out of any fine suspended solids prior to pumping to the treatment system.



2



3



3. 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.



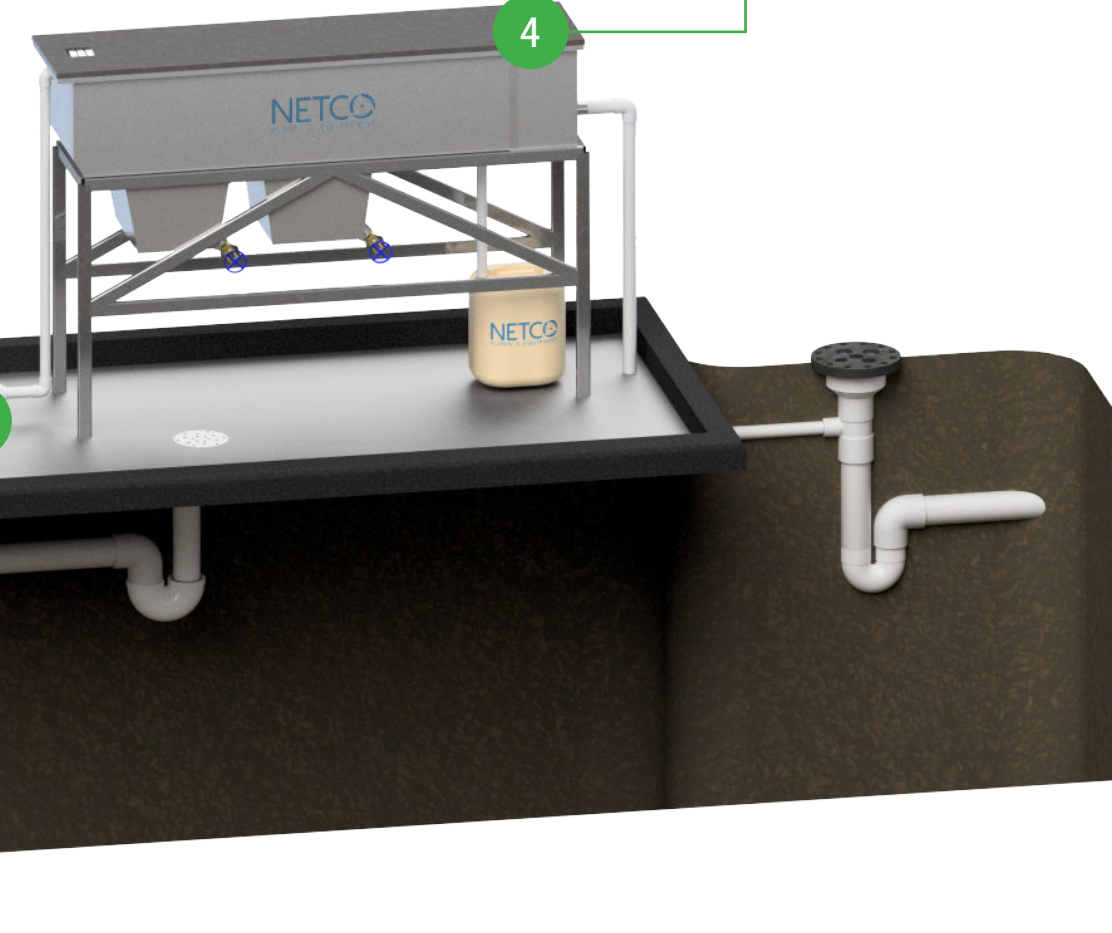
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4. Oil Water Separator

Wastewater flows through the oil water separator at a measured flow before returning to the sewer network.



4



Disclaimer: This is a typical representation only. Installations may vary respective of site conditions.

STAINLESS STEEL OIL WATER SEPARATORS

These separators are Australian-made, 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 contain 100 micron sock filters in the outlet, ensuring every drop of treated liquid is subjected to final scrutiny before being released to sewer. There are 5 standard models available.



Model	Flowrate	Dimensions (LxWxH*)
NPSS-1000	1000 L/h	1250 x 370 x 1200mm
NPSS-1500	1500 L/h	1250 x 455 x 1200mm
NPSS-3000	3000 L/h	1935 x 455 x 1200mm
NPSS-6000	6000 L/h	2330 x 660 x 1580mm
NPSS-10000	10000 L/h	2580 x 1201 x 1580mm

* Support stand height is adjustable.

POLYETHYLENE OIL WATER SEPARATORS



Netco Polyethylene Oil Water Separators utilise a coalescing plate pack and are manufactured from UV stabilised, chemical and impact resistant polyethylene, making it lighter and more cost-effective than other materials.

These separators are a very simple design and easy to clean and maintain. Four standard sizes are available.

Model	Flowrate	Dimensions (LxWxH)
NPPS-1000	1000 L/h	1410 x 420 x 1510mm
NPPS-1500	1500 L/h	1500 x 750 x 1510mm
NPPS-2000	2000 L/h	1100 x 1100 x 1450mm
NPPS-3000	3000 L/h	1100 x 1100 x 1450mm

PUMPS

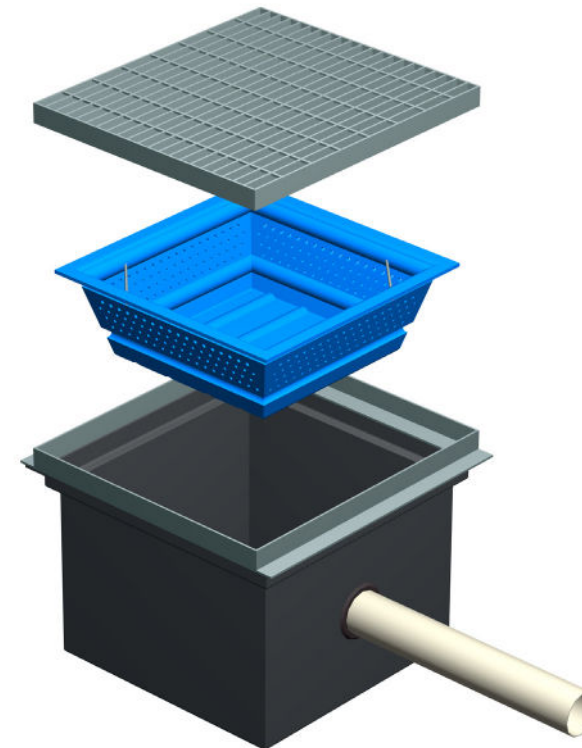
At the heart of an oil water separator system, there is always a pump. Netco utilises and recommends a diaphragm pump for these systems.

These mechanically operated, solids handling, non emulsifying and self priming pumps are very simple in operation and require very little maintenance. The gearing on these pumps can be adjusted 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 applications such as service stations.



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.

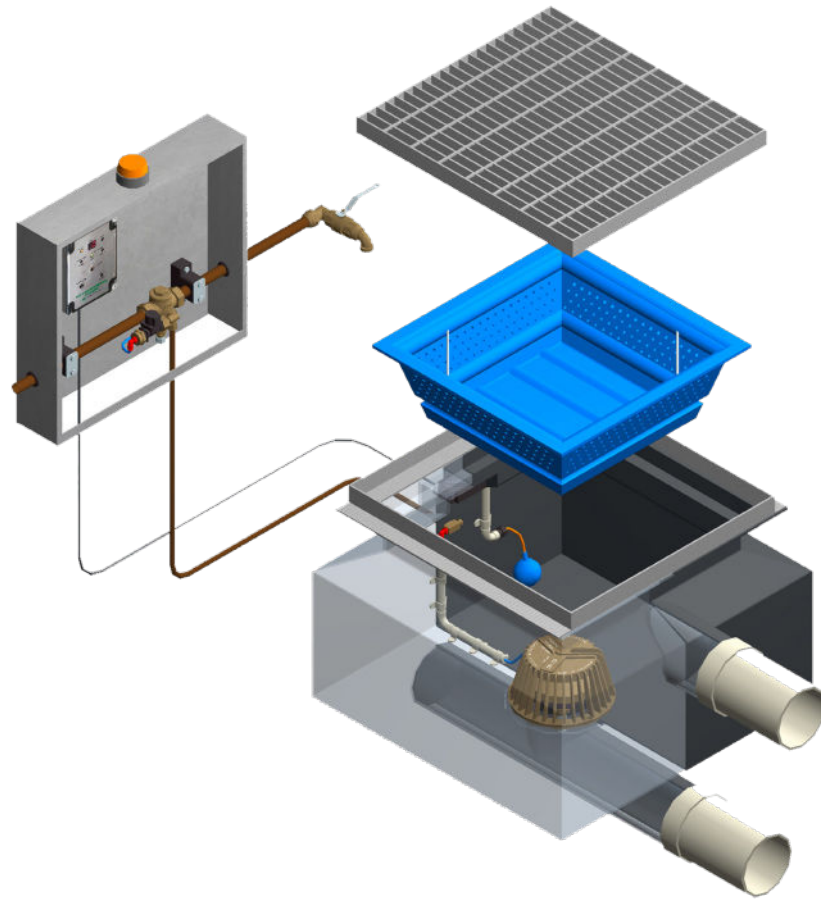
The polyethylene trash basket has significant silt handling capacity, yet is light enough to enable emptying by hand. There is also a by-pass variant available for situations where a clogged silt trap could result in flooding of buildings or adjoining properties. The Netco NPT gross pollutant trap is a complete unit including a polyethylene pit, grated access cover and polyethylene silt basket, providing a quick and easy solution for the installer.

FIRST FLUSH DIVERSION SYSTEM

The Netco NFF-600 First Flush Diversion System is designed to divert wastewater to a treatment process during a washdown operation, while providing additional protection for the environment by capturing the initial rainwater run-off from the wash bay and diverting to the treatment system.

A washdown operation is detected by a demand valve installed in the waterline, and this operates a diversion valve which ensures run-off from the washdown process is captured and diverted to treatment. At the end of wash activity, the diversion valve will close and then a 'delay-drop' function will re-open the valve after a 5 minute delay, allowing all drainage to be diverted.

At the commencement of a rain event, a float in the chamber will activate and send a signal to the PLC. This will open the diversion valve and divert the contents to treatment. This process is repeated as necessary until the predetermined 'first-flush' volume has been diverted.



DEMAND DRIVEN DIVERSION SYSTEM

The Netco NDD-600 Demand Driven Diversion System is designed to divert wastewater to a treatment process during a washdown operation.

A washdown operation is detected by a demand valve installed on the waterline, and this operates a diversion valve which ensures run-off from the wash down process is captured and diverted to treatment. When there is no washdown operation, the diversion valve closes and any water entering the system is directed to the stormwater network.

SPILL CONTROL SYSTEM

The Netco SCS-600 Spill Control System provides continuous protection for a site against hydrocarbon spills. This system is ideally suited for sites such as service stations, refuelling areas or fuel storage facilities.

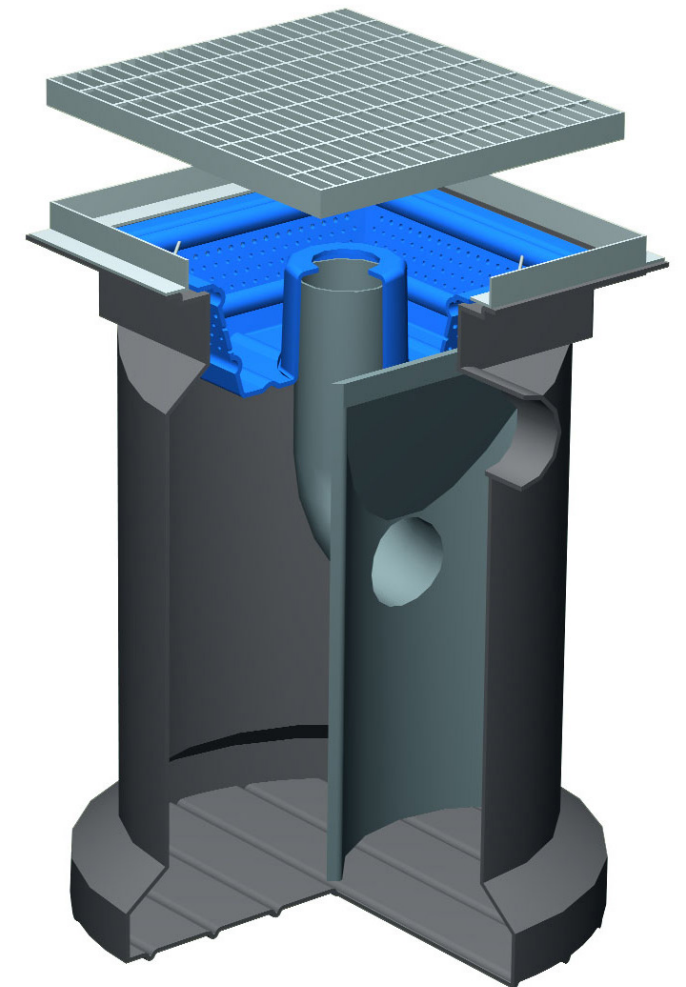
At the commencement of a rain event, the float in the chamber is activated and the first flush (site specific) of the wastewater will be diverted to treatment. Once the first flush volume has been diverted, the hydrocarbon sensor probe will be activated each time the float is triggered and the quality of the runoff is checked. If hydrocarbons are detected, an alarm is activated and the contents are diverted to treatment. This process continues until water quality is suitable to discharge to the stormwater network.

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 pollutants entering the stormwater drainage system at 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 car parks 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 to prevent a surge.





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