

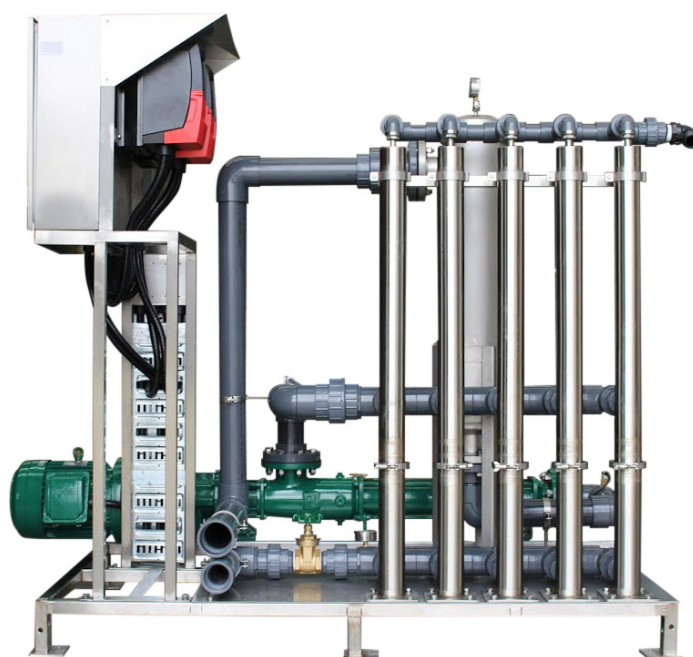
Cleanawater

Hydrocyclone Oil Water Separator DEOIL Range



Why are they used?

Cleanawater's DEOIL series oil water separator packages are installed to remove oils, grease and free hydrocarbons from waste water. They are a compact, efficient pre treatment system for industrial applications commonly used worldwide.



DEOIL10 Electric
10,000 litres per hour

Features

- ◆ Large Range from 3,000 to 500,000+ litres per hour
- ◆ Up to 90% smaller than traditional oily water separator systems
- ◆ Supplied from the factory pre plumbed, pre wired ready to plug and play
- ◆ Removes hydrocarbons to 5-10ppm to suit environmental regulations
- ◆ Superior hydrocyclone technology vs other typical oil water separator technologies
- ◆ No filter consumables required
- ◆ Low energy usage with auto operation

Benefits

- ◆ Approved by all major regulatory authorities
- ◆ Reduce installation costs – pre plumbed pre wired ready for site connection
- ◆ Avoid costly pollution fines from authorities
- ◆ Available upgrades to suit hazardous areas
- ◆ Lowest maintenance systems on the market
- ◆ Once off purchase – average working life 20+ years

DEOIL Range Oil Water Separators

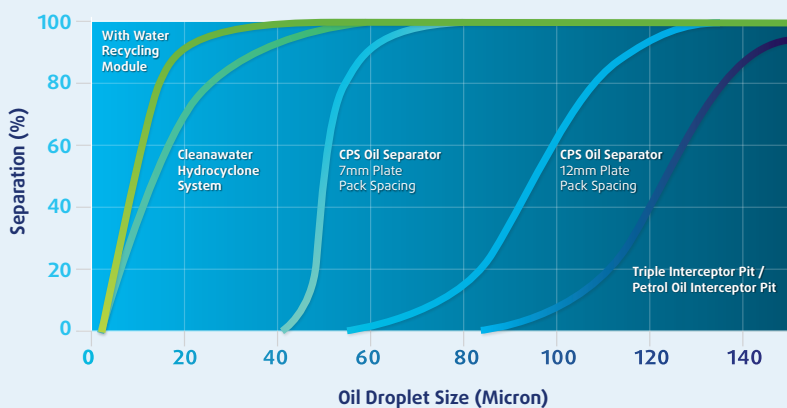
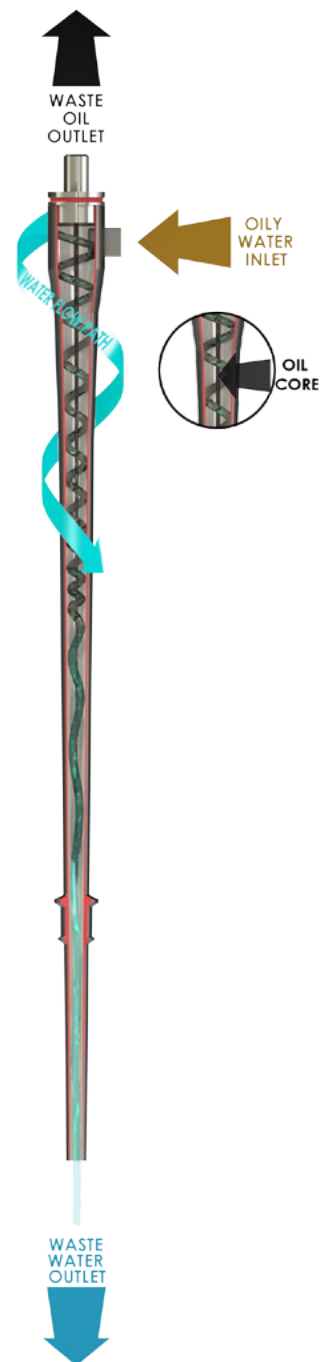
How it Works

Cleanawater Hydrocyclone oil separators operate on the process where wastewater enters the cyclone chamber and is spun under extreme centrifugal forces up to 1000 times the force of gravity.

The heavier water phase is forced outward towards the cyclone wall where the lighter oil phase migrates towards the centre core.

The separated oil is discharged from one end of the cyclone where treated water is discharged through the opposite end for further treatment, filtration or discharge.

Solids hydrocyclones are often coupled with de-oiling hydrocyclones to also remove suspended solids from waste water which allow them to be recycled water adaptable and to adhere to strict discharge specifications.



Separation Performance

Hydrocyclone systems outperform traditional alternatives such as corrugated plate separators with alternate plate spacing and triple interceptor pits.

Common Applications

- ♦ Mining Workshops
- ♦ Mining LV/HV Wash Down Bays
- ♦ Industrial Wash Down Bays
- ♦ Commercial Wash Down Bays
- ♦ Refineries
- ♦ Service Stations
- ♦ Refuelling Bays
- ♦ Industrial Workshops
- ♦ Transformer bunds
- ♦ Oil Spill Control Areas
- ♦ Contaminated Hardstand Areas
- ♦ Equipment Hire Branches



Standard Inclusions List

Item	Standard
Cleanawater Oil Water Separator	✓
Non Emulsifying Pump	✓
Debris Strainer	✓
Floating Skimmer and Flexible Suction Hose	✓
Float Switch x2	✓
Control Panel 415V to AS3000 Standards/Air Control Manifold	✓
Galvanized Skid	✓
600L Waste Oil Tank	✓
Factory Commissioned, Pre-plumbed, Pre-wired	✓

* Additional upgrades and modules available to suit specific requirements and water quality standards.

Specifications

Oil Separator Model	Cleanawater DEOIL3	Cleanawater DEOIL5	Cleanawater DEOIL10
Flow Rate			
Litres per Second	0.83	1.39	2.78
Litres per Hour	3,000	5,000	10,000
Materials of Construction			
Hydrocyclone Sleeve	316 SS	316 SS	316 SS
Hydrocyclone Liner	316 SS	316 SS	316 SS
Debris Strainer	316 SS	316 SS	316 SS
Waste Oil Decant Tank	PE / SS	PE / SS	PE / SS
Floating Oil Skimmer (In Pit)	316 SS	316 SS	316 SS
Fluid Properties			
Operating Temperature (Celsius)	0 TO 50	0 TO 50	0 TO 50
pH influent	3-12	3-12	3-12
Dimensions			
Length mm	1600mm	1600mm	2300mm
Width mm	1200mm	1200mm	1200mm
Height mm	1682mm	1682mm	1750mm
Connections			
Waste Water Inlet	DN50	DN50	DN80
Waste Water Outlet	DN25	DN25	DN65
Waste Oil Inlet	DN25	DN25	DN25
Waste Oil Outlet	DN50	DN50	DN50
Weight			
Dry Weight (Total Skid)	185kg	215kg	375kg
Operating Weight (Total Skid)	715kg	745kg	650kg (exc. Waste oil tank)
Control Method			
Pneumatic / Electric	Electric or Pneumatic	Electric or Pneumatic	Electric or Pneumatic
Power / Air Requirement	415v / 15A / 3P 7 BAR / 10 L/sec	415v / 15A / 3P 6 BAR / 8 L/sec	415v / 30A / 3P 7 BAR, 25 L/sec
System Performance			
Typical TPH Influent	< 5000-6000 ppm*	< 5000-6000 ppm*	< 5000-6000 ppm*
Typical TPH Discharge (Treated)	< 10 ppm*	< 10 ppm*	< 10 ppm*

* TPH, oil and grease results are typical and based on free hydrocarbons only, emulsified hydrocarbons may affect discharge results and additional filtration may be required.