

Clarifiers

DAF units

OWS

Filter Presses

Coalescing Media Oil Water Separation Units (CM400 OWS)

Siltbuster's new CM400 Coalescing Media Oil Water Separator is a self contained unit which separates oil from water by passing water through an oil attracting media.

Developed in-house and aimed at the construction and environmental remediation industries the separator is ideal for above ground applications and treatment capacities of between 20m³ - 40m³ per hour.

How it works

The unit works by passing oily water through an Oleophilic media, where the oils become attached to the surface of the media.



Siltbuster's CM400 Coalescing Media Oil Water Separator

the potential to become clogged with suspended solids, requiring frequent cleaning or operated in series with a silt trap upfront.

Although this removes coarse solids, clogging of the media can still occur due to the accumulation of fine solids. Consequently, the use of coalescing media separators on silt laden oily water could be problematical. The coalescing media used with the Siltbuster CM400 unit has been specifically designed to overcome this problem.

Applicable for the removal of:

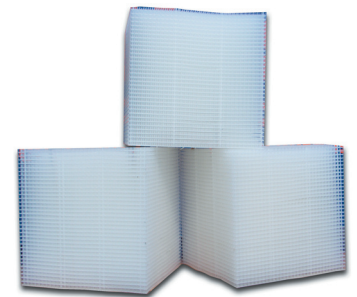
- Motor oils
- Fuels (petrol/diesel)
- Fuel oils
- Hydraulic fluids
- Immiscible Machine oils
- DNAPL
- LNAPL
- Vegetable oils
- Fats & greases
- Lube oils

Typical applications:

- Environmental remediation
- Construction and industrial sites
- Oil/hydrocarbon recovery

Individual droplets coalesce into larger ones until they are big enough for the buoyancy forces to overcome the surface adhesion, at which point they break free of the media and rise rapidly to the surface.

Traditionally this has been achieved by passing the mixture through packs of closely spaced corrugated plates or highly porous plastic media, similar in consistency to plastic scouring pads. Both have



Lantec's HD Q-PAC coalescing pack

Technical Specification	Model		
	CM400 OWS Coalescing Media Oil Water Separator		
	Length	Width	Height
Unit size	3.7m	1.2m	1.8m
Carcass material	Mild steel (EN10025 S275) shotblasted to min. SA2.5		
Surface protection	2 Pack High Solids Anti-Corrosive Epoxy Primer; Modified Acrylic External Finish; High Solids Glass Flake Epoxy Internal Finish		

Transportable

Modular

Affordable

Q-PAC Coalescing Media

The CM400 OWS unit uses Lantec's HD Q-PAC coalescing media which maximises the coalescing area and as far as practicable, minimises the risk of clogging with suspended solids and has the following important advantages over conventional corrugated media:

- An effective coalescing area of 433m²/m³ compared to 230m²/m³ for conventional inclined corrugated media pack
- Can achieve removal efficiencies of over 99.9% for oil droplets larger than 20 microns in diameter
- Proven ability to meet the requirements of both EPA Method 413.2 and European Standard EN858-1
- Excellent self cleaning and anti-plugging characteristics which extends the operating period between de-sludging when treating suspended solids contaminated oily waters
- Operating temperatures of up to 100°C



Lantec's HD Q-PAC Coalescing Media pack (with removable cartridge) inside a Siltbuster CM400 unit

Other products from the Siltbuster range include:

- Traditional tilted plate type FB50 OWS and HB50 OWS (oil water separation) units used by contractors and environmental remediation companies across the UK
- The award winning Siltbuster mobile silt traps and packaged lamella clarifiers
- Packaged lamella Dissolved Air Flotation units
- Mobile Filter Presses for sludge dewatering
- Chemical dosing pumps and systems (including Flow Proportional Control)
- Temporary water treatment plants
- All available to hire or buy



D20 DAF unit removing hydrocarbons on environmental remediation site



FB50 OWS unit treating ground water on construction site



HB50 OWS unit on an industrial creosoting plant