

WTS Water Treatment System

Application

The intended use of the Water Treatment System WTS is the recovery of collected water being contaminated with solid particulates and fuel (oil) that will need to be separated from the water before it can be discharged to surface water drains.

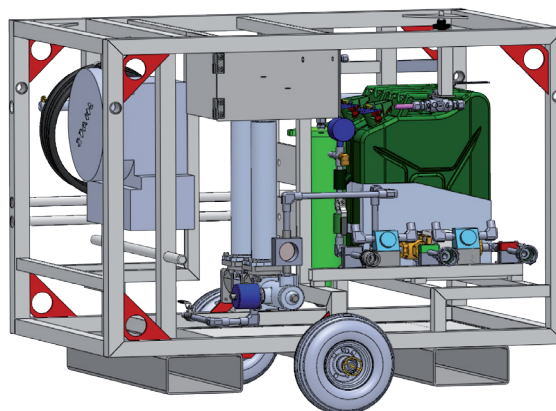
The WTS provides the capability to pump the collected water from the contaminated area into a system that separates any oil and solid particulates from the water.

WTS is been ATEX approved for operation within a zone 2 hazardous area (minimum requirement) and therefore compliant with the ATEX directive.

The WTS has been designed for simple operation and calibration. It incorporates a calibrated oil/alarm/monitor that controls the separation process. This monitors the oil ppm content in the treated water and only permit discharge if the oil ppm content is below the alarm level. If the oil content in the treated water is greater than Alarm level then the discharge will be stopped and the treated water returned to the contaminated area retained for further treatment.

The control system provides the user with clear information on the quality of the water being discharged from the system. This information is been displayed in terms of ppm of oil in the water. If the discharged water is introduced into the seas, strict directives require special attention. Depending on area, different oil content limits must be complied with.

If PW or bilge water is to be introduced into the seas, the residual oil content must not exceed a concentration of 15 to 40 ppm on average, depending on area. Other inland applications require much harder limits (e.g. 5 ppm).



WTS is been designed to achieve residual hydrocarbon levels of less than 5 ppm.

Technical Data

- Zone 1 ATEX approval
- Semi automated
- Hydraulic driven
- Three stage filtration (pre-filter, two stage coalescers)
- Two 20 l waste containers
- Scattering light sensor
- Automatic filter head drainage
- Manual flow valve
- Automatic valves for drainage
- Automatic valve for treated water
- Mobile (handles, wheels and fork lifting pockets)
- Manual differential pressure
- Manual level control

Available Systems

Type	Performance (m ³ /h)	Target (ppm)	Max oil content (%)	Size (without pump) L x W x H (mm)	Weight (kg)
WTS-500	0.5 m ³ /h	5 ppm	3%	1,200 x 800 x 900	145
WTS-1000	1.0 m ³ /h	5 ppm	3%	1,200 x 800 x 900	148
WTS 2000	2.0 m ³ /h	5 ppm	1.5 %	1,200 x 800 x 1.300	160
WTS-4000	4.0 m ³ /h	5 ppm	1.5 %	1,200 x 800 x 1.300	180

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