Carbis Vehicle Wash Water Treatment System OW2
Data Sheet 1

Carbis Vehicle Wash Water Treatment Systems have been specifically designed for the treatment of waste water from washing and valeting operations of vehicles. Carbis water treatment systems are designed to remove suspended and dissolved particles, including hydrocarbons and surfactants to enable waste water to be reused for vehicle washing or to meet the necessary local discharge consents.

Operation of the OW2:

The Carbis OW2 is a stainless steel bodied skid measuring 1800L x 750W x 1200H. Collected waste water is pumped from the settlement tank / silt trap using a self priming pump with use of a float switch, all integral to the Carbis OW2 unit. The wastewater is then pumped into a two-stage filtration system to remove any remaining suspended solids. The first stage filter rated at 50 micron nominal, uses centrifugal technology to remove all particles >50 microns. The second stage filter is rated at 20 micron nominal and is of similar construction. The treated water continues to the third stage of treatment, which is a mini GAC aquasorber, which removes the hydrocarbons and surfactants.

The water once treated continues to be pumped into a holding tank for re-use or discharged to soak away. Waste water treated by Carbis in this way has been accepted by Thames Water Authority as suitable for disposal into a storm water drain.

Technical information:

- Max flow = 2000 ltrs / hr.
- Power source = 240V.
- Inlet connection = 1” BSPF.
- Outlet connection = 1” BSBM.
- Removal rate of solids >20 microns = 100%.
- Removal rate of organics and hydrocarbon = 100%.
- Pump type = single stage jet pump.
- 1st stage filter = 1 x Centrifugal filter housing c/w 50 micron nylon mesh centrifuge screen.
  Solids are removed via a valve at the base of the filter housing for disposal into a bucket or suitable container. Periodic cleaning of the filter element is required and replacement is required approximately every 6 months.
- 2nd stage filter = 1 x Centrifugal filter housing c/w 20 micron nylon mesh centrifuge screen.
  Same applies to above with regard solids removal etc.
- 3rd stage filter = 2 x mini aquasorbers c/w AW GAC.
  100% of all dissolved contaminates are removed at this stage (organics, hydrocarbons and surfactants) Life expectancy varies on loadings but as an average life expectancy is around 8-12 months.

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