



Vortex Oil Absorption Tool

Oil absorption - separate hydrocarbon from water

The vortex marine guardian system has been built specifically for the purpose of absorbing hydrocarbon based contaminants from dilution in water.

The funnel is placed above the area of contamination so as to draw away contaminated water and pump it through the filter system. There is no known limitation to how much water can be pumped through the filter system.

The marine guardian filter system has been seen to absorb 15 litres of EP80 oil at 50% filter saturation. These absorption rates may change depending on type and quantities of contaminants seen.

The water pump output pressure is restricted to prevent over pressurisation of filter units.

Applications

Hot stab operations

Any hydrocarbon loss operations

Features

Self contained pump

Holds up to 20 litres / 5.2gal of oil

Additional filters can be added to increase containment capacity

In the box

Vortex marine guardian

Funnel

10 oleophilic and hydrophobic filters

Pump spares kit

Operational hoses

Operations and maintenance manual



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Specifications



Hydraulic pressure	103bar / 1500psi
Hydraulic flow	20lpm / 5.2gpm
Pump performance	Approximately 230lpm / 60.7gpm pumped from funnel through filters
Filters	Each filter tested to absorb 1.5 litres / 0.39gal of EP80 oil at 50% filter saturation
	Each filter gives approx 7kg / 15.4lbs of buoyancy in water before flooding from dry
	Each filter gives approx 0.5kg / 1.1lbs of buoyancy in water when flooded with water
Pump weight in water	43kg / 94.7lbs
Filter frame weight	57kg / 125.6lbs
Dimensions	470 x 750 x 1150mm / 18.5 x 29.5 x 45.2in

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