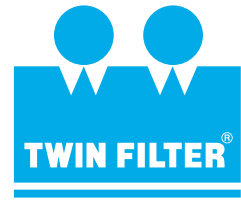


# VORAXIAL SEPARATOR



## VORAXIAL

Twin Filter introduces the Voraxial separator. The Voraxial is a 3 phase centrifugal separator which finds its use in many industrial applications for separation of liquids with the simultaneous removal of solids. The separator creates high G-forces for effective separation of the different phases. Its simplicity, small size and low power consumptions makes it one of the most economic separators in the market today. No other centrifugal separator in the market today is able to achieve superior separation at such high flow rates, with little floor space and energy efficient than the Voraxial.



Model	Flowrate BWPD (m <sup>3</sup> /hr)	Energy Hp (kW)	Footprint (m <sup>2</sup> )	G-force	Size (Inch)
VORAXIAL2000	2000 (13)	3 (2,2)	1,0 x 2,5 m	350	2"
VORAXIAL4000	15,000 (100)	20 (15)	1,2 x 4,5 m	700	4"
VORAXIAL8000	60,000 (400)	50 (37)	1,8 x 8,0 m	1400	8"



*We care, we filter*

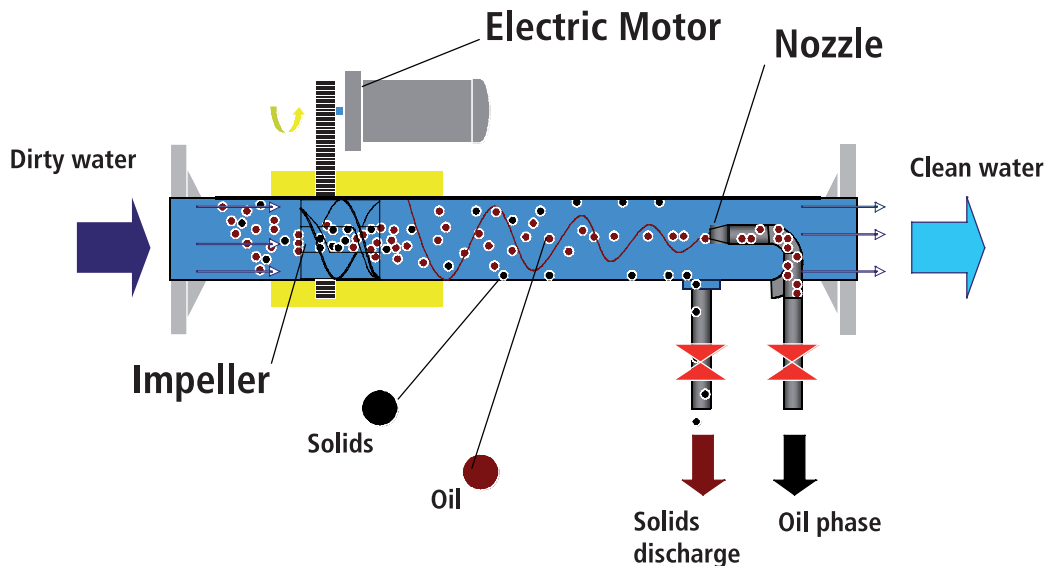
# VORAXIAL SEPARATOR

## WORKING PRINCIPAL

A special designed impeller spins the incoming liquid creating a strong Vortex. Due to centrifugal forces, the lighter liquid is drawn to the centre of the Vortex while the heavier liquid is spun outward; the solids are forced to the wall of the separator and are collected at the end of the separation chamber and discharged.

The lighter liquid (oil) is collected by the orifice in the centre, at the end of the separation chamber, and discharged through the light liquid drain.. The heavier liquid (water) goes straight through the separator to the clean outlet.

The unique hydrodynamic design of the open impeller ensures low shear of oil droplets and non clogging of the impeller.



## BENEFITS

- Efficient separation of oil / particles / water
- Very high flow rates using small floor space
- De-oiling and de-sanding in one unit
- Acts as an axial flow pump
- Fluctuations in flow or concentration will not effect efficiency
- Simple and reliable, one moving part
- Low energy consumption
- Low shear and virtually non-clogging.
- Small Footprint and Weight (1/4 – 1/5 of other technologies).
- Solids do not effect oil separation

## APPLICATIONS

Produced water treatment  
Mud pit cleaning  
Slop water clean up  
Waste water treatment  
Completion fluids  
Pipeline/system purge  
clean up Hydro test  
discharges  
Ballast and bilge water  
clean up  
Run off water  
Oil spills

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