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**A2E Environmental Solutions Ltd**

亞歐環保電機有限公司

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Paper Band Clarifier	Coolant Centrifuge
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Rotary Drum Filter	HydroCyclone Filter
Oil / Water Separators	Vacuum Filter
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**A2E Environmental Solutions Ltd**

Quality Imported Products, by  
Our man in China & Your man in the UK



## **HydroCyclone Filter**

*Model: FHC -*



*Continuous operation ~ Media free  
Easy to install and maintain  
Ferrous and non-ferrous materials  
Low investment & running cost*

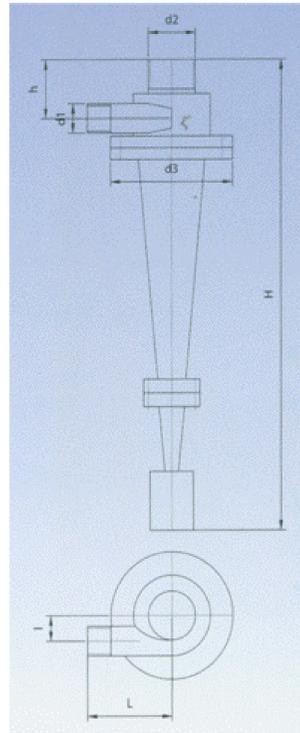
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# HydroCyclone Filter

Model: FHC -

## Design

The HydroCyclone Filter consists of no moving parts, other than the feeding pump and ancillaries such as a drag conveyor. This filter is fully automatic and media free. A system will include a drag out conveyor, feed pump, cyclone filter, clean tank and pump plus control system.



Model	Flow rate (lpm)	Inlet height (mm)	Outlet height (mm)	Dia (mm)	Length (mm)	Inlet	Outlet	Tank size (ltr)
A2E - HC 25	25	230	256	80	256	G 1/2"	G 1/2"	90
A2E - HC 50	50	280	320	90	320	G 1/2"	G 3/4"	250
A2E - HC100	100	420	480	130	420	G1"	G 1 1/2"	470
A2E - HC500	500	933	1065	205	933	DN46	DN50	3000

## Function

The dirty liquid is pumped to the hydrocyclone filters. These Hydrocyclone are basically a centrifuge with no moving parts. Dirty liquid enters the cyclone at a tangent (at 2-3 Bar) which creates a vortex effect within the cyclone chamber. The reducing diameter forces an increase in rotational speed. High 'G' forces cause solid particles to move down the walls of the cone and they fall from the nozzle with a trickle of liquid (the 'underflow') back into the dredge tank to be removed by a drag out.

The clarified liquid is drawn up the middle of the cone by the low pressure at the centre of the vortex and turns back to exit from the top of the cone back into the clean tank.

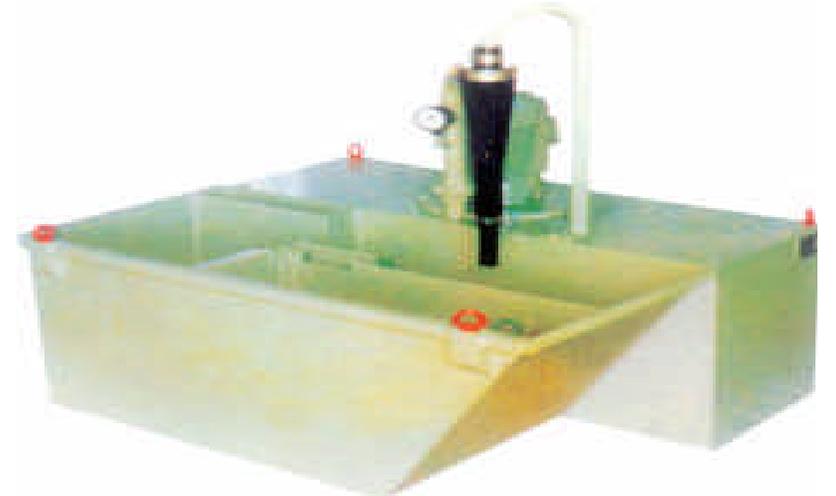
The HydroCyclone Filter continuously removes solid particles from water based liquids under centrifugal force. The Cyclone offers a high efficiency clarification, in some cases down to 15 micron.

This flow may be piped directly back to the machine tool, or alternatively the flow enters a central clean tank where a chiller and auto top-up can be added to the system as further treatments.

Options: Add a Magnetic drum filter and or a Drag conveyor prior to the Hydrocyclones which will reduce the filtration level within a complete system. Chiller unit. Auto-Topup system. Dirty Scavenge Pumping Station.

## Applications

Suitable for Centreless Grinding and High stock removal Grinding on coolant lubrication, emulsions.



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