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A2E Environmental Solutions Ltd
亞歐環保電機有限公司

A2E Environmental Solutions Ltd.

We are happy to discuss a solution
for your Industrial application

Filtration:

| | |
|------------------------|---------------------|
| Paper Band Clarifier | Coolant Centrifuge |
| Magnetic Drum Filter | Hydrostatic Filter |
| Rotary Drum Filter | HydroCyclone Filter |
| Oil / Water Separators | Vacuum Filter |
| Filter Media | |

Swarf Processing & Handling:

| | |
|---------------|---|
| Steel Belting | Steel Belt Conveyors |
| Swarf Wringer | Swarf Shredder Swarf Briquetting Press |

Vehicles:

| | | | |
|------|-----|---------|-----------|
| Quad | ATV | Go-Kart | DuneBuggy |
|------|-----|---------|-----------|

Energy Savers:

| | | |
|-----------|---------------|---------------------|
| LED Bulbs | Wind Turbines | Solar Water Heating |
|-----------|---------------|---------------------|

Consultancy Services:

| | | |
|---|---------|------------------|
| Imports | Exports | Shipping/Freight |
| Engineering Services by Our man in China & with Your man in the UK | | |

Web: www.a2e-es.com

Tel: 07818 086650

A2E Environmental Solutions Ltd reserves the right to change specifications, equipment, materials, colour or any other item without notice. Please confirm full specification prior to purchase. Safety note: These machines could be hazardous if operated by unskilled workers: Always read, act & obey to the owners/maintenance manual. Always wear safety gear as necessary, ie. Helmet, boots, gloves etc when operating these machines.



A2E Environmental Solutions Ltd

Qual ity I mported 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*

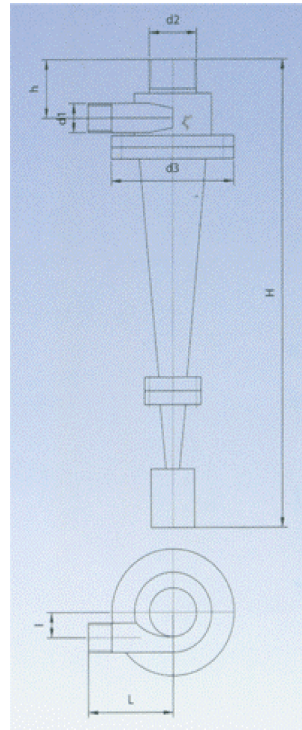
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HydroCyclone Filter

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.

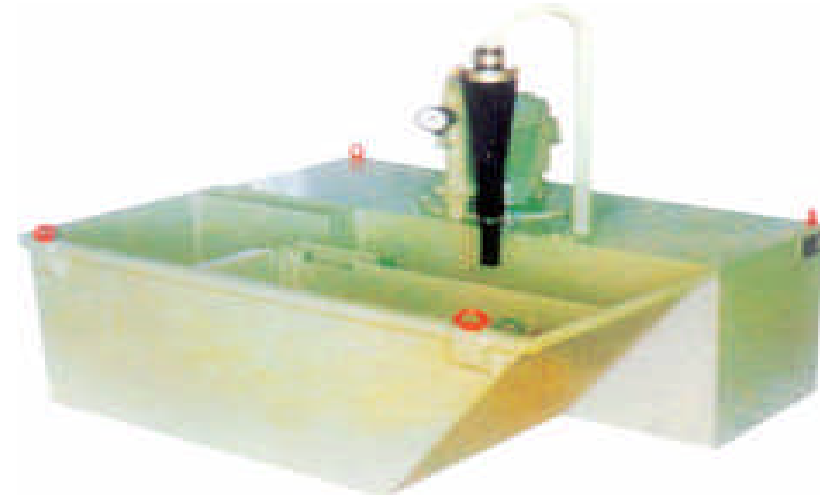
The HydroCyclone Filter continuously removes solid particles from water based liquids under centrifugal force. The Cyclone offers a high efficiency clarification, in some cases down to 15 micron.

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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