

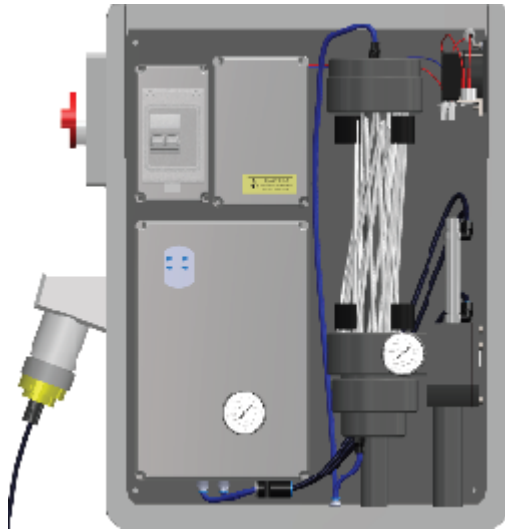


Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

## Vortex Ultra Filter

Low maintenance sample preparation for on-line analysers



Hollow Fibre Filaments  
- kept clean with  
alternate flow &  
scouring action

Flexible Install  
Options  
for ease of  
deployment



### Features:

- Advanced Ultra filtration membrane technology
- Vortex flow cycle adjustable to effluent solids content
- Options for 24v dc compressor and supply
- Flow rates up to 120 ml/min - can supply multiple analysers
- Flexible install options within different size weatherproof housings



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**System Physical Specification**

Operation Principle	Alternating vortex, cross flow, hollow fibre filament ultra filter
Filtrate Output	Output up to 120 ml/min
Filtration	To below 0.05 micron
Membrane pressure	0.1 to 0.6 bar
Temp range	5 to 35 °C
pH range	3 to 11
Timing	Vortex flow cycle adjustable to effluent solids content
Maintenance	Transparent body for easy cartridge inspection
Air Compressor	Supplied to activate vortex flow cycle 24 VDC or 100/230 VAC options - auto draining low maintenance
Options	Membrane auto-backwashing using caustic wash in extreme fouling

**System Physical Specification**

Construction	Dimensions (h x w x d)	327 x 270 x 297 mm
	Weight	5 kg
	Materials	PVC, backpanel mounted
	Environmental	-5 to +45°C
Flow Input	Submersible pump	7 m3/hr
Pipework	1" PVC supply couplings	Standard socket connections
Air supply	Pressure regulator	Max 6 bar air supply
	Data storage	SD card
Power requirements	Supply Voltage	24v dc / 115 or 230v AC (option) at 50/60 Hz
	Load	10w max
	Immunity to V change	En 50022

**Cartridge Assembly Specification**

Construction	Dimensions (h x w x d)	320 x 60 mm
	Weight	0.5 kg
	Materials	PVDF with hollow filaments
Maintenance & Operational Life	Typical applications Effluent Inlet/ Outlet	2-3 year operation life depending on application
	Process Conditions	All sewage liquors / Industrial effluents / RAS / River water / Portable water supply

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