



Pyrolox™ is a granular water filtration medium used for the removal of hydrogen sulphide, iron and manganese. Through a natural chemical reaction, Pyrolox™ has the ability to help you produce clean, high-quality water. Pyrolox works because of a catalyst reaction whereby hydrogen sulphide, iron, and manganese are oxidized on the media. Daily backwashing then flushes trapped particulate from the filter bed.

Pyrolox™ is a natural mineral form of manganese dioxide, making it an environmentally sound means of water filtration.

This robust product has proven highly successful in both point-of-entry and point-of use applications. Although each treatment application is unique, there are certain general guidelines that need to be followed in order to realise the full benefits of Pyrolox as a permanent medium.

Physical Properties	Bulk density	1.92kg/l	Operating Conditions	pH	6.5 – 9
	Specific gravity	3.8		Max organic iron	0.5mg/l
	Mesh size	18/44		Freeboard	40% of bed depth
	Packaging	27kg(14litre)bags		Service flowrate	200l/min/m ²
				Backwash flowrate	1000l/min/m ²
Backwashing	As with any media, frequent and thorough back-washing is essential for long-term success with Pyrolox™. The specific frequency of regular back-washing is dependent on water quality and application rate. A daily backwash at the appropriate rate is required to remove precipitated contaminants from the filter bed.				
Oxidant Feed	To maintain and further augment the long-term performance and removal capacity of the media, an oxidant feed of some type is strongly recommended. This will maintain the media and enhance removal capacity. Chlorine injection (options include chlorine, sodium hypochlorite, or calcium hypochlorite) immediately up stream of the filter feed is a simple way to meet this requirement. Other acceptable oxidants include air injection (oxygen is an oxidant), potassium permanganate, sodium permanganate, etc. Hydrogen peroxide is specifically prohibited for use as an oxidant.				

Pyrolox Filters for Manganese & Iron Reduction

→ Operating pressure

Minimum - 3 bar

Maximum – 8 bar

- Uses pyrolox medium with pH adjustment medium added if required. If pH adjustment is used the throughput of the unit is reduced.
- Incorporates routine re-oxidation of the bed with potassium permanganate.
- Fitted with Siata valve with pistons using water pressure to switch between backwash, regeneration and service modes.
- Controlled by separate panel using microprocessor for added flexibility.
- Includes inlet and outlet solenoid valves-

Inlet -to allow the pressure to build up during backwash to provide surges of high flow, (The backwash flowrate should be twice the service flowrate for optimum operation.

Outlet – to stop service flow during backwash and regeneration.

- Normally set to backwash every night but can be adjusted.
- Normally set to regenerate with potassium permanganate twice per week but can be adjusted.
- Consumable materials:

Pyrolox should not need to be changed frequently as it is routinely re-oxygenated. Expected bed life over 5 years.

pH adjustment medium will need to be added routinely if the pH is low. Expected intervals 6 – 12 months.

Potassium permanganate feeder will need to be replenished routinely.

Size	Flowrate (standard)		Flowrate (pH adjusted)		PRICE
	m³/hr	litres/min	m³/hr	litres/min	
1054	0.9	15	0.75	12.5	£1,564.00
1354	1.8	30	1.5	25	£1,830.00
1465	2.3	38.33	1.92	32	£1,994.00
1665	3.6	60	3.0	50	£2,276.00
1865	4.5	75	3.75	62.5	£2,620.00

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