

DMI-65 Iron Removal Filter

Iron/Manganese/Arsenic Removal

ROTEK Auto-control Filter with DMI-65 as filtration media, excels in design and utilizes high-quality components for exceptional performance. Engineered for longevity and energy efficiency.

The DMI-65 is one of the fewer catalytic water filtration media's in the world developed to remove iron and manganese that is certified to NSF/ANSI 61 for drinking water applications.

Colorless, dissolved iron in water reacts with air to create reddish-brown rust particles, while manganese forms brownish-black particles. These impurities can cause a metallic taste and stubborn stains on plumbing fixtures, fabrics, dishes, and utensils. Over time, iron deposits accumulate in tanks, heaters, and pipelines, reducing water quantity and pressure.

The DMI-65 is a certified NSF/ANSI 61 catalytic water filtration media that can remove iron and manganese from drinking water. DMI-65 is highly effective in simultaneously removing iron and manganese, It can also remove arsenic under suitable conditions.

Advantages

■ Permanganate Continuous

Injection of sodium hypochlorite to low (0.2ppm) residual acts as an activator for the media and provides a residual sanitizer effect.

■ Wide pH range

Stable and satisfactory performance at pH 5.8 to 8.6.

■ High Flow Rates

DMI-65 operates satisfactorily at linear filtration velocities of up to twice that of conventional media, reducing capital costs considerably.

■ Higher Operating Temperatures

Maximum operating temperature of 45°C.

■ Long Life

DMI-65 is not consumed in the catalytic oxidation process.

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■ System Compatibility

Physical properties are similar to that of other comparable systems, allowing a change of media without major hardware modifications.

■ Arsenic Removal

DMI-65 has been shown to remove arsenic associated with iron-containing influent. Ferric chloride is used when treating feedwaters with high arsenic feed levels.

Specifications

Model	Media Volume	Flow Rate	Control Valve	In/Outlet	Tank Dimension
IRF-1054	50L	1000LPH	F67P1	1"	10" x 54"
IRF-1354	70L	2000LPH	F67P1	1"	13" x 54"
IRF-1465	100L	3000LPH	F67P1	1"	14" x 65"
IRF-1665	120L	4000LPH	F67P1	1"	16" x 65"
IRF-1865	150L	5000LPH	F134A1	1.5"	18" x 65"
IRF-2162	200L	6000LPH	F134A1	1.5"	21" x 62"
IRF-2472	300L	8000LPH	F134A1	1.5"	24" x 72"
IRF-3672	600L	15,000LPH	F75B1	2"	36" x 72"
IRF-4872	1000L	25,000LPH	F112B1	2.5"	48" x 72"

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DMI-65 Media
0.6 - 0.7mm



Small Gravel
3 - 8mm

Product Material:

Control Valve: Auto-control / Manual

Tank: Glass-fiber reinforced polyethylene

Treating material: DMI-65 + Small Gravels

Working Conditions:

Max working pressure 6 BAR

Min working pressure 2 BAR

Max working temperature 50°C

DMI-65 Media

The world's most advanced oxidation catalyst porous filter material, High ability to remove iron (Fe), manganese (Mn), and arsenic (As).

- **Low operating costs & Long-lasting** - No additional chemicals are required other than periodic backwashing and the addition of sodium hypochlorite. Under normal use and regular backwashing, the life of the filter material can be used for 3-5 years.
- **Strong efficiency in removing iron and manganese** - It can reduce the iron concentration of 10mg/L in raw water to 0.01mg/L. It can also remove arsenic under suitable conditions.
- **Small footprint** - Abandoning traditional coagulation, sedimentation, and equipment with a large footprint, only a very small area is required.
- **Large filtering flow** - Twice the flow rate compared to ordinary filter media (L.V 10-30m/H)