



# IRON MANGANESE REMOVAL SYSTEMS

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## **IRON MANGANESE REMOVAL SYSTEMS**

*Filter media used in Iron-Manganese removal filters is an economical Filter media, which is used for the removal of the dissolved iron manganese compounds. In underground waters, dissolved iron is generally found in the form of iron bicarbonate. Iron manganese removal mineral, which acts as a catalyzer between iron compounds and oxygen, oxidizes dissolved form of  $Fe^{2+}$  to settleable form of  $Fe^{3+}$  (iron hydroxide). Iron manganese removal mineral is also an ideal filtration material whose accumulated sediments in the media are cleaned during backwash.*



1. Upper Manhole Cover
2. Filter Inlet
3. Fe-Mn Mineral
4. Fine Sand Layer
5. Coarse Sand Layer
6. Filter Outlet
7. Gravel Layer
8. Nozzle Distribution Structure
9. Side Manhole Covers

# IRON MANGANESE REMOVAL SYSTEMS

## FRP Tank Fe-Mn Filters



### TECHNICAL SPECIFICATIONS

Tank Dimensions: 8"x35" ... 63"x86"

Tank Material: FRP

Filtration Rate: < 10 m/h

Filtration Sensitivity: < 50  $\mu$

Inner Distribution Structure: Diffuser Distribution Structure

Piping: PVC

Control\*: Automatic Control Valve / Pneumatic / Electric Act. Valve

Operating Pressure: 2-6 bar

(\* Can be applied with surface piping after 30 "x72" models)

## Carbon Steel Tank Fe-Mn Filters



### TECHNICAL SPECIFICATIONS

Diameter:  $\varnothing$ 1000 mm ...  $\varnothing$ 3200 mm

Cylindrical Height: 1800 mm

Type: Vertical / Horizontal

Tank Material: Epoxy Coated Carbon Steel

Filtration Rate: < 10 m/h

Filtration Sensitivity: < 50  $\mu$

Inner Distribution Structure: Nozzle

Piping: PVC / Galvanized

Control: Pneumatic / Electric Act. Valve

Operating Pressure: 2-6 Bar

# IRON MANGANESE REMOVAL SYSTEMS

## Stainless Steel Tank Fe-Mn Filters

### TECHNICAL SPECIFICATIONS

<i>Diameter:</i>	<i>Ø1000 mm ... Ø3200 mm</i>
<i>Cylindrical Height:</i>	<i>1800 mm</i>
<i>Type:</i>	<i>Vertical / Horizontal</i>
<i>Tank Material:</i>	<i>304 / 316 Stainless Steel</i>
<i>Filtration Rate:</i>	<i>&lt; 10 m/h</i>
<i>Filtration Sensitivity:</i>	<i>&lt; 50 µ</i>
<i>Filtration Sensitivity:</i>	<i>Nozzle</i>
<i>Piping:</i>	<i>304 / 316 Stainless Steel</i>
<i>Control:</i>	<i>Pneumatic / Electric Act. Valve</i>
<i>Operating Pressure:</i>	<i>2-6 Bar</i>





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