

INDION[®] New Generation Iron Removal Filter (NGIRF)

Indion New Generation Iron Removal Filter (NGIRF) removes dissolved iron present in feed water. Iron is present in groundwater as ferrous bicarbonate. Such water is clear when drawn but turns turbid on contact with air. The filter is provided with iron removal media which removes iron by catalytic oxidation. For feedwater containing excessive iron (> 10 ppm), pre-treatment in an aeration tank fitted with spray nozzles is recommended.

We offer a wide range of units to treat flow rates up to 30 m³/h. Treated water contains less than 0.3 ppm of iron as Fe.

Features

- No chemicals are required for the oxidation of iron. Iron adsorbed on the media is easily removed by backwashing the unit which is carried out by reversal of flow.
- Units are freestanding; pre-assembled and tested before shipment.
- The pressure vessel is of Fibre Reinforced Plastic (FRP) and the pipes are of Poly Vinyl Chloride (PVC). The entire equipment is corrosion resistant.
- The filter is fitted with a loop type ball valve / plastic ball valve operated by a hand lever for ease of operation.

Applications

- For all applications that require removal of dissolved iron up to 10 ppm as Fe and low flow rates
- Drinking water for residential colonies and commercial complexes
- Pre-treatment for industrial water treatment plants
- Food processing, beverages and mineral water production



Specifications

- One FRP pressure vessel fitted with plastic internal fittings
- One set of plastic frontal piping, linking loop type ball valve / plastic ball valve to FRP vessel
- One complete charge of iron removal filter media
- One loop type ball valve
- Two pressure gauges one each at inlet and outlet
- One rate of flow indicator (optional)

Technical Specifications

| Model | NGIRF 1 | NGIRF 2 | NGIRF 5 | NGIRF 7 | NGIRF 10 | NGIRF 12 | NGIRF 15 | NGIRF 17 | NGIRF 20 | NGIRF 30 |
|---------------------------------------------------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Flow rates (m ³ /h) Maximum | 1.0 | 2.0 | 5.0 | 7.0 | 10.0 | 12.0 | 15.0 | 17.0 | 20.0 | 30.0 |
| Working Pressure (kg/cm ²) Minimum | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Maximum | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Inlet (mm) | 32 | 32 | 32 | 32 | 50 | 50 | 50 | 50 | 50 | 90 |
| Outlet (mm) | 32 | 32 | 32 | 32 | 50 | 50 | 50 | 50 | 50 | 90 |
| Drain (mm) | 32 | 32 | 32 | 32 | 50 | 50 | 50 | 50 | 50 | 90 |
| Vessel Dia (mm) | 335 | 400 | 610 | 770 | 927 | 1074 | 1074 | 1074 | 1074 | 1226 |
| Vessel Height (mm) | 1388 | 1671 | 2163 | 2336 | 2281 | 2292 | 2292 | 2292 | 2292 | 2470 |

Note: • Feed water supply quality - total suspended solids 5 ppm max & iron 10 ppm max.

- Iron Removal Filter requires to be backwashed with iron free water whenever the pressure drops across the unit, exceeds the set limit.
- Iron removal media may require replacement, whenever its capacity for removal of iron is lost.
- NGIRF is fitted with a loop type ball valve.
- Currently all the NGIRF units are manually operated.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.

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