ION EXCHANGE
Refreshing the Planet

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 ground water as ferrous bi-carbonate. Such water is clear when drawn & turn turbid on contact with air. The filter is provided with a granular iron removal media which removes iron by catalytic action.Feed water containing excessive iron, pretreatment in an aeration tank fitted with spray nozzles is recommended.
We offer a wide range of units to treat flow rates up to 30 m^3/h. Treated water contains less than 0.3 ppm of iron as Fe.

Features

- No chemical is required for 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 free standing; pre-assembled and tested before shipment
- The pressure vessel is of fibre reinforced plastic (FRP) and pipes are of poly vinyl chloride (PVC). The entire equipment is corrosion resistant
- The filter is fitted with a multi-port plastic valve operated by a hand lever for ease of operation

Applications

- All applications requiring removal of dissolved iron up to 10 mg/l as Fe and in low flow rates
- Drinking water for residential colonies and commercial complexes
- Pretreatment 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 multi-port valve/plastic ball valves to FRP vessel
- One complete charge of iron removal filter media
- One multi-port valve with hand operated lever
- Two pressure gauges one each at inlet and outlet
- One rate of flow indicator (optional)

Technical Specification

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: Iron Removal Filter requires to be backwashed with iron free water whenever the pressure drops across the unit or exceeds the set limit.

Iron removal media may require replacement whenever its capacity for removal of iron is lost.

Manually operated NGIRF is fitted with a multi port valve.

Automation is carried out using programmable logic controller (PLC) that energies a set of solenoid valves which in turn operates the butterfly control valves located on the unit.

ION EXCHANGE (INDIA) LTD.

Corporate Office

Ion House, Dr. E. Moses Road,
Mahalaxmi, Mumbai 400 011
Tel: +91 22 3989 0909 | Fax: +91 22 2493 8737
E-mail: ieil@ionexchange.co.in

International Division

R -14, T.T.C MIDC, Thane - Belapur Road,
Rabale, Navi Mumbai 400 701
Tel: +91 22 3989 0909 / 3913 2400 | Fax: +91 22 2769 7918
E-mail: export.sales@ionexchange.co.in

OFFICES

Regional	Telephone	Fax	E-mail
Chennai	+91 44 3989 0909 / 3910 2900	+91 44 2815 3361	checro@ionexchange.co.in
Delhi	+91 11 3989 0909 / 3054 3200	+91 11 2577 4837	delcro@ionexchange.co.in
Kolkata	+91 33 3989 0909 / 3043 3400	+91 33 2400 4345	calcro@ionexchange.co.in
Vashi	+91 22 3989 0909 / 3913 2300	+91 22 2788 9839	mumcro@ionexchange.co.in
Branch			
Bengaluru	+91 80 2204 2888	+91 80 2853 2002	bngcro@ionexchange.co.in
Bhubaneswar	+91 674 326 9525 / 257 1491		bbsr@ionexchange.co.in
Chandigarh	+91 172 274 5011	+91 172 274 4594	delcro@ionexchange.co.in
Hyderabad	+91 40 3066 3101 / 02 / 03	+91 40 3066 3104	hydcro@ionexchange.co.in
Lucknow	+91 522 2235 422	+91 11 2577 4837	lko.general@ionexchange.co.in
Vadodara	+91 265 302 7489 / 90	+91 265 235 2932	brdcro@ionexchange.co.in
Visakhapatnam	+91 891 324 6253	+91 891 257 2007	sales.vizag@ionexchange.co.in

Factories: Ankleshwar | Hosur | Patancheru | Rabale | Verna

All India Service and Dealer Network

www.ionindia.com

F008R42-0118