

INDION® Multigrade Filters

Better filtrate quality at higher flow rates and lower cost

The INDION Multigrade Filter is a depth filter that makes use of coarse and fine media mixed together in a fixed proportion. This arrangement produces a filter bed with adequate pore dimensions for retaining both large and small suspended particles. This filter performs at a substantially higher specific flow rate than conventional filters. Specific flow rates of 15 - 30 m/h have been successfully obtained for treating waters containing 50 - 25 ppm suspended solids respectively to produce a filtrate with less than 5 ppm.

Special Features

- Higher specific velocity
- Raw water can be used for backwashing the filter

Advantages

- Higher specific flow rate than conventional downflow filters thereby saving on space and cost
- Very little maintenance required
- Lower backwash water requirement
- In most cases, raw water can be used for backwash

Applications

The INDION Multigrade Filter is an ideal choice for all applications where a conventional sand filter is used. It is extensively used in side stream filtration of cooling water and in potable water treatment. It is ideal for filtration of clarified water. In addition it finds application in sea water filtration and in filtration of chemical solutions. For these types of filtration, rubber lined or epoxy painted filters can be offered.

Specifications

One vertical cylindrical mild steel pressure vessel with dished ends, painted internally with anti-corrosive bitumastic paint and externally with a protective coat of red oxide primer.



- One set of internal water distribution and collection system
- One initial charge of filter sand and underbed material
- One set of frontal pipework and valves
- Two pressure gauges to monitor head loss across the filter
- One orifice board (optional) for indication wash water flow to be fitted in drain sump
- Maximum/minimum operating pressure will be 3.5 kg/cm²g and 2.0 kg/cm²g respectively
- INDION Multigrade Filters are available from 600 to 3000 mm diameters

Flow Rate Data (m³/h)

Model Number	Feed Water Suspended Solids	
	25 ppm	50 ppm
MF - 600	8	4
MF - 800	15	7
MF - 1000	23	12
MF - 1200	33	16
MF - 1400	46	23
MF - 1600	60	30
MF - 1800	76	38
MF - 2000	94	47
MF - 2200	113	56
MF - 2400	135	67
MF - 2600	159	79
MF - 2800	184	92
MF - 3000	211	105

Note: Suitable coagulant should be used for effective filtration.

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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