

## **INDION®** New Generation Manual & Auto Multi Grade Filter (NGMF)

INDION New Generation Multigrade filters (NGMF) series remove suspended solids from feed water. They also remove turbidity provided the feed water has already been coagulated and clarified. Filters are designed to handle a maximum flow of 35 m<sup>3</sup>/h.

### Features

- NGMF series of Multi Grade Filters is aesthetically designed, light weight and easy to install and maintain. It does not require any special foundation
- Specially graded coarse and fine sand is used as filter media which permits handling larger linear flow rate as compared to conventional single media filters resulting in lower footprint
- The entire unit is made up of plastic material. Pressure vessel is made of fibre reinforced plastic (FRP) and pipe work is of poly vinyl chloride (PVC)
- Filter is fitted with a single multi-port valve to be operated by hand lever for ease of operation
- Filter is backwashed by reversal of flow whenever the pressure drop across the unit exceeds the set limit.

### Applications

- Multi Grade Filters are used as the last step in the pretreatment of surface water for removal of the last traces of suspended solids (SS) and turbidity present in clarified water
- Multi Grade Filters are also used as side stream filters for removal of suspended solids in cooling tower recirculation water
- Pretreatment of feed water to membrane systems
- Pretreatment for mineral water bottling plants
- Swimming pool water filtration
- Drinking water supplies



### Specifications

- One FRP pressure vessel fitted internally with inlet and outlet strainers for distribution / collection of water
- One set of plastic frontal piping, linking multi-port valve/plastic ball valves to FRP vessel
- One complete charge of coarse and fine sand with under bed material
- One set of inlet and outlet pressure gauges
- One flow rate indicator at inlet (optional)
- One multi port valve fitted with a hand lever

## Technical Specification

Model	NGMF 20	NGMF 30	NGMF 40	NGMF 60	NGMF 85	NGMF 135	NGMF 195	NGMF 270	NGMF 350
Max Flow (m <sup>3</sup> /h)	2.0	3.0	4.0	6.0	8.5	13.5	19.5	27.0	35.0
<b>Connections with Unions (mm)</b>									
Inlet/ Outlet	32/32	50/50	50/50	50/50	50/50	63/63	63/63	90/90	90/90
Max Working Pressure (Kg/cm <sup>2</sup> )	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>Dimensions</b>									
Vessel Dia (mm)	305	355	400	550	610	770	927	1074	1226
Vessel Height (mm)	1236	1659	1671	1735	2163	2336	2336	2292	2470

Note :

Multi Grade Filters (Model no. NGMF 20 to 195) are fitted with a multi port valve operated by a hand lever  
Multi Grade Filters (Model no. 270 and NGMF 350) are fitted with individual butterfly valve with a hand operated lever.

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

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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