

INDION® New Generation Manual & Auto Carbon Filters

Indion New Generation Manual & Auto Carbon Filters (NGMA) are intended to remove Free Residual Chlorine (FRC) from feedwater. Granular Activated Carbon is used as a filter media. For removal of traces of oil, organic matter & odour, special grades of carbon-based on Iodine value can be supplied on request.

The pressure vessel is made of Fibre Reinforced Plastic (FRP). The pipes are of Poly Vinyl Chloride (PVC). The filters are fitted with a multiport valve operated through a manual or automated process.

Filters are designed to handle flow rates of up to 25 m³ /hr.

Features

- The filters are free-standing, aesthetically designed, lightweight, easy to install and maintain.
- The pressure vessel is made of FRP, PVC pipes. The entire unit is corrosion resistant.
- The carbon filters are fitted with a single multiport plastic valve operated by a hand lever or auto multiport valve for ease of operation and maintenance.

Applications

- Activated carbon filters are used as pretreatment of feed water to Demineralising (DM) plants and Reverse Osmosis (RO) units that require removal of free residual chlorine present in feedwater.
- For removal of traces of oil, organic matter, colour and odour, special grades of carbon can be supplied on request.

Specifications

- One FRP pressure vessel fitted internally with inlet and outlet strainers for distribution/uniform collection of water.



- One set of plastic frontal piping linking the MPV and the FRP vessel.
- One multiport valve operated by a hand lever for manual operation and auto MPV for auto operation. One initial charge of granular activated carbon with under-bed material.
- One rate of flow indicator (optional) at the inlet to measure the flow rate.
- One set of inlet and outlet pressure gauges.
- Higher Model Activated Carbon Filter (ACF) Units will be with individual butterfly valves for manual operation and butterfly valve with actuator for auto operation.
- Automation is carried out using a Programmable Logic Controller (PLC) that energizes a set of solenoid valves which in turn operate the butterfly control valves located on the unit.

Technical Specifications

Model	NGMA 20	NGMA 30	NGMA 45	NGMA 65	NGMA 110	NGMA 160	NGMA 200	NGMA 250
Inlet/Outlet	32/32	50/50	50/50	50/50	63/63	63/63	80/80	80/80
Max Flow (m ³ /h)	2	3	4.5	6.5	11	16	20	25
Max Working Pressure (kg/cm ²)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Dimensions								
Vessel Dia (mm)	305	400	550	610	770	927	1067	1219
Vessel Height (mm)	1236	1670	1735	2336	2336	2336	2336	2336

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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