

INDION® Activated Carbon Filters

The INDION Activated Carbon Filters are intended to remove free residual chlorine (FRC) present in feed water. Granular activated carbon is used as the filter media. A range of carbon filters are available to treat feed water up to 170 m³/h.

For removal of odour, organic matter and traces of oil, peat based activated carbon with larger pore size can be supplied on request.

Pressure vessels are designed as per IEI good engineering practice. Vessels conforming to ASME Sec. VIII can be supplied on request. Pressure vessels are of MS, MSRL or SS 316 construction. Frontal pipe work is available in PVC, MS, MSRL or SS 316.

Features

- Filters are compact and easy to install and maintain
- The filters can tolerate any variation or shock loads in free residual chlorine unlike chemical dosing systems which require constant monitoring and adjustment of dosages
- Pressure gauges at inlet and outlet are provided to measure pressure gauges across the unit. Filter backwash is carried out by reversal of flow

Applications

- Activated carbon filters are used in all applications like demineralising and reverse osmosis units that require removal of free residual chlorine present in feed water
- For removal of traces of oil, organic matter, colour and odour, special grades of carbon can be supplied on request



Specifications

- One vertical cylindrical mild steel pressure vessel with dished ends, painted internally with anti-corrosive epoxy paint and externally with a protective coat of red oxide primer
- One set of internal water distribution and collection system
- One initial charge of activated carbon and under bed material
- One set of frontal pipe work and valves
- Two pressure gauges to monitor head loss across the filter
- One no. bypass type rate of flow indicator at inlet (optional)
- One orifice board (optional) for indication wash water flow to be fitted in drain sump

Technical Specification

Model Number	Maximum Flow (m ³ /h)
ACF 600	6.8
ACF 800	12
ACF 1000	18.5
ACF 1200	27
ACF 1400	37
ACF 1600	48
ACF 1800	61
ACF 2000	75
ACF 2200	91
ACF 2400	108
ACF 2600	127
ACF 2800	148
ACF 3000	170

Maximum/minimum operating pressure - 3.5 kg/cm²g and 2.0 kg/cm²g respectively.

Note: Feed water should be clear and free from suspended solids and turbidity.

Custom built activated carbon filters designed for higher operating pressures and higher flow rates can be supplied on request.

The filter media needs to be replaced with fresh activated carbon when the free residual chlorine (FRC) at the outlet of filter shows a positive value.

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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