

## ergo Activated Carbon Filters

ergo Granular Activated Carbon Filter (GACF) is based on an adsorption process that involves passing liquid to be treated through a bed of granular activated carbon. ergo GACF removes refractory organic compounds as well as residual amounts of inorganic compounds such as nitrogen, sulphides and heavy metals. It also removes taste and odour components from wastewater in reuse application. Granular activated carbon with iodine value of 1000 is used in ergo GACF and the filter can be operated at varying flux range from 10 to 15m<sup>3</sup>/m<sup>2</sup>-Hr based on the inlet feed contaminant concentration and on the required product water contaminant concentration.

## Brief Specifications

Filtration unit comprises of Mild Steel vessel internally lined either with Rubber or Epoxy, Collection, distribution & Frontal piping in MS and required filter media. Alternatively, units that can handle flow rates upto 20 Cu.m/H are available with FRP vessel that is internally lined with food grade LLDPE, collection and distribution system in PP, uPVC frontal with multi port valve along with adequate filter media.



Ergonomic Design



Minimum Footprint



Maximum Convenience



Plug & Play



Easy Maintenance



Fontus Service Advantage

## Applications

- Potable water treatment
- Pretreatment for seawater desalination unit
- Tertiary treatment of secondary treated wastewater
- Removal of Color and odour creating compounds from water and wastewater
- Removal of refractory organics and traces of inorganic and heavy metals

## Standard Supplies

- One Vertical MS vessel –Rubber or Epoxy lined internally – Red Oxide Externally or One FRP vessel
- One set of internal Distribution and collection system
- One set of uPVC frontal piping with multi port valve or MS Epoxy piping
- One initial charge of filter media
- One set of Differential pressure gauge or Bourdon Pressure gauge at inlet and outlet to determine the pressure drop

## Technical Specifications

### ACF in FRP Vessel

Model Number	Diameter(mm)	HOS (mm)	Maximum Flow rate (m <sup>3</sup> /h)	Minimum Flow rate (m <sup>3</sup> /h)
ergo ACF 1054 - M/A	250	1350	0.7	0.5
ergo ACF 1354 - M/A	325	1350	1.2	0.8
ergo ACF 1665 - M/A	400	1625	2	1.3
ergo ACF 2162 - M/A	525	1550	3	2.2
ergo ACF 2472 - M/A	600	1800	4	3
ergo ACF 3072 - M/A	750	1800	6.5	4.5
ergo ACF 3672 - M/A	900	1800	9.5	6.5
ergo ACF 4272 - M/A	1050	1800	13	9
ergo ACF 4872 - M/A	1200	1800	17	11.3
ergo ACF 6367 - M/A	1575	1675	29	19.5

### ACF in MS Vessel

Model Number	Diameter(mm)	HOS (mm)	Maximum Flow rate (m <sup>3</sup> /h)	Minimum Flow rate (m <sup>3</sup> /h)
ergo ACF 800 - M/A	600	1000	4	3
ergo ACF 1000 - M/A	800	1000	7.5	5
ergo ACF 1200 - M/A	1000	1000	12	8
ergo ACF 1400 - M/A	1200	1000	17	11.5
ergo ACF 1500 - M/A	1400	1500	23	15.5
ergo ACF 1600 - M/A	1600	1500	30	20
ergo ACF 1800 - M/A	1800	1500	38	25.5

M- Manual; A- Auto

Max permissible working pressure is 10 kg/cm<sup>2</sup> and inlet feed water to be disinfected if the source is treated wastewater.

ergo GACF to be used only after Dual media filter or when inlet TSS into GACF is less than 5 mg/l.



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