

## ergo Dual Media Filters

ergo dual media filter is based on the depth filtration process that removes particulate material suspended in a liquid by passing the liquid through a composite filter bed comprised of different grades of sand and anthracite media. This filtration unit can be used in the treatment of potable water, filtration of effluents from wastewater treatment processes and removal of particulates in chemical treatment processes. The filter can be operated at varying flux range from 10 to 18m<sup>3</sup>/m<sup>2</sup>-Hr based on the inlet feed TSS range from 50 to 20mg/l respectively to achieve product water TSS concentration less than 5mg/l.

## Brief Specifications

Filtration unit comprise 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.

## Features and Benefits

Features	Benefits
MS vessels with Epoxy or rubber lining or FRP with food grade LLDPE lining	Non corrosive and improved service time
Filter vessel designed at a operating pressure of 5kg/cm <sup>2</sup>	High reliability and product of assured quality
uPVC frontal piping with MPV or MS with Epoxy painted frontal	Non corrosive frontal piping arrangement with Auto / Manual multiport valve for easy operation.
Hub and Lateral Distribution system for FRP and MS Epoxy painted for MS vessels	Non corrosive Poly Propylene hub and lateral distribution system that ensure uniform filtration across the filter.
NSF 61 Certified composite FRP vessel	Filter vessel suitable for potable water application



## Applications

- Potable water treatment
- Pretreatment for seawater desalination unit
- Tertiary treatment of secondary treated wastewater
- Precipitate filtration in the chemical treatment processes



Ergonomic Design



Minimum Footprint



Maximum Convenience



Plug & Play



Easy Maintenance



Fontus Service Advantage

## 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 with
- 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

### DMF in FRP Vessel

Model Number	Diameter(mm)	Height (mm)	Flow rate (m <sup>3</sup> /h) @ inlet TSS < 20 mg/l	Flow rate (m <sup>3</sup> /h)@ inlet TSS < 50 mg/l
ergo DMF 1054 - M/A	250	1350	1	0.5
ergo DMF 1354 - M/A	325	1350	1.5	1
ergo DMF 1665 - M/A	400	1625	2.5	1.5
ergo DMF 2162 - M/A	525	1550	4	2.5
ergo DMF 2472 - M/A	600	1800	5	3.5
ergo DMF 3072 - M/A	750	1800	8	5
ergo DMF 3672 - M/A	900	1800	11.5	7.5
ergo DMF 4272 - M/A	1050	1800	15.5	10.5
ergo DMF 4872 - M/A	1200	1800	20	13.5
ergo DMF 6367 - M/A	1575	1675	35	20

### DMF in MS Vessel

Model Number	Diameter(mm)	Height (mm)	Flow rate (m <sup>3</sup> /h) @ inlet TSS < 20 mg/l	Flow rate (m <sup>3</sup> /h)@ inlet TSS < 50 mg/l
ergo DMF 800 - M/A	600	1500	5	3.5
ergo DMF 1000 - M/A	800	1500	9	6
ergo DMF F 1200 - M/A	1000	1500	14	9.5
ergo DMF 1400 - M/A	1200	1500	20.5	13.5
ergo DMF 1500 - M/A	1400	1500	28	18.5
ergo DMF 1600 - M/A	1600	2000	36.2	24
ergo DMF 1800 - M/A	1800	2000	46	30.5
ergo DMF 2000 - M/A	2000	2000	55	38.0

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. For efficient removal of colloidal particles, suitable coagulant should be used.

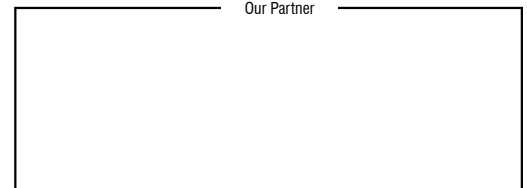


### FONTUS WATER PVT. LTD.

A-1/152, Neb Sarai, IGNOU Road, New Delhi-110 068, INDIA  
 T: +91-11-4310 0561/541 | F: +91-11-4310 0599 | M: +91-97176 90522  
 E: sales@fontuswater.com | W: www.fontuswater.com



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