

ENVOTECH

GRANULAR MEDIUM PRESSURE FILTERS



ENVOTEX EOOD – ENVOTECH LTD

ул. ЛЕОНАРДО ДА ВИНЧИ 20 – 20, LEONARDO DA VINCI ST.

4000 ПЛОВДИВ БГ – 4000 PLOVDIV BG

ТЕЛЕФОН/ФАКС – TELEPHONE/FAX: +359 032 620802

БУЛСТАТ/BULSTAT: 160099714 - ДАН НОМ/VAT: BG160099714

DESCRIPTION

Granular Media Filtration is the process for the removal of suspended solids by the passage of water through a porous medium.

The filtration process results in a gradual accumulation of retained solids within the granular media, which require intermittent removal by a filter backwash cycle.

This cycle typically comprises both air and water wash phases, to effectively loosen and flush out the retained solids to waste.

Filters are classified according to the types of media used as:

- single-media filters, when there is only one type of filtration media, as sand or activated carbon
- dual-media filters, when there are two types of filtration media, as sand and activated carbon, or sand and manganese dioxide
- multi-media filters, when there are three or more types of media

The choice of the filtering media depending on the applications and target of the filtration process.

Our filters **GMF** class offer excellent performances due to the precise design, the quality of the materials and the components, the careful construction and the severe tests performed on each unit.

Main applications of our pressure filters **GMF** are:

- filtration of well water
- filtration of surface water (river or lake) with or without in line flocculation
- iron and manganese oxidation and removal
- organic pollutant removal

Main operating data are:

- pressure 2 – 5 bar
- testing pressure 5 – 7.5 bar
- backwash pressure 1.5 bar
- working temperature 3 – 40 °C
- Head loss 0.7 – 1.2 bar

All units are supplied ready to be installed, and on request installed, started and tested by our technicians.

All units are supplied with **CE** certifications, complete technical passport including all details of design, manufacturing and testing and with use and maintenance handbook.

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MODELS AND TECHNICAL CHARACTERISTICS

Model	Dimensions		Operational parameters		
	Diameter, mm	Square section, m ²	Q, m ³ /h at v=15 m/h	Q, m ³ /h at v=20 m/h	Q, m ³ /h at v=25 m/h
GMF/0500	500	0,20	2,94	3,93	4,91
GMF/0750	750	0,44	6,62	8,83	11,04
GMF/1000	1000	0,79	11,78	15,70	19,63
GMF/1500	1500	1,77	26,49	35,33	44,16
GMF/1800	1800	2,54	38,15	50,87	63,59
GMF/2000	2000	3,14	47,10	62,80	78,50
GMF/2200	2200	3,80	56,99	75,99	94,99

NOTE: For any other need or question, please contact our technical office.

On request, we can build filters of any other dimension with the same quality and care.

ENVOTECH Ltd. has the right to make changes at any time, even without notice, in order to achieve better performances and quality of its products.