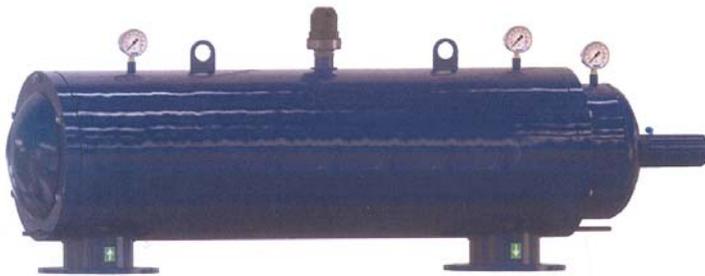


Automatic Hydraulic Filters FXH

Automatic hydraulic screen filters suitable for all applications, and available in a wide range of micron sizes, all with the same high quality guarantee by EGI



There are solutions available for working with pressures higher than 1 bar / 145 psi or saline water. Control unit is included.

TECHNOLOGY

EGI FXH filters continue to supply filtered water without interruption during the flushing cycle.

The water flows through the inlet (1) and enters through the pre-filter (2) to the inside of the filter element.

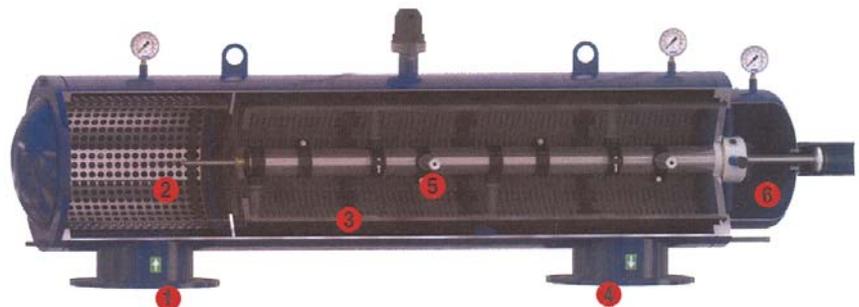
The water then passes through the screen (3), and the particles are retained on the inside of the filter element (screen). The filtered water then flows out through the outlet (4).

When the pressure differential from inlet to outlet of the filter reaches the pre-selected level the flushing cycle starts (P). A hydraulic valve opens in the drain port, which initiates suction in the inner nozzles (5). This, along with the helical movement up and down the screen sucks the captured particles into the waste flow, and this is expelled out the drain port. (6)

The length of the flush cycle is pre-determined by the control unit. When the cycle is complete the flush valve closes and the flushing ends. The flushing process uses a minimal amount of water.

ADVANTAGES

- **Energy Efficient:** The consumption of water in the flushing cycle is minimal.
- **Wide selection of screens:** Screens available from 80 to 1000 micron.
- **Versatility:** Inle/Outlet from 4" to 2' // 100-300 mm.
- **Resistance:** Temperatures to 60°C (140° F).
- **Large screen area:** Up to 12000 cm² (1860 in²).
- **Resistant material:** The screen is manufactured in high quality stainless steel.
- **Time saving:** The filtration process and the flushing cycle occur simultaneously.
- **Easy installation:** The filters are delivered to be installed.



| Model | DN CONNECTION | | | | Filtering Surface | |
|------------------|-----------------------|-----|--------------------------|----|-------------------|-----------------|
| | Inlet - Outlet Flange | | Drainage Female - Thread | | | |
| | " | mm | " | mm | cm ² | in ² |
| EGI FXH 2400/4 | 4" | 100 | 2" | 63 | 2400 | 370 |
| EGI FXH 4800/6 | 6" | 150 | 2" | 63 | 4800 | 745 |
| EGI FXH 7200/6 | 6" | 150 | 2" | 63 | 7200 | 1115 |
| EGI FXH 7200/8 | 8" | 200 | 2" | 63 | 7200 | 1115 |
| EGI FXH 9600/8 | 8" | 200 | 2" | 63 | 9600 | 1490 |
| EGI FXH 12000/10 | 10" | 250 | 2" | 63 | 12000 | 1860 |

All model are with flange connections. DIN 2576.
Ask for the rest of configurations in EGI

MATERIAL

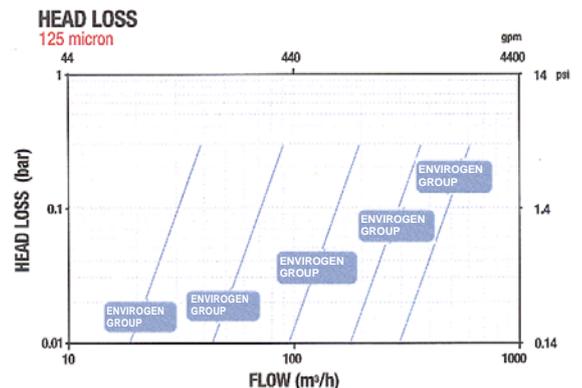
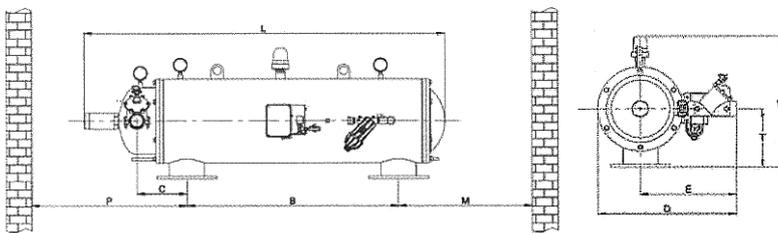
| | |
|-----------------------|--|
| Housing of the filter | Carbon steel epoxy-polyester coated (S-235-JR EPOXY- POLYESTER coated) |
| Filtering element | Stainless Steel AISI-316-L. Molded screen |
| Scanner | Stainless Steel-304 |
| Sealing elements | NBR |
| Drainage Valve | Polypropilene |
| Air release valve | 1" BSP Triple effect. Manufactured in technical plastic |

Battery or 220V AC control unit included.

Max. Pressure 10 bar / 145 psi - Min. pressure 2.5 bar / 36.3 psi
Max. temperature 60°C / 140 F

| Model | CONNECTION | | FILTRATION | | | | FLUSHING CYCLE | | | | |
|------------------|-----------------------|-----|-------------------|-----------------|-------------------|------|----------------|-----|-------|--------|-----|
| | Inlet - Outlet Flange | | Filtering Surface | | Max flow | | Flow rate | | Time | Volume | |
| | " | mm | cm ² | in ² | m ³ /h | gpm | l/s | gpm | s | l | g |
| EGI FXH 2400/4 | 4" | 100 | 2400 | 370 | 80 | 350 | 0.8 | 13 | 18 | 15.5 | 4.1 |
| EGI FXH 4800/6 | 6" | 150 | 4800 | 745 | 150 | 660 | 1.4 | 22 | 25-30 | 45 | 12 |
| EGI FXH 7200/6 | 6" | 150 | 7200 | 1115 | 150 | 660 | 3.3 | 53 | 25-30 | 100 | 26 |
| EGI FXH 7200/8 | 8" | 200 | 7200 | 1115 | 260 | 1145 | 3.3 | 53 | 25-30 | 100 | 26 |
| EGI FXH 9600/8 | 8" | 200 | 9600 | 1490 | 300 | 1320 | 5.3 | 84 | 25-30 | 160 | 42 |
| EGI FXH 12000/10 | 10" | 250 | 12000 | 1860 | 435 | 1915 | 6.4 | 101 | 25-30 | 215 | 57 |

The flow rate given by filter conditions the frequency of the flushing activation.
Maximum recommended flow rate: 125 micron and water good quality.
Min. flushing pressure: 2.5 bar / 36.3 psi in outlet manifold.
Ask for other filtration grades.



| Model | DIMENSIONS | | | | | | | | | | | | WEIGHT | | | | | | | | | |
|------------------|------------|----|-----|----|-----|----|------|----|-----|----|-----|----|--------|----|-----|----|------|----|--------------------|------|---------------------|-----|
| | L | | W | | D | | B | | C | | E | | T | | M | | P | | Full filter Weight | | Empty filter Weight | |
| | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | kg | lb | kg | lb |
| EGI FXH 2400/4 | 1162 | 46 | 630 | 25 | 660 | 26 | 360 | 14 | 273 | 11 | 456 | 18 | 280 | 11 | 687 | 27 | 860 | 34 | 179 | 394 | 62 | 137 |
| EGI FXH 4800/6 | 1435 | 56 | 630 | 25 | 660 | 26 | 770 | 30 | 215 | 8 | 456 | 18 | 280 | 11 | 610 | 24 | 798 | 31 | 237 | 523 | 75 | 165 |
| EGI FXH 7200/6 | 1710 | 67 | 630 | 25 | 660 | 26 | 1000 | 39 | 237 | 9 | 456 | 18 | 280 | 11 | 635 | 25 | 1100 | 43 | 293 | 645 | 90 | 198 |
| EGI FXH 7200/8 | 1710 | 67 | 630 | 25 | 660 | 26 | 900 | 35 | 237 | 9 | 456 | 18 | 280 | 11 | 685 | 27 | 1150 | 45 | 299 | 659 | 96 | 212 |
| EGI FXH 9600/8 | 1985 | 78 | 630 | 25 | 660 | 26 | 1100 | 43 | 325 | 13 | 456 | 18 | 280 | 11 | 820 | 32 | 1460 | 57 | 438 | 968 | 131 | 289 |
| EGI FXH 12000/10 | 2260 | 89 | 630 | 25 | 660 | 26 | 1370 | 54 | 328 | 13 | 456 | 18 | 280 | 11 | 820 | 32 | 1740 | 69 | 457 | 1007 | 164 | 362 |

All models are with flange connections. DIN 2576
M-P = Minimal recommended distance for maintenance operations.
Ask for the rest of configurations in EGI

99_01_EN



UK Office:

Envirogen Water Technologies
Unit 14a Bromyard Road
Trading Estate
Bromyard Road, Ledbury
Herefordshire HR8 1NS
Tel: +44 (0) 1531 636328
E: info@envirogengroup.com
www.envirogengroup.com



Italian Office:

Envirogen Group Italy S.p.A
Viale De GASPERI,88/B
20017 Mazzo di Rho Milano
Tel: +39 (0)2 93959.1
E: info.it@envirogengroup.com
www.envirogengroup.com



USA Office:

Envirogen Technologies
Two Kingwood Place
700 Rockemad Dr. Suite 105
Kingwood, TX 7739
Tel: +1 877.312.8950
E: infor@envirogen.com
www.envirogen.com