

Self-Cleaning Vortix 200

In-line Self Cleaning Equipment with disc filtering elements and 2" (Series 200) or 3" (Series 300) valves.

High density polyethylene manifolds. Easy to install. Maximum resistance and durability.

Max. Flow: 256 m³/h

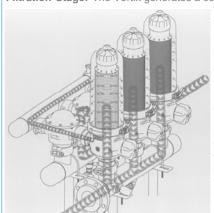


Modular configurations can be designed to costumer preference or space availability. Automation available in 120 V, 220 V or 12 V. Design solutions also available for high or low pressure and sea water/saline water. Compressed air canbe used for backwashlng.

TECHNOLOGY

ENVIROGEN Vortix 200 backwashes one station at a time. Remaining elements continue filtering.

Filtration Stage: The Vortix generates a centrifugal helical effect upon entry into the



filter, this moves the particles away from the discs. The water then passes efficiently trough the depth of the uniquely designed discs.

Backlushing stage: The clean water from the auxiliary filter is introduced from the reverse direction through the filtering element. This decompresses the stack discs, allowing the discs to separate and back wash efficiently. The solids are expelled d from the discs and evacuate through the back wash manifold. The filtration process then resterts with the compression of the discs. The back wash is controller by two valves and a controller, which integrate the filtration equipment.

ADVANTAGES

- Disc Filtration. Maximum safety: Its patented design and high quality materials used in manufacturing guarantee an estende life with high resi stance.
- Vortix 200 System: Vortix 200 created Centrifugal Action optimizes the filtration performance and reduces backwash frequency and maintenance.
- Self-cleaning filtering element: Backwashing uses minimal water maintaining an efficient cleaning action. Large filtering surface. Envirogen filtration units available from 5 to 500 micron.

- Modularity, Versatility, Compatibility: The system permits a wide range of flows and configurations using a minimal number of components.
- Compact assembled systems for easy trasportation and installation.
- Manufactured in plastic materials.
- Low Maintenance. No tools required. Maximum wear resistence of high quality moving parts.
- Water and energy saving.



Filtration Maximum flow filterVortix 200 Automatic filter filtering surface 1482 cm²

| Quality of water | micron | 200 | 130 | 130 100 | 50 | 20 |
|------------------|-------------------|-----|-----|---------|----|----|
| GOOD | m ³ /h | 36 | 32 | 24 | 17 | 9 |
| AVERAGE | m ³ /h | 32 | 30 | 20 | 14 | 7 |
| POOR | m ³ /h | 26 | 24 | 18 | 10 | 5 |
| VERY POOR | m³/h | 15 | 14 | 12 | 7 | 3 |

HOW TO CHOOSE VORTIX AUTOMATIC EQUIPMENT

1. Determine the required filtration grade (micron).

Number of filter =

Flow to filter in the installation

Max. Flow per filter

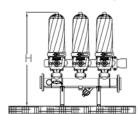
- 2. Establish the quality of the water.
- 3. Calculate according to the following equativo, the number of filters required with the selected SERIES.

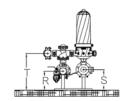
NOTE: The flow rate given by the filter conditions determines the frequency of the backwashing

MATERIAL

| Manifold | High Density Polyethylene |
|-------------------|--------------------------------------|
| Housing | Polyamide reinfirced with fiberglass |
| Filtering element | PP grooved discs |
| Sealing element | NBR |

pH>4 • Maximum pressure 10 bar / 145 psi • Maximum temperature 60°C / 140 F

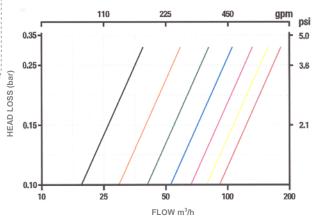




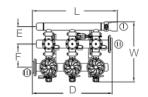
BACKFLUSHING

| | 200 - 130 micron | 100 micron | 50-20 micron | | | |
|---|---------------------|---------------|-----------------|--|--|--|
| Minimum backflushing pressure per filter | 2.8 bar | 3.5 bar | 4 bar | | | |
| Minimum backflushing flow per filter | 2.5 l/s | 3.1 l/s | 3.3 l/s | | | |

Automatic HEAD LOSS 130 micron



SERIES 200 —202—203—204—205—206—207—208



- Drainage manifold
- II Inlet manifold
- Outlet manifold

| Model | Specifications | | | | Dimensions (mm) | | | | | | | | | | | | | | | | | |
|------------------|----------------|----------|------------------------------|-------------------------------|-----------------|----|---------|----|---------|----|---------|----|---------|---------|---------|----|-----|----|---------|----|---------|----|
| | N. Filters | Manifold | Filtering (cm ²) | Surface (in ²) | F mm | in | E mm | in | D mm | in | L mm | in | W mm | l in | F mm | in | mm | in | S mm | in | H mm | in |
| VORTIX 202 / 3FX | 2"x 2 | 3"- 90 | 2984 | 463 | 272 | 11 | 204 | 8 | 575 | 23 | 698 | 27 | 700 | 28 | 491 | 19 | 257 | 10 | 272 | 11 | 1080 | 43 |
| VORTIX 203 / 4FX | 2"x 3 | 4"-110 | 4476 | 694 | 272 | 11 | 204 | 8 | 830 | 33 | 945 | 37 | 700 | 28 | 511 | 20 | 267 | 11 | 281 | 11 | 1100 | 43 |
| VORTIX 204 / 6FX | 2"x 4 | 6"-160 | 5968 | 925 | 272 | 11 | 204 | 8 | 1065 | 42 | 1220 | 48 | 700 | 28 | 561 | 22 | 292 | 12 | 307 | 12 | 1150 | 45 |
| VORTIX 205 / 6FX | 2"x 5 | 6"-160 | 7460 | 1156 | 272 | 11 | 204 | 8 | 1420 | 56 | 1542 | 61 | 700 | 28 | 561 | 22 | 292 | 12 | 307 | 12 | 1150 | 45 |
| VORTIX 206 / 6FX | 2"x 6 | 6"-160 | 8952 | 1388 | 272 | 11 | 204 | 8 | 1695 | 67 | 1817 | 72 | 700 | 28 | 561 | 22 | 292 | 12 | 307 | 12 | 1150 | 45 |
| VORTIX 207 / 6FX | 2"x 7 | 6"-160 | 10444 | 1619 | 272 | 11 | 204 | 8 | 1970 | 78 | 2104 | 83 | 700 | 28 | 561 | 22 | 292 | 12 | 307 | 12 | 1150 | 45 |
| VORTIX 208 / 8FX | 2"x 8 | 8"-200 | 11936 | 1850 | 272 | 11 | 204 | 8 | 2245 | 88 | 2411 | 95 | 700 | 28 | 601 | 24 | 312 | 12 | 327 | 13 | 1190 | 47 |

Dimensions o! the models with grooved connection. Available in flange connection. Drainage Manilold includes PVG connection. Other conligurations in info.it@envirogengroup.com

F-56-00-UK



UK Office:

Envirogen Group 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: info@envirogen.com www.envirogen.com