

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 (1125 gpm)



Modular configurations can be designed to customer 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 can be used for backwashing.

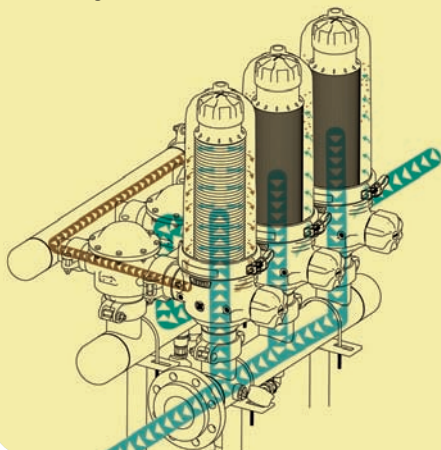
ADVANTAGES

- ✓ **Disc Filtration. Maximum safety.** Its patented design and high quality materials used in manufacturing guarantee an extended life with high resistance.
- ✓ **AZUD HELiX System.** Helix 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. AZUD filtration units available from 5 to 500 micron.



TECHNOLOGY

AZUD HELiX AUTOMATIC backwashes one station at a time. Remaining elements continue filtering.



FILTRATION STAGE: The Helix generates a centrifugal helical effect upon entry into the filter, this moves the particles away from the discs. The water then passes efficiently through the depth of the uniquely designed discs.

BACKFLUSHING 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 backwash efficiently.

The solids are expelled from the discs and evacuated through the backwash manifold. The filtration process then restarts with the compression of the discs. The backwash is controlled by two valves and a controller, which integrate the filtration equipment.

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

HELIx AUTOMATIC AZUD SERIES 300 SERIES 200

FILTRATION Maximum flow per filter
 AZUD HELIX AUTOMATIC filter filtering surface 1492 cm² / 231 in²

| QUALITY OF WATER | micron mesh | SERIE 300 | | SERIE 200 | | | |
|------------------|--------------------------|-----------|-----------|-----------|----------|---------|----|
| | | 200 75 | 130 120 | 130 120 | 100 150 | 50 | 20 |
| GOOD | m ³ /h gpm | 36 157 | 32 139 | 24 105 | 17 77 | 9 38 | |
| AVERAGE | m ³ /h gpm | 32 139 | 30 131 | 20 88 | 14 61 | 7 31 | |
| POOR | m ³ /h gpm | 26 113 | 24 105 | 18 79 | 10 46 | 5 23 | |
| VERY POOR | m ³ /h gpm | 16 70 | 14 61 | 12 53 | 7 31 | 3 15 | |

HOW TO CHOOSE AZUD HELIX AUTOMATIC EQUIPMENT

1. Determine the required filtration grade (micron).
2. Establish the quality of the water.
3. Calculate according to the following equation, the numbers of filters required with the selected SERIES.

$$\text{Number of filters} = \frac{\text{Flow to filter in the installation}}{\text{Max. Flow per filter}}$$

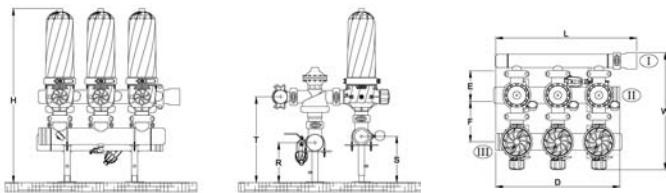
NOTE : The flow rate given by the filter conditions determines the frequency of the backwashing.

MATERIAL

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

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

AZUD HELIX AUTOMATIC



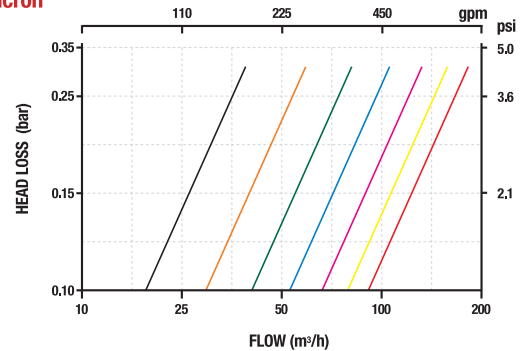
- I Collector drainage
Drainage manifold
- II Collector entrance
Inlet manifold
- III Collector solids
Outlet manifold

BACKFLUSHING

| | 200 - 130 micron 75-120 mesh | 100 micron 150 mesh | 50-20 micron |
|--|---------------------------------|------------------------|-------------------|
| Minimum backflushing pressure per filter | 2.8 bar 40 psi | 3.5 bar 50 psi | 4 bar 58 psi |
| Minimum backflushing flow per filter | 2.5 l/s 39 gpm | 3.1 l/s 50 gpm | 3.3 l/s 52 gpm |

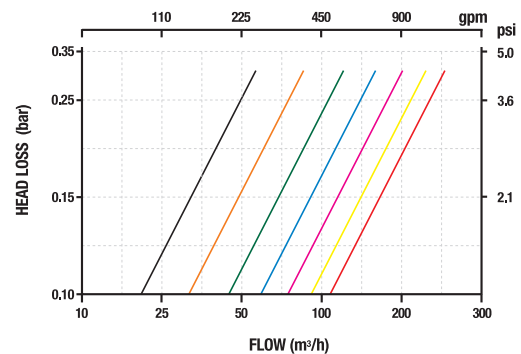
AZUD HELIX AUTOMATIC HEAD LOSS

130 micron



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

SERIES 300 — 302 — 303 — 304 — 305 — 306 — 307 — 308



| Model | Specifications | | | | Dimensions (mm) | | | | | | | | | | | | | | | | | | |
|------------|----------------|----------|--------------------------------------|--------------------------------------|-----------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | N. Filters | Manifold | Filtering Surface (cm ²) | Filtering Surface (in ²) | F | E | D | L | W | R | T | S | H | F | E | D | L | W | R | T | S | H | |
| SERIES 200 | 202/3VX | 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 |
| | 203/4VX | 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 |
| | 204/6VX | 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 |
| | 205/6VX | 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 |
| | 206/6VX | 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 |
| | 207/6VX | 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 |
| | 208/8VX | 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 |
| | SERIES 300 | 302/4VX | 3"x 2 | 4"-110 | 2984 | 463 | 311 | 12 | 230 | 9 | 644 | 23 | 714 | 28 | 785 | 31 | 573 | 23 | 267 | 11 | 309 | 12 | 1162 |
| 303/4VX | | 3"x 3 | 4"-110 | 4476 | 694 | 311 | 12 | 230 | 9 | 830 | 33 | 956 | 37 | 785 | 31 | 573 | 23 | 267 | 11 | 309 | 12 | 1162 | 46 |
| 304/6VX | | 3"x 4 | 6"-160 | 5968 | 925 | 311 | 12 | 230 | 9 | 1065 | 42 | 1220 | 48 | 785 | 31 | 623 | 25 | 292 | 12 | 334 | 13 | 1212 | 48 |
| 305/6VX | | 3"x 5 | 6"-160 | 7460 | 1156 | 311 | 12 | 230 | 9 | 1420 | 56 | 1553 | 61 | 785 | 31 | 623 | 25 | 292 | 12 | 334 | 13 | 1212 | 48 |
| 306/6VX | | 3"x 6 | 6"-160 | 8952 | 1388 | 311 | 12 | 230 | 9 | 1695 | 67 | 1828 | 72 | 785 | 31 | 623 | 25 | 292 | 12 | 334 | 13 | 1212 | 48 |
| 306/8VX | | 3"x 6 | 8"-200 | 8952 | 1388 | 311 | 12 | 230 | 9 | 1695 | 67 | 1848 | 73 | 785 | 31 | 633 | 25 | 320 | 13 | 355 | 14 | 1257 | 48 |
| 307/8VX | | 3"x 7 | 8"-200 | 10444 | 1619 | 311 | 12 | 230 | 9 | 1970 | 78 | 2135 | 84 | 785 | 31 | 633 | 25 | 320 | 13 | 355 | 14 | 1257 | 48 |
| 308/8VX | | 3"x 8 | 8"-200 | 11936 | 1850 | 311 | 12 | 230 | 9 | 2245 | 88 | 2410 | 95 | 785 | 31 | 633 | 25 | 320 | 13 | 355 | 14 | 1257 | 48 |

Dimensions of the models with grooved connection.
 Available in flange connection.
 Drainage Manifold includes PVC connection.
 Other configurations in www.azud.com