

AZUD HELIX

AUTOMATIC

Automatic Disc Filter that allows to obtain the maximum quality in filtration and minimum energy consumption on each backflushing process.



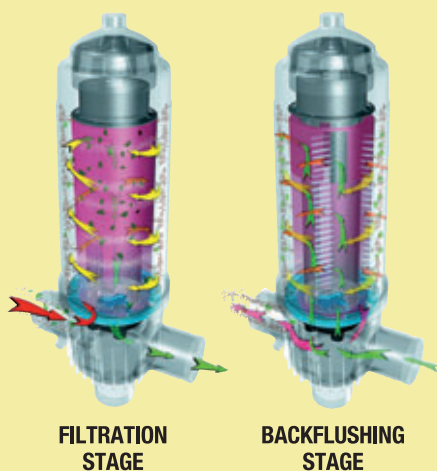
ADVANTAGES

- ✓ **Water and energy saving.** Minimum backflushing pressure for maximum efficiency per filter
- ✓ **Disc Filtration. Maximum safety.** Its patented design and high quality materials used in manufacturing guarantee an extended life with high resistance.
- ✓ **AZUD HELIX System.** The helical 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 400 micron.



Modular configurations can be designed to customer preference or space availability.
Automation available in 110 V, 220 V or 12 V. Design solutions also available for sea water/saline water.

TECHNOLOGY



FILTRATION
STAGE

BACKFLUSHING
STAGE

FILTRATION STAGE: The Helix generates a centrifugal helical effect upon entry into the filter, which moves the particles away from the discs.

The water then passes efficiently through the depth of the discs.

BACKFLUSHING STAGE: The clean water is introduced from the reverse direction through the filtering element. This decompresses the stack of discs, allowing the discs to separate and backwash efficiently.

The solids are expelled from the discs and evacuated through the drainage manifold. The filtration process then restarts with the compression of the discs.

- ✓ **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.

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FILTRATION Maximum flow per filtering element

| AZUD HELIX AUTOMATIC | | micron mesh | 400 40 | 200 75 | 130 120 | 100 150 | 50 | 20 | 10 | 5 |
|----------------------|-------------------|-------------|-----------|-----------|------------|------------|----|----|----|----|
| GOOD WATER | m ³ /h | | 36 | 32 | 24 | 17 | 9 | 7 | 6 | 6 |
| | gpm | | 157 | 139 | 105 | 77 | 38 | 31 | 26 | 26 |
| AVERAGE WATER | m ³ /h | | 32 | 30 | 20 | 14 | 7 | 5 | 4 | 4 |
| | gpm | | 139 | 131 | 88 | 61 | 31 | 23 | 18 | 18 |
| POOR WATER | m ³ /h | | 26 | 24 | 18 | 10 | 5 | 4 | 3 | 3 |
| | gpm | | 113 | 105 | 79 | 46 | 23 | 18 | 15 | 15 |
| VERY POOR WATER | m ³ /h | | 16 | 14 | 12 | 7 | 3 | 2 | 1 | 1 |
| | gpm | | 70 | 61 | 53 | 31 | 15 | 9 | 5 | 5 |

| AZUD HELIX AUTOMATIC | Filtering surface |
|----------------------|---|
| 2S | 1492 cm ² 231 in ² |
| 3N | 1492 cm ² 231 in ² |
| 4S | 2984 cm ² 463 in ² |

| | | | |
|-----------------------|-----------------------|------------------------|------------------------|
| 400 micron. (40 mesh) | 200 micron. (75 mesh) | 130 micron. (120 mesh) | 100 micron. (150 mesh) |
| 50 micron. | 20 micron. | 10 micron. | 5 micron. |

MATERIAL

| | |
|-------------------|--------------------------------------|
| Housing | Polyamide reinforced with fiberglass |
| Filtering element | PP grooved discs |
| Clamp | Stainless steel |
| Sealing element | NBR |

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

AZUD HELIX AUTOMATIC SERIES

Self Cleaning Equipments with discs filtering element and 2" (SERIE 200), 3" (SERIE 300), 4" (SERIE 4DCL) valves.

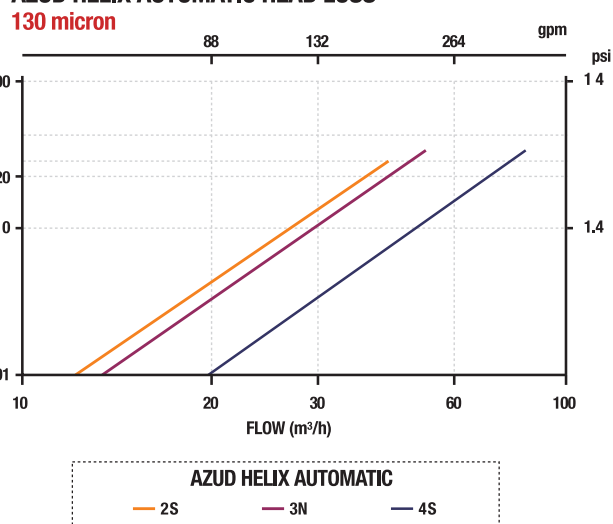
Easy to install. Maximum resistance and durability.



AZUD HELIX AUTOMATIC

| | 2" SUPER // 3" | 4" |
|--|----------------|---------|
| Minimum backflushing pressure per filter | 2.8 bar | 2.8 bar |
| | 40 psi | 40 psi |
| Minimum backflushing flow per filter | 2.5 l/s | 5 l/s |
| | 39 gpm | 78 gpm |

AZUD HELIX AUTOMATIC HEAD LOSS



| FILTER CONFIGURATION | Diameter | Model | Connection | | | Dimensions | | | | | |
|----------------------|----------|-------|------------|---------|---------|------------|----|-----|----|-----|---|
| | | | A | B | C | H | W | X | | | |
| | 2" Super | 2SR | BSP | BSP | BSP | 721 | 28 | 309 | 12 | 133 | 5 |
| | | 2SA | NPT | NPT | NPT | | | | | | |
| | | 2SV | GROOVED | GROOVED | BSP | | | | | | |
| | | 2SW | GROOVED | BSP | GROOVED | | | | | | |
| | 3" | 3NR | BSP | BSP | BSP | 727 | 29 | 336 | 13 | 147 | 6 |
| | | 3NA | NPT | NPT | NPT | | | | | | |
| | | 3NV | GROOVED | GROOVED | BSP | | | | | | |
| | | 3NW | GROOVED | BSP | GROOVED | | | | | | |
| | 4" Super | 4SL | GROOVED | GROOVED | - | 1200 | 47 | 341 | 13 | - | - |

Connection E 3/4" BSP • Connection M 1/4" BSP

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2S, 3N

4S

