

AZUD HELIX AUTOMATIC

DLP Technology

Low Pressure Backflush

1.5 bar/21 psi

AZUD HELIX AUTOMATIC DLP allows the reduction of the energetic use of the filtration installations, increasing their performance, and demanding the minimal pressure consumptions and flow rate on each backwashing, keeping the maximum efficiency in a wide filtration grades range.

These equipments adapt to installations in which the pressure conditions are a limiting to the rest of self-cleaning systems.



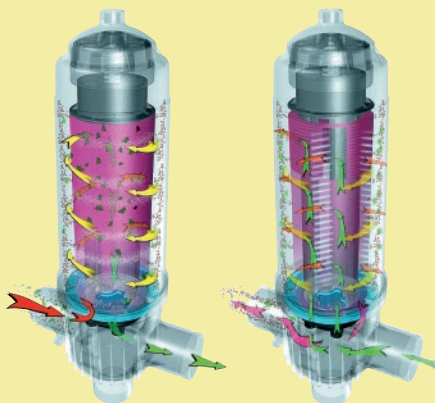
ADVANTAGES

- ✓ **Water and energy saving.**
Minimum backflushing pressure for maximum efficiency per filter. Optimizing energy consumption.
- ✓ **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 DLP.**
Backwashing uses minimal water maintaining an efficient cleaning action.
Wide filtration range (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 LOW PRESSURE DLP STAGE

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 LOW PRESSURE DLP STAGE: The clean water 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.

- ✓ **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.

AZUD Helix AUTOMATIC

FILTRATION Maximum flow per filtering element

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

Other filtration grades available.

AZUD HELIX AUTOMATIC DLP	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 discs
Clamp	Stainless steel
Sealing element	NBR

pH>4 • Maximum pressure 6 bar / 87 psi • Maximum temperature 60°C / 140 F

SERIES

The technology of DLP filters is compatible with all AZUD standard ranges.

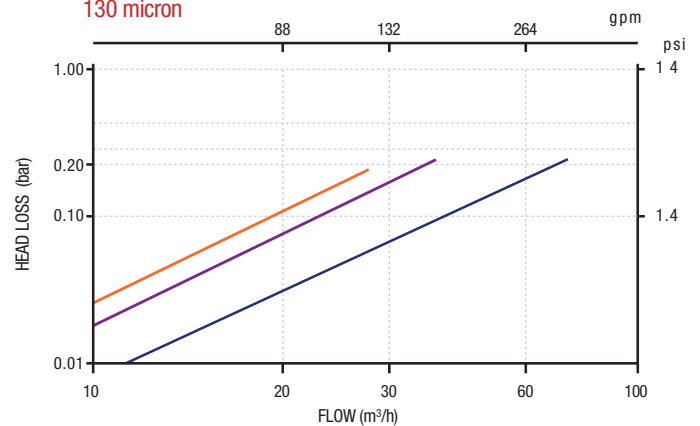


AZUD HELIX AUTOMATIC DLP

	2" SUPER // 3"	4"
Minimum backflushing pressure per filter	1.5 bar 21 psi	1.5 bar 21 psi
Minimum backflushing flow per filter	2.5 l/s 39 gpm	5 l/s 78 gpm

AZUD HELIX AUTOMATIC DLP HEAD LOSS

130 micron



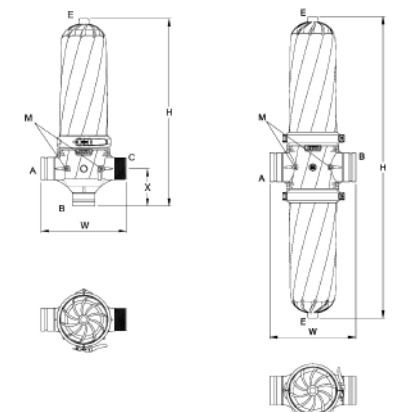
AZUD HELIX AUTOMATIC DLP

— 2S — 3N — 4S

AZUD HELIX AUTOMATIC DLP

2S, 3N

4S



FILTER CONFIGURATION	Diameter	Model	Connection			Dimensions							
			A	B	C	H		W		X			
						mm	in	mm	in	mm	in	mm	in
	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