



HELIX: A revolution in filtration

Low maintenance filtration systems

www.azud.com

AZUD HELIX SYSTEM filtration range is based on low maintenance and optimum safety in filtration.

The Helix System at the forefront of innovations: The helix system produces a helical effect that is patented and exclusive for the filters and filtration produced by AZUD.



1. Maximum safety in filtration: Filtering element of high precision

The filtering element of discs and mesh, together with its interior design, hinder the particles that can cause clogging to pass into the installation. Highly resistant to silting up therefore assuring a quality filtration during its lifespan.



2. Reduces the number of cleaning sessions: Maximum savings of water and minimum maintenance

The helical element patented by AZUD, originates the exclusive helical effect AZUD HELIX, moving the particles away from the filtering element. This dramatically reduces the number of necessary cleaning sessions and minimises the water consumed. **AZUD HELIX** obtains a great performance from **azud** filters, both in the models with manual cleaning as in selfcleaning.

3. Maximum operative capacity: Modularity



It is easy and quick to install, polyamide casing reinforced with optical fibre guarantees the maximum resistance and effectiveness in handling. Its modulating capacity provides an array of installation possibilities, as well as maintenance operations (connection, filtration degree, flow, etc.)



The perfect integration of all and each one of the components of **AZUD HELIX AUTOMATIC** guarantee the maximum **safety** in the installation, combining **operative capacity** with **resistance and filtration quality**, achieving a **top performance** in this filtration system.

Applications: Filtration of all types of water qualities, irrespective of their origin and destination

- Does not need electricity
- Allow you to select the degree of filtration
- Work in any position
- Functions with all types of particles, irrespective of their nature and size
- Reduces the number of cleaning sessions
- Allows you to extract an important amount of sand



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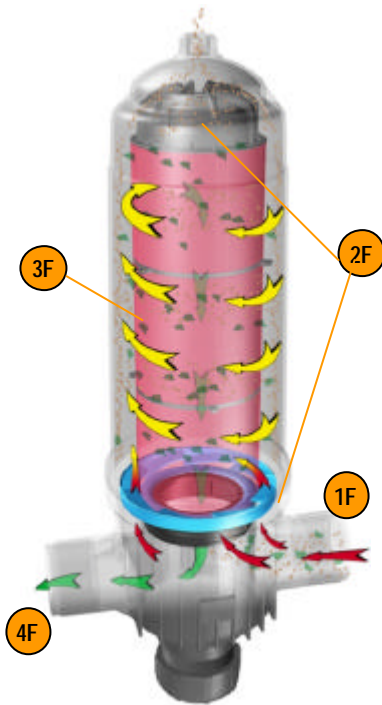
Tel.: (+34) 968 808402
E-mail: azud@azud.com
Web: www.azud.com

AZUD



Operation AZUD HELIX SYSTEM filter

AZUD HELIX SYSTEM has been designed with the objective of achieving maximum saving in water, energy and labour.



1F: Dirty water enters the filter housing through the inlet connection.

2F: HELICAL EFFECT

As dirty water passes through the HELIX, at the base of the cartridge, its blades give a high velocity spiraling action to the water, slinging the particles (sand, sediment ...) in suspension away from the discs, against the inner walls of the housing, thus minimizing backflush frequency.

These particles can be expelled from the filter through a 3/4" outlet valve located on the outer part of the lid, either through regular or temporary openings.

3F: IN-DEPTH FILTRATION

Some of the particulate accumulate around the exterior of the disc stack. The water passes from the outside of the cartridge through the only possible way: the depth of the discs. The grooves, moulded into the surface of the discs, trap the remaining contaminants in the water.

4F: The filtered water is directed to the outlet valve. The filtered water is introduced back into the network.

All this maintains the filter clean for a longer period

In AZUD HELIX SCREEN system, the water goes through the filter via its entrance aperture and comes in contact with the deflector blades of the helix. This gives rise to the helix-centrifuge movement in the water that launches the particles towards the extremes of the filter cover therefore keeping them away from the mesh.

As a result, the solids are kept away from the filtering element therefore it remain clean longer, minimising the number of cleaning sessions.

The water penetrates into the cartridge through the stainless steel mesh holes and retains the particles.



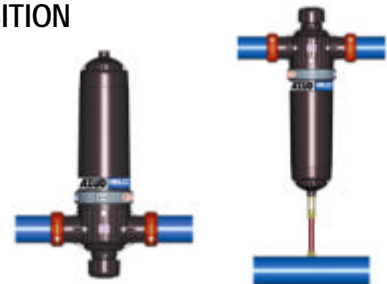
The filtration that maintains the filter clean for a longer period



HELICAL EFFECT IN ANY POSITION



The low-maintenance filtering element can be dismantled easily with no tools. Possibility of manual backwash.





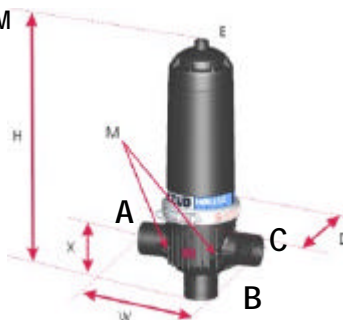
Dimensions AZUD HELIX SYSTEM Filter

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AZUD HELIX SYSTEM		CONNECTIONS FILTER				SIZE (mm)						WEIGHT (Kg)		
MODEL		A		B		C		E	M	H	W		X	D
2"	2NR	2"	BSP	2"	BSP	2"	BSP	3/4" BSP	1/4" BSP	597	309	133	245	7,6
	2NA	2"	NPT	2"	NPT	2"	NPT							
	2NV	2"	VIC	2"	VIC	2"	BSP							
	2NW	2"	VIC	2"	BSP	2"	VIC							
2" SUPER	2SR	2"	BSP	2"	BSP	2"	BSP	3/4" BSP	1/4" BSP	721	309	133	245	9
	2SA	2"	NPT	2"	NPT	2"	NPT							
	2SV	2"	VIC	2"	VIC	2"	BSP							
	2SW	2"	VIC	2"	BSP	2"	VIC							
3"	3NR	3"	BSP	3"	BSP	3"	BSP	3/4" BSP	1/4" BSP	727	336	147	245	9,2
	3NA	3"	NPT	3"	NPT	3"	NPT							
	3NV	3"	VIC	3"	VIC	3"	BSP							
	3NW	3"	VIC	3"	BSP	3"	VIC							

AZUD HELIX SYSTEM
2N, 2S, 3N



MATERIAL	2N-2S-3N	4N-4S-6N
Filtering element casing and structure	Polyamide reinforced with optical fibre	Polyamide reinforced with optical fibre. Metallic connections
Closing valve system	Stainless steel clamp Airtight seal elements of nitrile rubber	
DISCS	Polypropylene (200-130-100 micron)	
SCREEN	Stainless steel AISI 316	

AZUD HELIX SYSTEM DISCS

- 200 micron (75 mesh)
- 130 micron (120 mesh)
- 100 micron (150 mesh)
- 50 micron
- 20 micron

AZUD HELIX SYSTEM SCREEN

- 200 micron (75 mesh)
- 130 micron (120 mesh)
- 100 micron (150 mesh)

Please check other filtration grades



FITTINGS



HDPE MANIFOLDS



BALL PVC VALVE



AIR RELEASE & AIR
RELEASE & VACUUM
VALVES



WE ONLY
RECOMMEND
FITTINGS WHICH
ARE HOMOLOGATED
BY AZUD. PLEASE
CHECK OUR RANGE
OF FITTINGS AND
COMPLEMENTS

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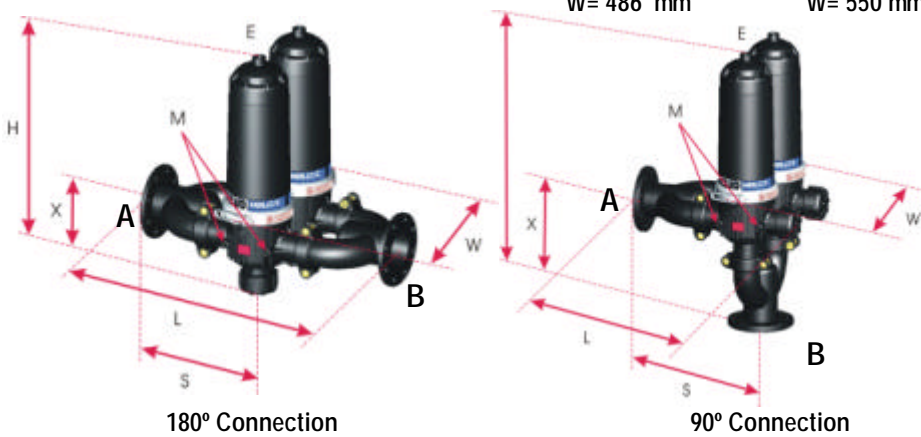
Dimensions AZUD HELIX SYSTEM Filter

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AZUD HELIX SYSTEM		CONNECTIONS FILTER				SIZE (mm)					WEIGHT (Kg)
MODEL	Metal	A	B	E	M	H	S	X	L		
4"	4NV	90°	4" VIC	4" VIC			834	400	378	583	30
	4NW	180°	4" VIC	4" VIC			617	-	162	800	
	4NT	90°	4" BRIDA	4" BRIDA	3/4" BSP	1/4" BSP	834	400	378	583	34
	4NF	180°	4" BRIDA	4" BRIDA			617	-	162	800	
4" SUPER	4SV	90°	4" VIC	4" VIC			958	400	375	583	32
	4SW	180°	4" VIC	4" VIC			742	-	162	800	
	4ST	90°	4" BRIDA	4" BRIDA	3/4" BSP	1/4" BSP	958	400	378	583	37
	4SF	180°	4" BRIDA	4" BRIDA			742	-	162	800	
6"	6NV	90°	6" VIC	6" VIC			742	471	352	800	51
	6NW	180°	6" VIC	6" VIC			952	-	162	1030	
	6NT	90°	6" BRIDA	6" BRIDA	3/4" BSP	1/4" BSP	742	471	372	800	66
	6NF	180°	6" BRIDA	6" BRIDA			952	-	162	1030	

AZUD HELIX SYSTEM 4N, 4S & 6N



FITTINGS



WE ONLY RECOMMEND FITTINGS WHICH ARE HOMOLOGATED BY AZUD. PLEASE CHECK OUR RANGE OF FITTINGS AND COMPLEMENTS

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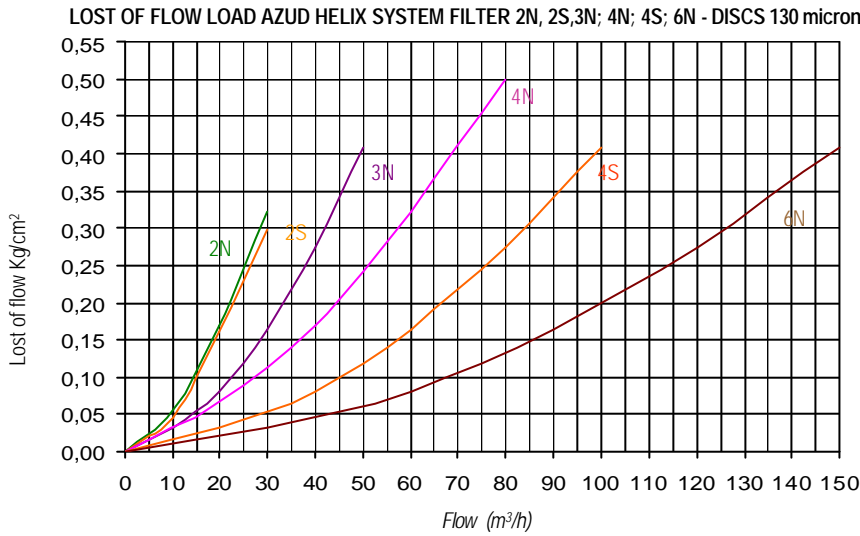
AZUD HELIX SYSTEM Technica data

AZUD HELIX SYSTEM 200 - 130 - 100 micron	Max flow	Filtration surface		Max pressure
	DISCS - SCRREN	DISCS	SCREEN	Kg/cm ²
	m ³ /h	cm ²		
2N"	30	1.198	815	10
2S"	30	1.699	1.087	
3N"	50	1.699	1.087	
4N"	70	2.396	1.630	
4S"	100	3.398	2.174	
6N"	150	5.097	3.261	

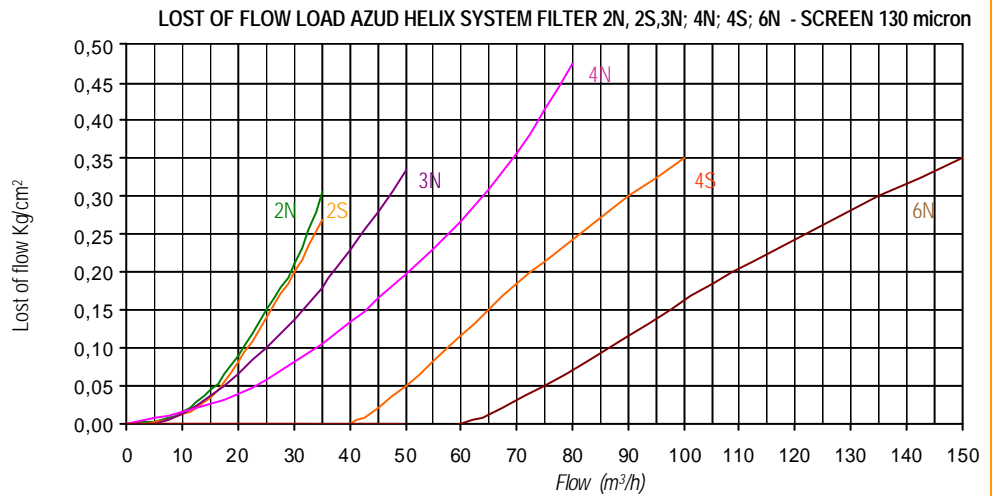
The exclusive and patented Helix system creates a helical effect that manages to maintain the particles away from discs, considerably reducing the backwash cycles.



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The flow assigned to each filter depends on the water quality



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