HELIX AUTOMATIC FT DLP

SELF-CLEANING DISC FILTERS

Working conditions							
Salinity	< 6000 mg/l						
Max. working pressure	10 bar (145 psi)						
Min. working pressure	0.8 bar (11.6 psi)						
Min. backwash pressure	1.5 bar (22 psi)						
Min. backwash flow	2.5 l/s (39 gpm) per filter 2"S y 3" 5 l/s (79 gpm) per filter 4"						
Backwash duration	15 - 25 s						
рН	4 - 11						
Water temperature	≤ 60 °C (140 °F)						

Filtration degrees (micron)















DESCRIPTION

Self-cleaning disc AZUD HELIX AUTOMATIC FT DLP filter available in Ø2", Ø3" and Ø4".

AZUD patents, developments and manufacturing quality control guarantee an excellent filtration quality by optimizing operational costs of the installation where it is integrated. Thermoplastic materials used in the manufacture offer an extraordinary resistance and lifespan of all the components of the equipment, minimizing the tasks of inspection and maintenance, which are carried out easily and with no tools.

Applications: Filtration for cooling towers, heat exchangers, tanks/lakes/fonts, water reuse system; make-up water filtration; particles recovery; disinfection systems protection, spray nozzles protection, UF membranes protection; media filter prefiltration.



MAIN FEATURES

- > RELIABLE FILTRATION, thanks to a double effect of centrifugal separation and in-depth 3D filtration with multiple particle retention points.
- > EFFICIENT SELF-CLEANING, with no interruption of clean water supply. The exclusive DLP TECHNOLOGY minimizes the backwash water volume and the energy consumption.
- MINIMUM BACKWASH FREQUENCY, thanks to the patented anti-clogging deflector AZUD HELIX and an increased filtration area per filter element.
- PLUG&PLAY AND MODULAR SOLUTION.



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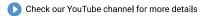
HOW DO THEY WORK

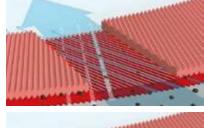
FILTRATION PHASE:

- Water flows from the inlet manifold to the inside of the filter, passing through the anticlogging deflector AZUD HELIX, which throws the heavy particles away from the disc stack, avoiding the quick clogging of the filter and minimizing the backwash frequency.
- Water flows OUT-IN through the disc stack to the outlet manifold while particles bigger than the filtration degree are trapped in the discs.

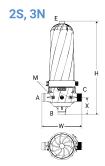
SELF-CLEANING PHASE:

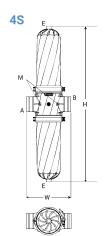
- When automatic backwash is activated, the pressurized water flows IN-OUT, decompressing the disc stack.
- High-speed flushing water flowing through the spray nozzles, creates a tangential cleaning effect the flush out the trapped particles.









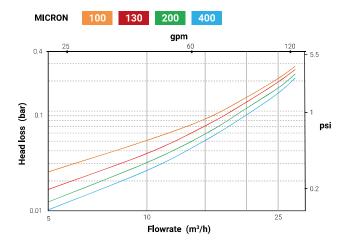


MATERIALS OF CONSTRUCTION

MG Discs Polypropylene
WS Discs High density polyethylene
Disc support Reinforced polypropylene
Base – Iid Reinforced polyamide
Spring Stainless steel 302
Clamp Stainless steel 304

Sealing o-rings Nitrile rubber/high density polyethylene

2" SUPER HEAD LOSS*



*The backwash frequency depends on the design flowrate. For hydraulic calculation, consider the set-point value for the self-cleaning cycle (usually 0.5 bar/7.25 psi).

MODELS

FILTER	DIAMETER MODEL		Q MAX. FILTRATIO		CONNECTION			DIMENSIONS			FILTER WEIGHT	
CONFIGURATION	DIAMETER MUL	MODEL	130 µm*	AREA	Α	В	С	Н	w	х	EMPTY	FULL
	2" SUPER	2SR		າ 1620 cm²	BSP	BSP	BSP	720 mm	310 mm	133 mm		
		2SA	26 m³/h		NPT	NPT	NPT				8.6 kg	18.5 kg
		2SV	114 gpm	1020 0111-	GROOVED	GROOVED	BSP	28.3 in	12.2 in	5.2 in	18.9 lb	40.7 lb
		2SW			GROOVED	BSP	GROOVED					
	3"	3NR	30 m³/h	1620 cm ²	BSP	BSP	BSP					
		3NA			NPT	NPT	NPT	735 mm	336 mm	147 mm	8.9 kg	19.4 kg
		3NV	132 gpm	1020 01112	GROOVED	GROOVED	BSP	28.9 in	13.2 in	5.8 in	19.8 lb	42.6 lb
		3NW			GROOVED	BSP	GROOVED					
	4" SUPER	4SL	52 m³/h 229 gpm	3240 cm ²	GROOVED	GROOVED	-	1200 mm 47.2 in	340 mm 13.4 in	-	16.2 kg 35.7 lb	35.1 kg 77.3 lb

34" BSP E connection • 14" BSP M connection

^{*}Maximum flowrate is limited by the size and type of the auxiliary elements (manifold, flanges and valves).