



In-line Self Cleaning Equipment with disc filtering elements and 4" valves. Max. Flow: 1152 m³/h (5070 gpm).

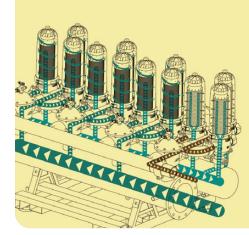


Available with High Density Polyethylene manifolds.

Modular configurations can be designed to customer preference of space availability, Automation available in 110 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,

TECHNOLOGY

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



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

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

BACKWASHING STAGE: The clean water from 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 backwash manifold.

The filtration process then restarts with the compression of the discs.

The backwash is controlled by a Control Unit.

ADVANTAGES



▼ AZUD **HeL**i%.

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.



- Modularity, Versatility, Compatibility.
 The system permits a wide range of flows and configurations using a minimal number of components.
- Facilitates easy installation and transport. Pre-assembled equipment, assembled on metal pallet with leveling. Semi-automatic equipment includes pre-installed hydraulic piping for cleaning elements.
- Low Maintenance. No tools required.

 Maximum wear resistance of high quality moving parts.
- **▼** Water and energy saving.

HELIX 17100 SERIES 400

FILTRATION Maximum flow per filter

AZUD HELIX AUTOMATIC filter filtering surface 4476 cm² / 694 in²

QUALITY WATER	micron mesh	200 75	130 120	100 150	50	20		
GOOD	m³/h	95	69	51	27			
	gpm	418	304	231	114			
AVERAGE	m³/h	95	89	60	42	21		
	gpm	418	392	264	183	93		
P00R	m³/h	77	71	54	30	15		
	gpm	340	314	238	138	69		
VERY	m³/h	47	42	36	21	9		
POOR	gpm	209	183	159	93	45		

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 SERIE.

Number of filters =

Flow to filter in the installation

Max. Flow per filter

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

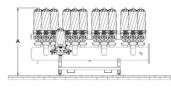
MATERIAL

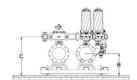
Manifolds	Inlet/outlet steel/HPDE structure manifold HDPE drainage manifold
Housing	Polyamide reinforced with fiberglass
Filtering element	PP grooved discs
Sealing element	NBR

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

AZUD HELIX AUTOMATIC 400

L Configuration

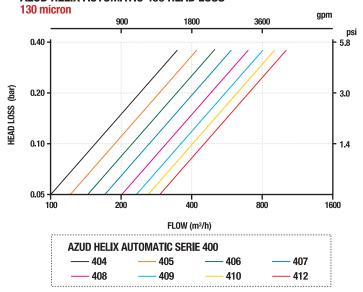




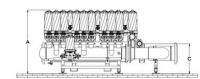
BACKFLUSHING

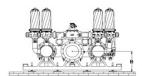
	200 - 130 micron 75 - 120 mesh	100 micron 150 mesh	50-20 micron			
Minimum backflushing	2.8 bar	3.5 bar	4 bar			
pressure per filter 4" SERIE 400	40 psi	50 psi	58 psi			
Minimum hackflushing	7,5 l/s	9,3 l/s	9.9 l/s			
backflushing flow per filter 4" SERIE 400	117 gpm	150 gpm	156 gpm			

AZUD HELIX AUTOMATIC 400 HEAD LOSS



D Configuration





		Specifications				Dimensions (mm)													
	Model	N. Filters	Manifold	Filtering Surface (cm ²) (in ²)		A mm	A C		in	D mm in		E mm in		F mm in		G H		in	
	404L/10FX	4 x 4"	10"- 250 HDPE	17904	2775	1371	54	782	31	1300	51	2362	93	2222	87	269	11	525	21
	405L/10FX	5 x 4"	10"- 250 HDPE	22380	3469	1371	54	782	31	1300	51	2922	115	2782	110	269	11	525	21
	406L/10FE	6 x 4"	10"- 273 Metal	26856	4162	1382	54	793	31	1300	51	3453	136	3348	132	269	11	525	21
등	407L/10FE	7 x 4"	10"- 273 Metal	31332	4856	1382	54	793	31	1300	51	4013	158	3908	154	269	11	525	21
Irati	408L/12FE	8 x 4"	12"- 323,9 Metal	35808	5550	1408	55	819	32	1350	53	4584	180	4468	176	269	11	525	21
Configuration	409L/12FE	9 x 4"	12"- 323,9 Metal	40284	6244	1408	55	819	32	1350	53	5144	203	5028	198	269	11	525	21
	410L/12FE	10 x 4"	12"- 323,9 Metal	44760	6938	1408	55	819	32	1350	53	5704	225	5588	220	269	11	525	21
	411L/12FE	11 x 4"	12"- 323,9 Metal	49236	7631	1408	55	819	32	1350	53	6320	249	6204	244	269	11	525	21
	412L/12FE	12 x 4"	12"- 323,9 Metal	53712	8325	1408	55	819	32	1350	53	6880	271	6764	266	269	11	525	21
	406D/12FX	6 x 4"	12"- 323,9 HDPE	26856	4162	1400	55	661	26	2000	79	2804	110	2762	109	577	23	772	30
무	407D/12FX	7 x 4"	12"- 323,9 HDPE	31332	4856	1400	55	661	26	2000	79	3364	132	3322	131	577	23	772	30
흃	408D/12FX	8 x 4"	12"- 323,9 HDPE	35808	5550	1400	55	661	26	2000	79	3364	132	3322	131	577	23	772	30
١١٥	409D/14FX	9 x 4"	12"- 323,9 HDPE	40284	6244	1420	56	681	27	2000	79	3938	155	3910	154	577	23	786	31
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Ĭ	B=450 mm (18 in)								,		·		/					