



PF-70 DISC FILTER PACKAGE

Series 200 by Luxud/AZUD

In-line Self Cleaning Equipment with disc filtering elements and 2" (Series 200) valves.

High density polyethylene manifolds. Easy to install. Maximum resistance and durability.

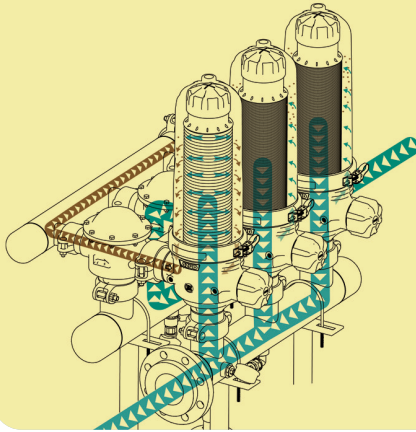
Max. Flow: 256 m³/h (1125 gpm)



Modular configurations can be designed to customer preference or space availability. Automation available in 120 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 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.

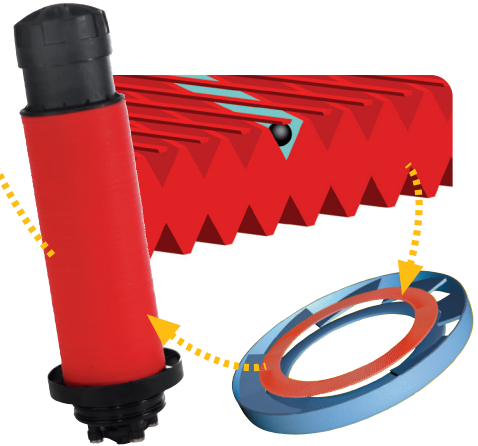
BACKFLUSHING STAGE: The clean water from the auxiliary filter is introduced from the reverse direction through the filtering element. This decompresses the stack discs, allowing the discs to separate and backwash efficiently.

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

The backwash is controlled by two valves and a controller, which integrate the filtration equipment.

ADVANTAGES

- ✓ **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.** 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.
- ✓ **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.
- ✓ **Water and energy saving.**

PF70/08_13



PUROFLUX

C O R P O R A T I O N

FILTRATION AND CONTROL SYSTEMS

FILTRATION Maximum flow per filter
AZUD HELIX AUTOMATIC filter filtering surface 1492 cm² / 231 in²

QUALITY OF WATER	micron mesh	SERIE 200			
		130 120	100 150	50	20
GOOD	m ³ /h gpm	24 105	17 77	9 38	
AVERAGE	m ³ /h gpm	20 88	14 61	7 31	
POOR	m ³ /h gpm	18 79	10 46	5 23	
VERY POOR	m ³ /h gpm	12 53	7 31	3 15	

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 SERIES.

$$\text{Number of filters} = \frac{\text{Flow to filter in the installation}}{\text{Max. Flow per filter}}$$

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

MATERIAL

Manifolds	Hight Density Polyethylene
Housing	Polyamide reinforced with fiberglass
Filtering element	PP grooved discs
Sealing element	NBR

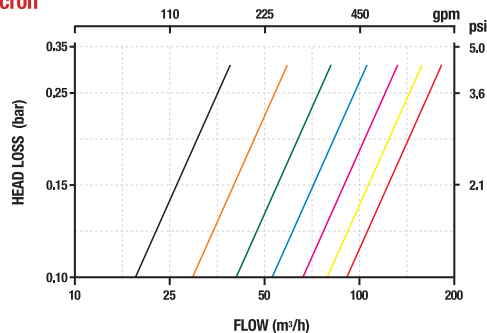
pH>4 • Maximum pressure 10 bar / 145 psi • Maximum temperature 60°C / 140 F

BACKFLUSHING

	130 micron 120 mesh	100 micron 150 mesh	50-20 micron
Minimum backflushing pressure per filter	2.8 bar 40 psi	3.5 bar 50 psi	4 bar 58 psi
Minimum backflushing flow per filter	2.5 l/s 39 gpm	3.1 l/s 50 gpm	3.3 l/s 52 gpm

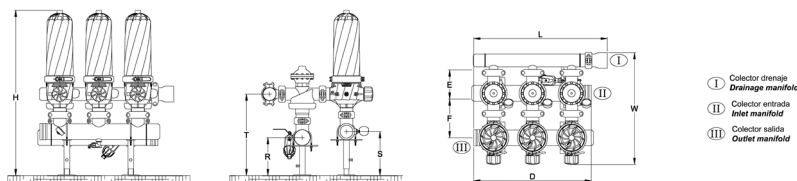
AZUD HELIX AUTOMATIC HEAD LOSS

130 micron



SERIES 200 — 202 — 203 — 204 — 205 — 206 — 207 — 208

AZUD HELIX AUTOMATIC



Model	Specifications			Dimensions (mm)																	
	N. Filters	Manifold	Filtering Surface (cm ²) (in ²)	F	E	D	L	W	R	T	S	H	F	E	D	L	W	R	T	S	H
202/3VX	2"x 2	3"-90	2984 463	272 11	204 8	575 23	698 27	700 28	491 19	257 10	272 11	1080 43	272 11	204 8	575 23	698 27	700 28	491 19	257 10	272 11	1080 43
203/4VX	2"x 3	4"-110	4476 694	272 11	204 8	830 33	945 37	700 28	511 20	267 11	281 11	1100 43	272 11	204 8	830 33	945 37	700 28	511 20	267 11	281 11	1100 43
204/6VX	2"x 4	6"-160	5968 925	272 11	204 8	1065 42	1220 48	700 28	561 22	292 12	307 12	1150 45	272 11	204 8	1065 42	1220 48	700 28	561 22	292 12	307 12	1150 45
205/6VX	2"x 5	6"-160	7460 1156	272 11	204 8	1420 56	1542 61	700 28	561 22	292 12	307 12	1150 45	272 11	204 8	1420 56	1542 61	700 28	561 22	292 12	307 12	1150 45
206/6VX	2"x 6	6"-160	8952 1388	272 11	204 8	1695 67	1817 72	700 28	561 22	292 12	307 12	1150 45	272 11	204 8	1695 67	1817 72	700 28	561 22	292 12	307 12	1150 45
207/6VX	2"x 7	6"-160	10444 1619	272 11	204 8	1970 78	2104 83	700 28	561 22	292 12	307 12	1150 45	272 11	204 8	1970 78	2104 83	700 28	561 22	292 12	307 12	1150 45
208/8VX	2"x 8	8"-200	11936 1850	272 11	204 8	2245 88	2411 95	700 28	601 24	312 12	327 13	1190 47	272 11	204 8	2245 88	2411 95	700 28	601 24	312 12	327 13	1190 47

Dimensions of the models with grooved connection.
 Available in flange connection.
 Drainage Manifold includes PVC connection.
 Other configurations in www.azud.com

