

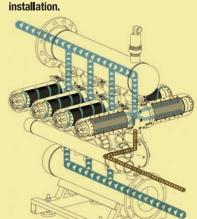
# SERIE 4DCL



Modular configuration according to preferences or space availability. Automation in 12 V or 220 V. There are specific solutions to low and high pressure installations, with sea water and/or saline water. Possibility of backflushing with compressed air.

# **TECHNOLOGY**

AZUD HELIX AUTOMATIC backflushes in only one station while the rest of the equipment is in filtration stage, supplying the



**FILTRATION STAGE:** The helix generates a centrifuge helical effect, which moves away from the discs the particles in the water.

Through the discs is made the in-depth filtration process.

**BACKFLUSHING STAGE:** The filtered water is introduced in the opposite direction through the filtering element structures, decompressing the stacks of discs and making the backflushing.

The solids expelled from the discs are evacuated by the drainage manifold.

The filtration stage starts again with the compression of the discs.

# **ADVANTAGES**



AZUD HELI'S System.

Optimization of the performance and minimum frequency and intensity of maintenance labours.

Self-cleaning filtering element.

Maximum saving of water and efficiency in backflushing. Wide filtering area. AZUD filtration grades go from 5 to 500 micron.



- Modularity. Versatility, compatibility. The system permits a wide range of possibilities with a minimal number of components.
- Maximum facility of transport and installation. Already assembled equipments.
- **▼** Manufactured in plastic materials.
- Low Maintenance. Without tooling. Maximum resistance, with movable parts not susceptible to wearing due to a continuous operation.
- **▼** Water and energy saving.

## SERIE4DCL

FILTRATION Maximum flow per filter AZUD HELIX AUTOMATIC filter filtering surface 2.984 cm<sup>2</sup>

QUALITY OF WATER	micron mesh	200 75	130 120	100 150	50	20
GOOD	m³/h	72	64	48	34	18
	gpm	314	282	211	154	76
AVERAGE	m³/h	63	59	40	28	14
	gpm	279	261	176	122	62
P00R	m³/h	51	47	36	20	10
	gpm	226	209	158	92	46
VERY	m³/h	32	28	24	14	6
POOR	gpm	139	122	106	62	30

#### **HOW TO CHOOSE AZUD HELIX AUTOMATIC EQUIPMENTS**

- 1.Determine the required filtration grade.
- 2. Establish the quality of the water.
- 3. Calculate according to the following equation, the numbers of filters required.

Flow to filter in the installation Number of filters = Max. Flow per filter

#### **MATERIAL**

Manifolds	High Density Polyethylene		
Housing	Polyamide reinforced with fiberglass		
Filtering element	PP grooved discs		
Sealing element	NBR		
Backflushing valve	Plastic		

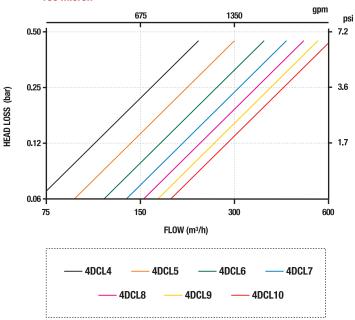
pH>4 • Maximum pressure 10 bar / 145 psi • Maximum temperature 60°C / 140 F

#### **BACKFLUSHING**

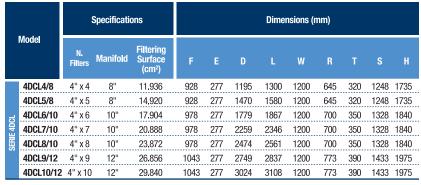
	200 - 130 micron 75-120 mesh	100 micron 150 mesh	50-20 micron	
Minimum backflushing	2.8 bar	3,5 bar	4 bar	
pressure per filter 4"	40 psi	50 psi	58 psi	
Minimum backflushing flow per filter 4"	5 l/s	6.2 l/s	6.6 l/s	
	78 gpm	100 gpm	104 gpm	

#### **AZUD HELIX AUTOMATIC HEAD LOSS**

130 micron



### **AZUD HELIX AUTOMATIC SERIE 4DCL**



Drainage Manifold included - Grooved connection. Dimensions of the models with flange connection. Other configurations in www.azud.com

