AZUD | HELIX automatic

4DCL

Ø4" Self-cleaning disc filtration equipment with Ø3" 3-way backwash valves. for the removal of inorganic and organic suspended particles, with non- stop filtered water supply thanks to sequential backwash of each filter element.

Ideal for filtration of poor quality water and/or with organic fertilizers.

Technical characteristics

- **Filtration technology:** Discs
- **Cleaning system:** Self-cleaning
- **Number of filters:** 3- 12 filters x Ø4"
- **Material:** Polymeric
- **Nominal pressure:** PN10
- **Filtration degrees:** 100 - 400 micron

Unique selling points

Protection

High filtration capacity, ideal for water with high particle loads

Guaranteed water quality thanks to AZUD 3D discs, with MG or WS technology, with both surface and in-depth particles filtration

Savings

Lower water consumption thanks to the patented AZUD HELIX device, which drastically reduces the backwash frequency

Minimum energy consumption thanks to AZUD DLP TECHNOLOGY, ensuring very high self-cleaning efficiency with low operation pressure

Reliability

High quality polymers providing robustness and high corrosion resistance
Minimum and tools-free maintenance, reducing time and labor required

Reliable and long-lasting operation, backed by 5 years warranty

Product range

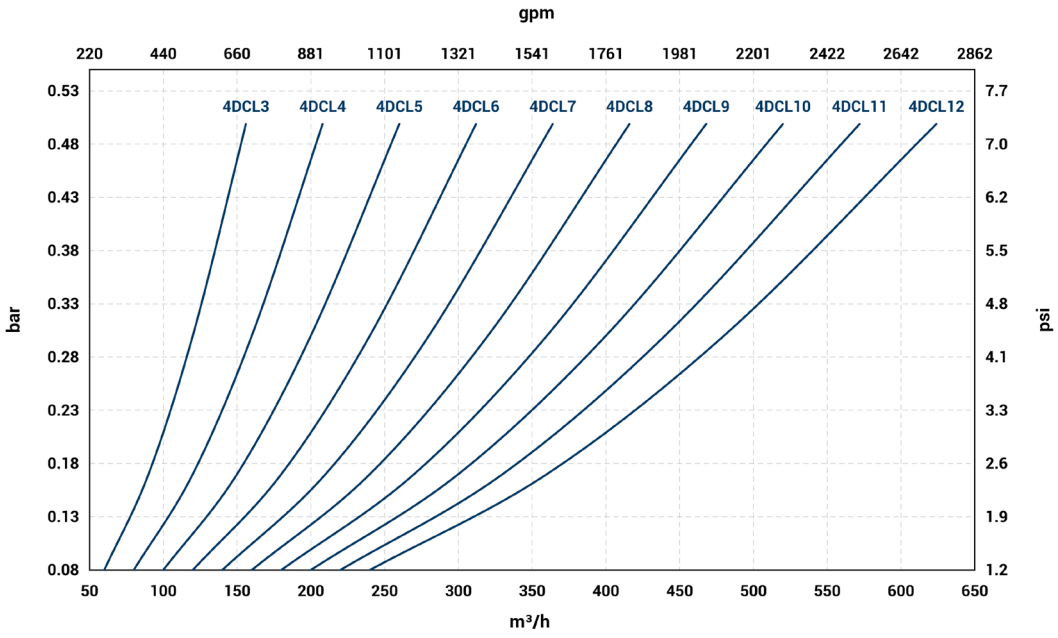
Model	No. of filters	Filtration area	Max. flow rate (130 µ)	Manifold diameter I/O
		cm²	m³/h	
4DCL3	3	9.720	156	6"
4DCL4	4	12.960	208	8"
4DCL5	5	16.200	240	8"
4DCL6	6	19.440	312	10"
4DCL7	7	22.680	364	10"
4DCL8	8	25.920	380	10"
4DCL9	9	29.160	468	12"
4DCL10	10	32.400	520	12"
4DCL11	11	35.640	572	12"
4DCL12	12	38.880	624	12"

Available connections: DIN 2576 flange and ANSI B16.5 CLASS 150 flange.
Drain manifold: Ø4" Grooved/PVC
PN10
*AZUD FBC Controller unit not included with equipment.

Working condition

Type of water	TDS (mg/l)	Max. Working Pressure	Min. working pressure	Min. Backflushing pressure (bar)	Min. cleaning flow rate	pH	Water temperature
		bar	bar	bar	l/s		°C
Low salinity water	<6.000	10	0,8	1,5	5	4 - 11	60

Head Loss Graph (Flow rate vs Pressure)



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

Head Loss: 130 micron discs

Filtration degrees

Materials of constructions - Filter

Type of water	Low salinity water
Base-lid	Glass fiber reinforced polyamide
Clamp	Stainless steel 304
MG/WS Discs	Polypropylene / High density polyethylene
Support structure	Glass fiber reinforced polypropylene
Spring	Stainless steel 302

Materials of constructions - Valve

Type of water	Low salinity water
Body	Glass fiber reinforced polyamide
Shaft - Seat - Spring	Stainless steel 303-304-302

Materials of constructions - Manifolds

Type of water	Low salinity water
Manifold body	High density polyethylene PE-100
Manifold flange connection	Aluminum
Grooved connection	High density polyethylene PE-100

Related products

AZUD HELIX AUTOMATIC 300

AZUD HELIX AUTOMATIC FT200 AA

AZUD FBC