

AZUD | HELIX automatic

FT4DCL

Ø4" self-cleaning disc filtration system, 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.

Technical characteristics

- **Filtration technology:** Discs
- **Cleaning system:** Self-cleaning
- **Number of filters:** 1 - 12 filters x Ø2"
- **Material:** Polymeric
- **Nominal pressure:** PN10
- **Filtration degrees:** 5 - 400 micron
- **Configuration:** Horizontal and vertical



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



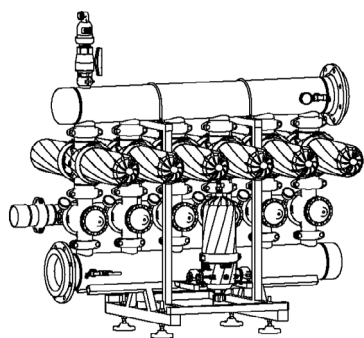
Reliability

High quality polymers providing robustness and high corrosion resistance

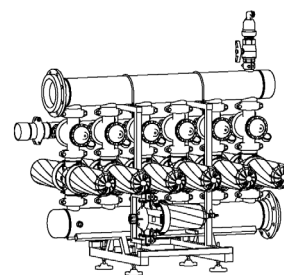
Minimum and tools-free maintenance, reducing time and labor required

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

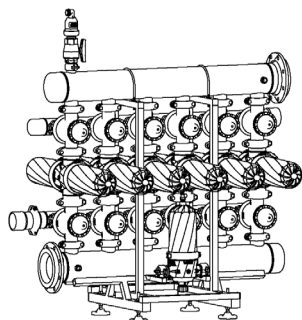
Configurations



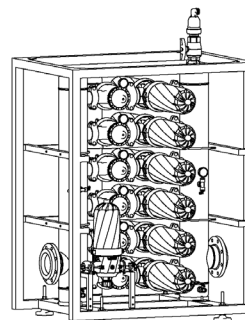
Horizontal



Inverted horizontal (INV)



Horizontal LP



Vertical (V) - Available model: from 5 to 8 filters

Product range

Model	No. of filters	Filtration area	Max. flow rate (130 μ)	Manifold diameter I/O
		cm ²	m ³ /h	
FT4DCL3	3	9.720	156	6"
FT4DCL4	4	12.960	208	6"
	4	12.960	208	8"
FT4DCL5	5	16.200	240	6"
	5	16.200	240	8"
FT4DCL6	6	19.440	312	8"
	6	19.440	312	10"
FT4DCL7	7	22.680	364	8"
	7	22.680	364	10"
FT4DCL8	8	25.920	380	8"
	8	25.920	380	10"
FT4DCL9	9	29.160	468	10"
	9	29.160	468	12"
FT4DCL10	10	32.400	520	10"
	10	32.400	520	12"
FT4DCL11	11	35.640	572	10"
	11	35.640	572	12"
FT4DCL12	12	38.880	624	10"
	12	38.880	624	12"

Available connections: DIN 2576 flange, ANSI B16.5 CLASS 150 flange

Drain manifold: Ø4" Grooved/PVC

Pressure manifold (LP model): Ø4" Grooved/PVC

PN10

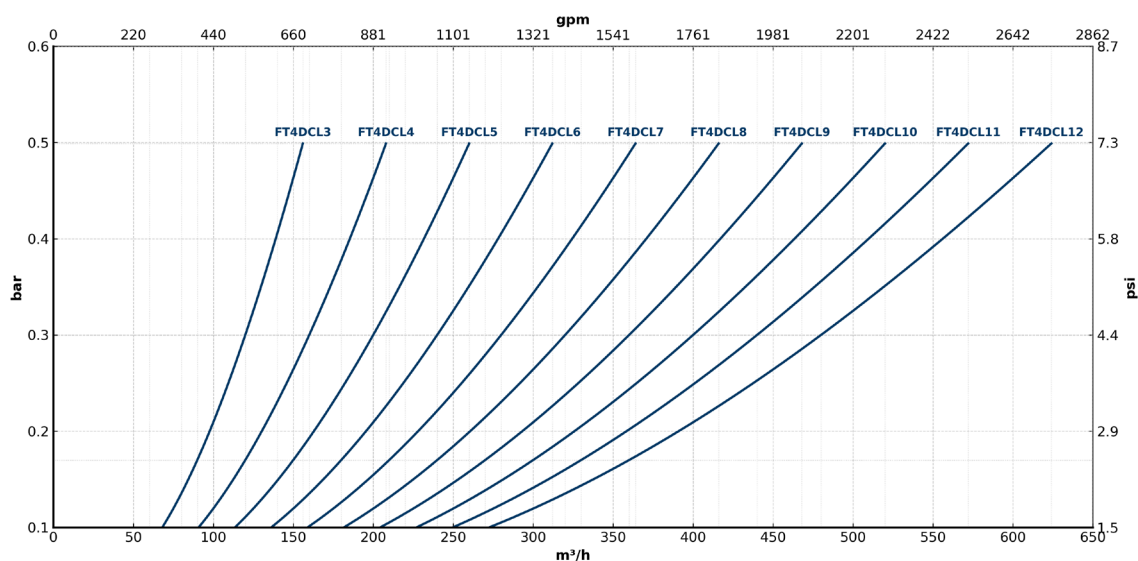
Filtration degrees



Working condition

Type of water	Range	TDS (mg/l)	Max. Working Pressure	Min. working pressure	Min. Backflushing pressure	Min. Cleaning flow rate	pH	Water temperature
			bar	bar	bar	l/s		°C
Low salinity water	FT4DCL	<6.000	10	0,8	1,5	5	4 - 11	60
High salinity water	FT4DCL SW	6.000 - 55.000	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

Materials of constructions - Filter

Type of water	Low salinity water	High salinity water
Base-lid	Glass fiber reinforced polyamide	Glass fiber reinforced polyamide
Clamp	Stainless steel 316L	Stainless steel 316L
MG/WS Discs	Polypropylene / High density polyethylene	Polypropylene / High density polyethylene
Support structure	Glass fiber reinforced polypropylene	Glass fiber reinforced polypropylene
Spring	Stainless steel 302	Hastelloy

Materials of constructions - Valve

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

Materials of constructions - Manifolds

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

Related products



AZUD HELIX AUTOMATIC
FT4DC



AZUD HELIX AUTOMATIC
FT200



AZUD FBC