AZUD | HELIX automatic

FT200 AA

Air-assisted filtration equipment with self-cleaning disc filters Ø2", with 3-way backwash valves Ø2" for the removal of inorganic and organic particles in suspension, with uninterrupted supply of filtered water.

Exclusive air-assisted backwash system for applications with high loads of organic particles and sticky particles, which guarantees a more effective automatic cleaning of the filter medium with lower water consumption. Ideal for filtration of poor quality water and/or water containing organic fertilisers.

Technical characteristics

- **Filtration technology:** Discs
- **Cleaning system:** Air-assisted self-cleaning
- **Number of filters:** 1 - 24 filters x Ø2"
- **Material:** Polymeric
- **Nominal pressure:** PN10
- **Filtration degrees:** 5 - 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

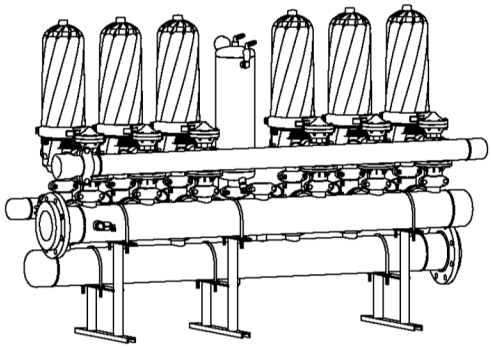
Minimum energy consumption thanks to AZUD DLP TECHNOLOGY, ensuring very high self-cleaning efficiency with low operation pressure

Reliability

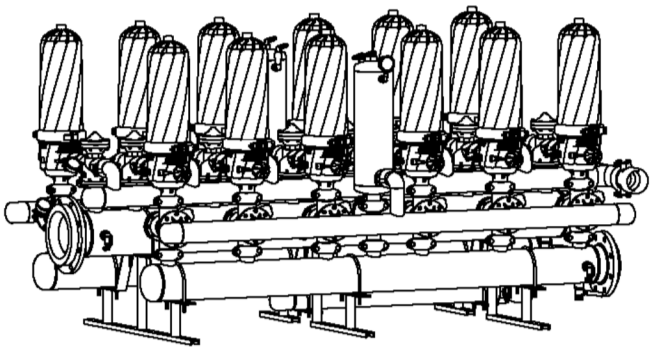
High quality polymers providing robustness and high corrosion resistance
Minimum and tools-free maintenance, reducing time and labor required

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

Configurations



FT200 AA (In line)



FT200D AA (In parallel)

Product range

Model	No. of filters	Filtration area	Max. flow rate (130 µ)	Manifold diameter I/O
		cm²	m³/h	
FT201 AA	1	1.620	21	2"
FT202 AA	2	3.240	42	3"
FT203 AA	3	4.860	63	3"
	3	4.860	63	4"
FT204 AA	4	6.480	84	4"
	4	6.480	84	6"
FT205 AA	5	8.100	105	4"
	5	8.100	105	6"
FT206 AA	6	9.720	126	6"
FT207 AA	7	11.340	147	6"
FT208 AA	8	12.960	168	6"
	8	12.960	168	8"
FT209 AA	9	14.580	189	6"
	9	14.580	189	8"
FT210 AA	10	16.200	210	6"
	10	16.200	210	8"
FT210D AA	10	16.200	50	6"/4"
	10	16.200	196	8"/6"
	10	16.200	220	10"/8"
FT212D AA	12	19.440	60	6"/4"
	12	19.440	196	8"/6"
	12	19.440	264	10"/8"
FT214D AA	14	22.680	70	6"/4"
	14	22.680	196	8"/6"
	14	22.680	308	12"/8"
FT216D AA	16	25.920	80	6"/4"
	16	25.920	296	10"/8"
	16	25.920	352	12"/8"
FT218D AA	18	29.160	90	6"/4"
	18	29.160	296	10"/8"
	18	29.160	396	12"/10"
FT220D AA	20	32.400	100	6"/4"
	20	32.400	296	10"/8"
	20	32.400	440	12"/10"
FT224D AA	24	38.880	120	6"/4"
	24	38.880	296	10"/8"
	24	38.880	470	12"/10"

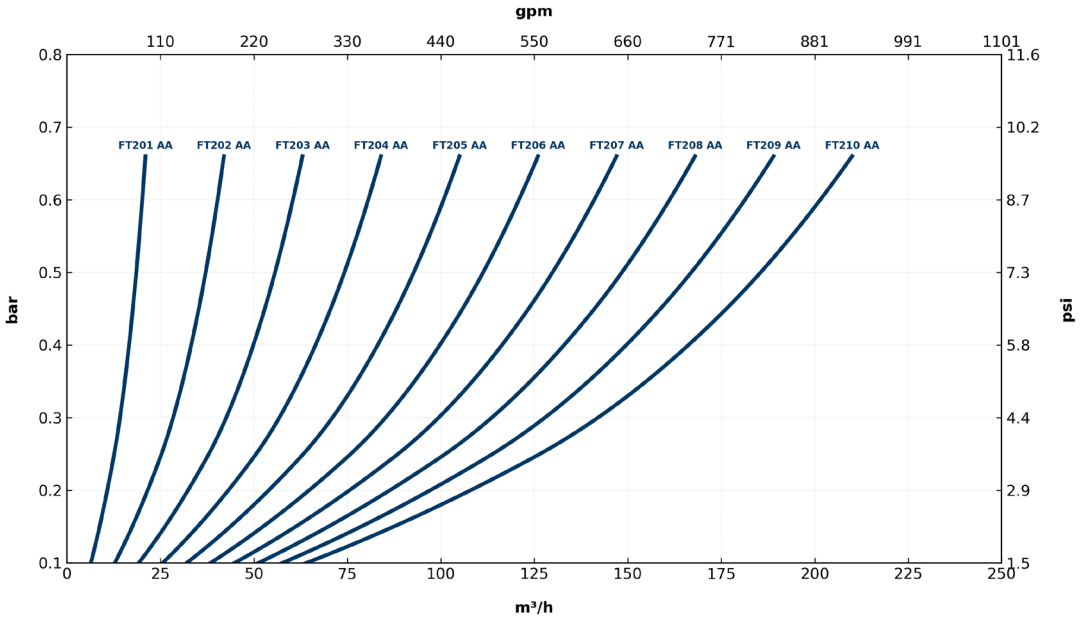
Available connections: DIN 2576 flange, ANSI B16.5 CLASS 150 flange and grooved
Drain manifold: Ø3" Grooved/PVC
PN10
*AZUD FBC Controller unit not included with equipment.

Filtration degrees

Working condition

Type of water	Range	TDS (mg/l)	Max. Working Pressure	Min. working pressure	Min. air pressure	Max. air pressure	Air flow rate per time	Min. cleaning volume	pH	Water temperature
			bar	bar	bar	bar	l/s	l		°C
Low salinity water	FT200 AA	<6.000	10	0,8	4,5	6	18x10 s	10	4 - 11	60
	FT200D AA	<6.000	10	0,8	4,5	6	36x10 s	20	4 - 11	60
High salinity water	FT200 SW AA	6.000 - 55.000	10	0,8	4,5	6	18x10 s	10	4 - 11	60
	FT200D SW AA	6.000 - 55.000	10	0,8	4,5	6	36x10 s	20	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
AA tank	Stainless steel 304	High density polyethylene

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	Polyprolylene coated steel
Grooved connection	High density polyethylene PE-100	High density polyethylene PE-100

Related products

AZUD HELIX AUTOMATIC FT4DCL

AZUD HELIX AUTOMATIC FT200

AZUD FBC