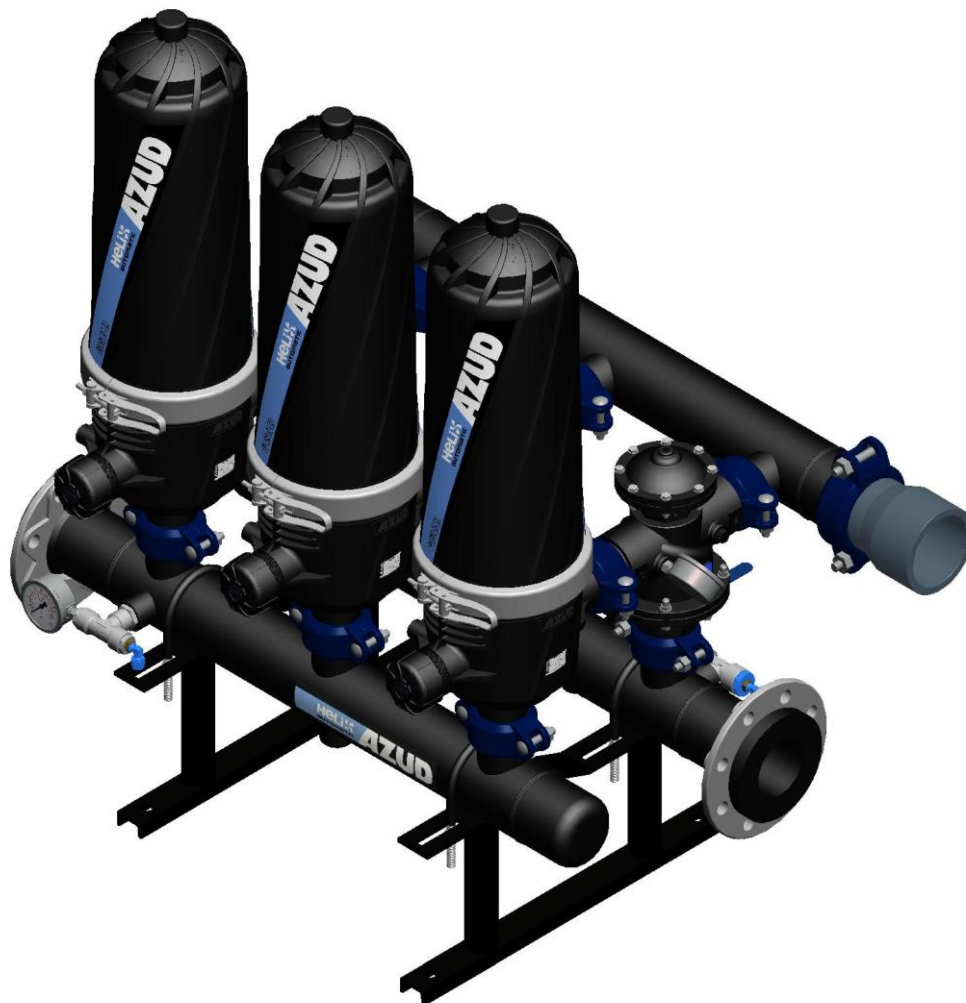


Filtration Equipment offered.

The filtration equipment is included in **AZUD HELIX AUTOMATIC SERIE 200** serie. It integrates 2" SUPER self-cleaning disc filters with the Helix system. The filtering elements is easily removable without tools. The housing is made in reinforced technical plastic; it has grooved connections and one three-ways hydraulic valve per filter. The equipments are supplied completely assembled through the necessary grooved couplings to the corresponding inlet, outlet and drainage manifolds; all of them manufactured in high density polyethylene (HDPE).



AZUD HELIX AUTOMATIC SERIE 200

Detailed description of the Filtration Equipment

The offered Filtration equipment is composed by different elements:

▪ AZUD HELIX AUTOMATIC 2S Filter characterized by:

- Housing with 2" grooved connection, manufactured in reinforced technical plastic (polyamide 6 fibreglass reinforced).
- Lock system, composed by the clamp made in stainless steel and NBR sealing gasket, placed in the housing of the filter.
- Filtering element, completely independent, easily removable, without tools, to eventual maintenance labours.
- Each filtering element is made by a stack of discs made in technical plastic, with a wide filtration surface, guaranteeing the in-depth filtration. The filtering surface is of 1.492 cm²/ 231 in².
- AZUD HELIX. In the base of each stack of discs there is a device which generates a centrifugal helical movement that moves away the particles from the discs, delaying the clogging of the filters. The HELIX system patented by AZUD, optimises the performance and minimizes the frequency and intensity of the maintenance labour of the system.

▪ Manifolds of the filtration equipment.

- Feeding of water manifold (inlet manifold), of diameter according to drawing. Manufactured in High Density Polyethylene (HDPE) PE-100 UNE 53966. Flange connection elements according to DIN 2576 o grooved depending on the model. It incorporates grooved derivations, required to the connection of the inlet to the three-ways valves.
- Outlet manifold of diameter according to annex drawing, manufactured in High Density Polyethylene (HDPE) PE-100 UNE 53966. Flange connection elements according to DIN 2576 o grooved depending on the model. It incorporates grooved derivations, required to the connection of AZUD HELIX AUTOMATIC outlet.
- Drainage manifold of diameter according to annex drawing, manufactured in high density polyethylene (HDPE) PE-100 UNE 53966. Grooved connection elements and / or to glue.

▪ Supports of the equipment characterized by:

- The support structure is self-portable that permits a light adjustment of levelling and stabilization of the equipment to the ground.

▪ Three-ways hydraulic valve, characterized by:

- Two three-ways hydraulic valve per filter in grooved connection, manufactured in reinforced technical plastic, with internal components in stainless steel. Diaphragm in reinforced nylon (NR-AL52) and NBR gaskets.

▪ Auxiliary filter AZUD MODULAR 100 3/4" 130 micron

- 3/4" BSP manual filter. Housing manufactured in technical plastic. Stainless steel screen filtering element of 130 micron.

▪ Manometer, characterized by:

- ¼" BSP glycerin manometer male thread. Bar/psi double scale (0-10 bar / 0-145 psi). The equipment includes 1 manometer per filter, plus one more installed in the outlet manifold.

▪ Grooved couplings.

- Grooved couplings which allow the connection of the filters to the manifold/valves, etc., manufactured in steel covered in epoxy - polyester.

The equipment is supplied completely ready to its later automation.

AZUD equipments are manufactured fulfilling the requirements of our Quality and Environmental System (**SICMA**), focused to keep the highest quality level according to **ISO 9001** Standard specifications and keeping its Environmental compromise according to **ISO 14001** standard.

SICMA (Quality & Environmental System is audited and certified by the Spanish Association for Standardization & Certification (**AENOR**)).

General Technical Data

Max. Working pressure.	10 bar / 145 psi
Min. working pressure.	1.5 bar / 21 psi
Max. Temperature	60° / 140°F
pH range	4-11

BACKFLUSHING PROCESS	MG DISC			WS DISC
	400-200-130 micron	100 micron	50-20 micron	130-100-50-20-10-5 micron
Min. Backflushing pressure	2.8 bar 40 psi	3.5 bar 50 psi	4 bar 58 psi	2.8 bar 40 psi
Backflushing flow rate per filter	2.5 l/s 40 gpm	3.1 l/s 50 gpm	3.3 l/s 55 gpm	2.5 l/s 40 gpm

	Model	Max. Flow 130 micron m ³ /h gpm	N. of filters	Diameter inlet/outlet manifold	Connection	Filtering surface cm ² in ²
SERIE 200	202/3FX 202/3VX	48 215	2	3" - 90 mm	Flange Grooved	2.984 463
	203/3FX 203/3VX	72	3	3" - 90 mm	Flange Grooved	4.476
	203/4FX 203/4VX	320	3	4" - 110 mm	Flange Grooved	694
	204/4FX 204/4VX	96	4	4" - 110 mm	Flange Grooved	5.968
	204/6FX 204/6VX	425	4	6" - 160 mm	Flange Grooved	925
	205/4FX 205/4VX	120	5	4" - 110 mm	Flange Grooved	7.460
	205/6FX 205/6VX	530	5	6" - 160 mm	Flange Grooved	1.156
	206/6FX 206/6VX	144 635	6	6" - 160 mm	Flange Grooved	8.952 1.387
	207/6FX 207/6VX	168 740	7	6" - 160 mm	Flange Grooved	10.444 1.619
	208/6FX 208/6VX	192	8	6" - 160 mm	Flange Grooved	11.936
	208/8FX 208/8VX	845	8	8" - 200 mm	Flange Grooved	1.850

Drainage manifold of 3" - 90 mm grooved connection elements and / or to glue.