

Filtration equipment AZUD HELIX AUTOMATIC FT201 DLP

AZUD HELIX AUTOMATIC FT201 DLP is delivered completely assembled. It is composed by one 2" SUPER self-cleaning disc filter with the AZUD HELIX SYSTEM. The filtering element is easily removable without tools. The housing is made of reinforced technical plastic; it has grooved connections and two three-way hydraulic valves.

AZUD HELIX AUTOMATIC FT201 DLP equipment are delivered completely assembled with grooved connections, including the necessary fittings to the installation of the adjustable supports.

AZUD HELIX AUTOMATIC DLP enables the reduction of the energetic use of the filtration installations, increasing their performance, and demanding the minimal pressure consumptions and flow rate on each backflushing cycle, keeping the maximum efficiency in a wide range of filtration degrees.

Furthermore, with the patented AZUD HELIX SYSTEM, the frequency and intensity of the maintenance labours of the system are minimized. The energetic cost is dramatically reduced per filtered m³ in the installation, minimizing the environmental impact.



Represented equipment: **AZUD HELIX AUTOMATIC 201/2VX DLP**

Detailed description of the filtration equipment

The offered filtration equipment is made up by:

• AZUD HELIX AUTOMATIC 2S DLP Filter characterized by:

- Housing with 2" grooved connection, made in reinforced technical plastic (polyamide 6 fibreglass reinforced).
- Lock system, composed by a clamp made of stainless steel and NBR sealing gasket, placed in the housing of the filter.
- Filtration element, completely independent, easily removable, without tools, to eventual maintenance labours. It requires the minimal energetic consumption on each backflushing cycle.
- Each filtration element is made up by a stack of discs made of technical plastic, with a wide filtration surface, guaranteeing the in-depth filtration. The filtering surface is 1620 cm²/ 251 in².
- AZUD HELIX SYSTEM. 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, slowing the clogging of the filters. The AZUD HELIX SYSTEM patented by AZUD, optimises the performance and minimizes the frequency and intensity of the maintenance labours of the system.

• Connections to the installation of the filtration equipment.

- Feeding water connection diameter of 2" made of PVC. Outlet connection and drainage are made of stainless steel, 2" BSP diameter (male thread).

• Supports characterized by:

- 2 metallic supports self levelled in height that enables the levelling and stabilization of the equipment to the ground.

• Two 3-way hydraulic valves per filter, characterized by:

- Two 3-way hydraulic valves of 2" grooved connections to AZUD HELIX AUTOMATIC filter and 2" BSP thread (drainage and output connections). Made in reinforced technical plastic, with internal components in stainless steel. Diaphragm in reinforced nylon (NR-AL52) and NBR gaskets.

• Auxiliary filter in "T":

- Removable component made in technical plastic with 2" grooved connections. The screen filter works only during the backflushing stage of the filtration equipment.

• Manometer, characterized by:

- ¼" BSP glycerin manometer male thread. Bar/psi double scale (0-10 bar / 0-145 psi).

• Grooved couplings:

- Grooved couplings that allow the connection of the filters to the manifolds / valves, etc., made in stainless steel covered in a epoxy –polyester layer.

The equipment is supplied completely ready to its later automation.

AZUD equipment are made 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

WORKING CONDITIONS	
Max. Working pressure	10 bar / 145 psi
Max. recommended pressure ^o	8 bar / 116 psi
Min. Working pressure	0.8 bar / 11.6 psi
Max. Temperature	60 °C / 140 °F
pH range	4 – 11

BACKFLUSHING PROCESS		
Minimum backflushing pressure	MG*	1.5 bar 22 psi
	WS*	1.5 bar 22 psi
Backflushing flow rate per filter	MG	2.5 l/s 40 gpm
	WS	2.5 l/s 40 gpm

*Filtration degree MG: 400- 200- 130- 100 micron. Filtration degree WS: 130- 100- 50- 20- 10- 5 micron.

AZUD HELIX AUTOMATIC SERIE FT201 DLP Filtration degrees 5 – 10 – 20 – 50 – 100 – 130 – 200 – 400 micron					
Model*	Manifold	Type of connection/ material	Ø manifold	Filtering surface	Control Unit AZUD FBC*
FT201/2VX DLP	Inlet	Grooved / PVC	2" - 63 mm	1620 cm ² 251 in ²	103/1
	Outlet	BSP / Metal	2" - 60 mm		
	Drainage	BSP / Metal	2" - 60 mm		
FT201/2NX DLP	Inlet	Grooved / PVC	2" - 63 mm	1620 cm ² 251 in ²	103/1
	Outlet	NPT / Metal	2" - 60 mm		
	Drainage	NPT / Metal	2" - 60 mm		

*Control Unit is not included with the filtration equipment.

FLOW RATE OF THE EQUIPMENT AZUD HELIX AUTOMATIC FT201 DLP [m ³ /h]								
MODEL	Filtration degree of the equipment MICRON*							
	5	10	20	50	100	130	200	400
FT201/2 DLP	5	6	8	14	24	24	24	24

*Max. Flow rate varies with the filtration degree and water quality. Consult AZUD nominal flow rates for each case.