AZUD HELIX Water saving leader

QP QD GNZ HELIS AZ



DISC FILTRATION



Reliable

Efficient removal of inorganic and organic suspended particles bigger than **5-400 μm**, with a **non-stop clean water supply** based on the sequential backwash of each filter element.



Robust

Plug&play compact and modular solution made of highquality technical thermoplastics, provides robustness, durability and high corrosion resistance.



Double filtration effect ensured by the centrifugal separator AZUD HELIX and the AZUD 3D DISCS with both surface and indepth particles filtration.

the automated self-cleaning

and autonomous operation.

sequence to guarantee a safe





Sustainable

pressure.

Minimum water and energy consumption thanks to the AZUD

DLP technology that guarantees a

the filter media with low operation

very high self-cleaning efficiency of

Supporting structure monoblock MBK with 4 columns housing the cleaning nozzles.

Patented centrifugal anti-settling baffle **AZUD HELIX** .

Plastic double check valve with double flap controls the flow of filtered water and cleaning water. Efficient design with minimum head loss.

Backwash valve allows the autonomous and independent cleaning of each filter and guarantees a continuous supply of filtered water.

Inlet, outlet and drainage manifolds, made of HDPE, with flanged (DIN/ ANSI) or grooved connections, offer robustness, durability and ample resistance to chemicals and salt corrosion.

<image>

Spring loaded hydraulic piston,

which compresses the disc column during the filtration phase, and allows it to decompress during the backwash phase.

Filter media consisting of a column of AZUD DISCS with a wide range of filtering degrees.



 WS Discs

 130 micron

 100 micron

 50 micron

 20 micron

 10 micron

5 micron

Body and housing protects and houses the filter element, and thanks to a safety clamp, it can be easily opened without the need for tools.

Ø Connection	Filter area per filter	Filter volume per filter
2" 3"	1.620 cm ²	2.430 cm ³
4"	3.240 cm ²	4.860 cm ³

+ Applications



Protection of cooling systems



Filter media protection



UF membrane protection



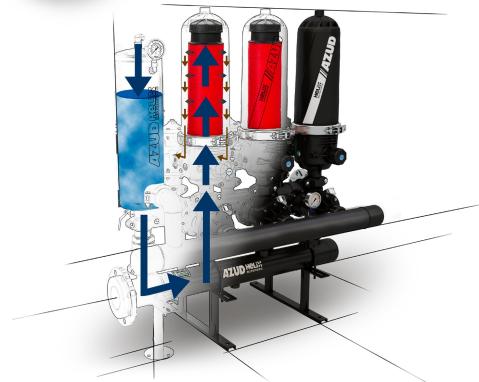




Reclaimed water



AIR-ASSISTED SELF-CLEANING





Heavy duty applications

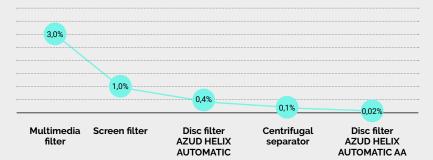
Exclusive AIR ASSISTED BACKWASH

system for applications with high dirt loads of organic and sticky particles, such us open intake sources of sea or fresh water, industrial process water reuse or reclaimed wastewater.

Enhanced backwash

An external pneumatic source boosts the filtered water stored in the auxiliary tank while injecting air to generate a very highspeed water-air flushing fluid that ensures a more effective self-cleaning of the filter media with less water consumption.







Huge water saving

AZUD HELIX AUTOMATIC AA equipment requires just 10 l of filtered water during a flushing time of 6-8 seconds to clean efficiently each filter element, that means a water saving of 99% versus multimedia filters.

AZUD Filtration Solutions



AZUD HELIX AUTOMATIC **FT200 DLP**

- Low flow rates (<300 m³/h)
- Medium TSS load
- Coarse filtration (>100 µm)



AZUD HELIX AUTOMATIC FT4DCL DLP

- Average flow rates (300 - 1.000 m³/h)
- Very compact design



AZUD HELIX AUTOMATIC FT200 DLP AA

- Low flow rates (<300 m³/h)
- High TSS load
- Fine filtration (<100 µm)
- Organic / sticky particles



AZUD HELIX AUTOMATIC **FT4DC DLP**

- High flow rates (>1,000 m³/h)
- Very compact design
 - Adaptability according to the project



The Culture of Water

SUCCESS STORIES



Ref.: CFE Comisión Federal de Electricidad APPLICATION: Cooling tower side stream filtration FLOW: 200 m³/h LOCATION: Mexico



Ref.: Pharmaceutical industry APPLICATION: Multimedia filter protection in a sea water desalination plant FLOW FLOW: 120 m³/h LOCATION: Spain



Ref.: ACCIONA APPLICATION: UF membrane protection in a sea water desalination plant FLOW: 19,800 m³/h LOCATION: Qatar



Ref.: Plastics industry APPLICATION: Filtration in cooling water system for plastic extrusion lines FLOW: 5 x 50 m³/h LOCATION: Germany



Ref.: Municipal wastewater treatment plant APPLICATION: Reclaimed water for irrigation FLOW: 150 m³/h LOCATION: Mexico



Ref.: Municipal wastewater treatment plant APPLICATION: Protection of microfiltration cartridges FLOW: 500 m³/h LOCATION: Brazil



SISTEMA AZUD, S.A. Avda. de las Américas P. 6/6 - Pol. Ind. Oeste 30820 ALCANTARILLA • MURCIA • SPAIN

