AZUD NEXUS

New generation of self-cleaning polymer screen filters for the removal of suspended particles, with a continuous supply of filtered water thanks to efficient self-cleaning via suction nozzles.

Ideal for facilities seeking a reliable, automatic filtration solution that maximizes return on investment.



Technical characteristics

- **Filtration technology:** Screen
- **Cleaning system:** Self-cleaning
- **Material:** Polymeric
- **Models:** 2”, 3” and 4”
- **Configuration:** Horizontal and Vertical
- **Actuation:** Hydraulic
- **Nominal pressure:** PN10

Unique selling points

Reliability

Durable and trouble-free operation thanks to its high-quality polymer construction.

Robust PN10 design with a 2-year warranty.

Saving

Longer filtration time between cleanings thanks to patented HELIX technology and the high retention capacity of the pre-filter and mesh.

Powerful suction nozzles ensure the lowest water consumption on the market.

Simplicity

Easy, tool-free access to internal components.

Pre-filter cleaning without removal or interruption of filtration, via manual or automatic valve.

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Product range

Model	Filtration area	Max. flow rate (125 µ)	Type of connection
	cm²	m³/h	
2"	1.250	30	BSP
	1.250	30	NPT
	1.250	30	GRV
3"	1.650	50	GRV/FLG
4"	2.500	80	GRV/FLG

Drainage connection: 2" Grooved
Universal flange compatible with DIN 2576, ANSI B16.5 CLASS 150 and BS-10 Table D

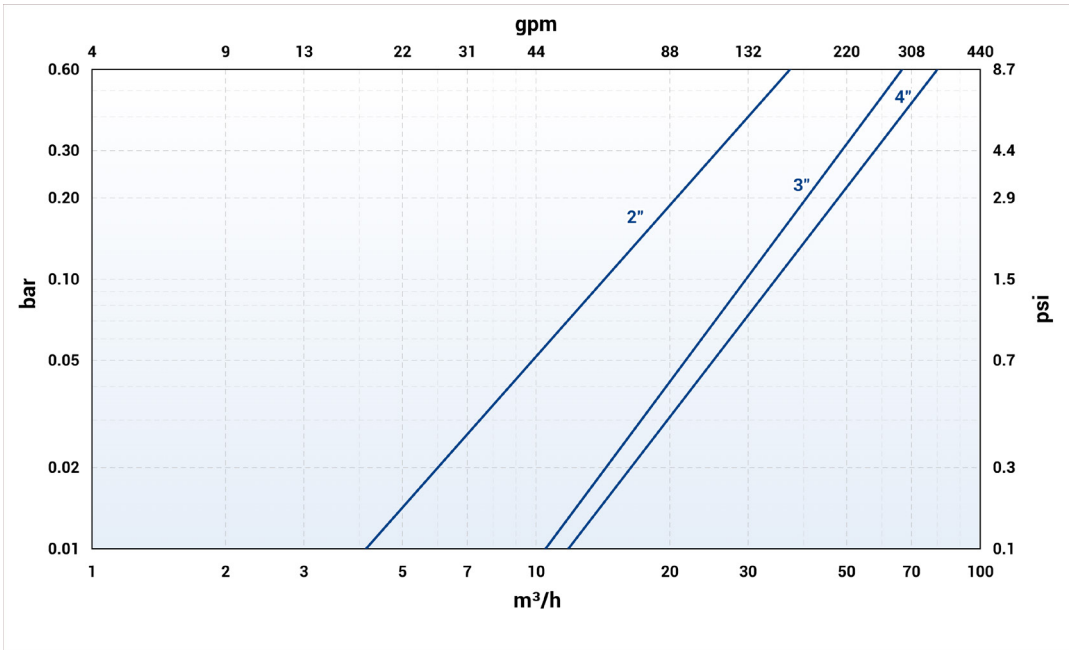
Filtration degrees



Working condition

Model	Max. Working Pressure	Min. working pressure	Min. Backflushing pressure	Min. cleaning flow rate	Flushing cycle time	pH	Water temperature
	bar	bar	bar	l/s	s		°C
2"	10	0,8	1,5	1,7	10	4 - 11	60
3"	10	0,8	1,5	2,1	10	4 - 11	60
4"	10	0,8	1,5	2,4	10	4 - 11	60

Head Loss Graph (Flow rate vs Pressure)



Head loss calculated with 130 micron screen

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Construction Materials

Body	Reinforced polyamide
Screen	316L Stainless Steel
Screen support	Polypropilene
Drainage Valve	Reinforced Polyamide
Cleaninng system	PBT

Controller - AZUD KRONOS



Model	AZUD KRONOS
Connectivity	Bluetooth BLE 5.1
Configuration and operation	Mobile app
Supply voltage	12 V DC (2x1.5V Type D batteries). USB-C connection option
Solenoids	3-way 12 V DC LATCH. Hydraulic control
Cleaning activation	By time, pressure differential, schedule, manual, and external electrical signal
Digital outputs	DO-1: Filter control
	DO-2/DO-3: Configurable with a second filter, sustaining valve and/or automatic prefilter cleaning
Digital inputs	External differential pressure switch, external cleaning signal, pausing of time-interval cleanings, and cleaning cancellation
Temperature range	-10 ºC to 60 ºC
Max. Working pressure	10 bar
Clasificación IP	IP65

Includes pressure and temperature sensors for continuous monitoring of inlet and outlet values.

Cloud platform – AZUD INFINITY

AZUD INFINITY is a cloud environment that centralizes AZUD KRONOS information on a single platform to manage and analyze filter operation, supporting diagnostics and decision-making.



- Centralized management of all your controllers
- Controllers displayed on a map
- Analysis of alarms, cleaning cycles and filter statuses
- User and permission management
- Access to technical documentation and manuals
- Technical support

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Related products



AZUD HELIX AUTOMATIC 200