

# AZUD

## ***AZUD HELIX AUTOMATIC DISC FILTERS***



**Helix**<sup>®</sup>  
SYSTEM

**AZUD HELIX AUTOMATIC** Disc filtration unit is fully automatic, equipped with automatic backwash based on pressure differential and time both. Unit is modular type, skid mounted, ready for installation completed with all accessories like Inlet, outlet and drain headers, multiport valves and control panel.



### advantages

- ✓ **Water and energy saving:** Minimum backflushing pressure for maximum efficiency per filter thereby optimizing energy and water consumption.
- ✓ **Maximum safety and long life:** It's patented design and superior quality MOC (Material of Construction) guarantees an extended life with high resistance.
- ✓ **AZUD HELIX SYSTEM:** Helix creates Centrifugal Action which optimizes the filtration performance and reduces backwash frequency and maintenance.
- ✓ **Self-cleaning filtering element:** Backwash uses minimal water maintaining an efficient cleaning action.
- ✓ **Wide filtration range (5 to 400 micron).**
- ✓ **Modularity, Versatility, Compatibility:** The system permits wide range of flows and configurations using a minimal number of components.
- ✓ **Compact assembled systems for easy transportation and installation**
- ✓ **Manufactured in high strength plastic materials**
- ✓ **Low Maintenance:** No tools required
- ✓ **Low Footprint:** Various configurations available to minimize footprint area resulting in space saving.

Automatic self-cleaning arrangement is based on low energy consumption for energy saving with power requirement of 220V. All connections between Filtration unit and Control Panel are quick connecting type.

### Anti-clogging Device



The HELIX generates a helical centrifuge effect, which keeps the particles in suspension for a long time thereby delaying the clogging. This results in zero or minimal maintenance.



### Quality Water Concentration interval of suspended Solids TSS to the Quality of water and filtration grade

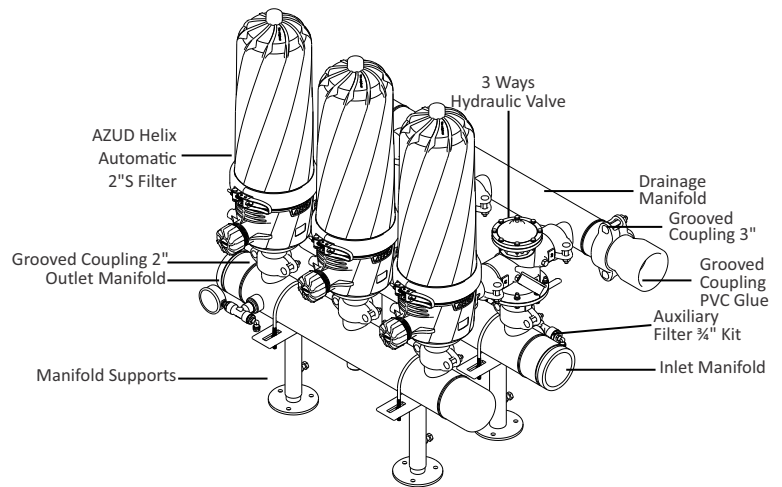
Filtration Grade (Micron)	Quality Water			
	Good	Average	Poor	Very Poor
200	0-45	45-90	90-135	135-180
130	0-40	40-80	80-120	120-160
100	0-35	35-70	70-95	95-130
50	0-25	25-50	50-75	75-100
20	0-20	20-40	40-60	60-80
5-10 (W)	0-10	10-20	20-30	30-40

## AZUD filtration grades available with special design for absolute filtration

	<b>MG Disc</b>	400 micron	200 micron	130 micron	100 micron	—	—	—	—
	<b>WS Disc</b>	—	—	130 micron (on request)	100 micron (on request)	50 micron	20 micron	10 micron	5 micron

## technical detail

- **Filter Housing :** Polyamide reinforced with fiber glass
- **Element:** Polypropylene
- **Max Temperature:** 60° C
- **Clamps:** Stainless Steel (SS)
- **Electrical Control Panel:** IP protected
- **Sealing element:** NBR
- **pH- 4 to 10**
- **Connection:** Flanged/ threaded /Victaulic
- **Back washing Pressure (Min):**  
2.8 to 3.5 bar for standard unit and  
1.5 bar for DLP units
- **Manifolds made in HDPE**
- **Max. working Pressure:** 10 bar (6 bar for DLP)
- **Minimum Working pressure:** 1.5 bar (1.2 bar for DLP)
- **Element:** 100/50/20/10/05 microns available.



**Element Option**  
 RPA: Polyamide reinforced with glass fiber  
 PP: Polypropylene  
 NBR: Nitril rubber  
 A, Inox: Stainless Steel

Module No.	Inlet & Outlet Size		Flow Rate (m <sup>3</sup> /hr.)					Filtration Area (cm <sup>2</sup> )	Control Panel (220 V)
	100μ	< 100μ	100μ	50μ	20μ	10μ	05μ		
201	2"	2"	20	14	-	-	-	1492	109T/1 FBC
202	3"	3"	40	28	14	-	-	2984	109T/2 FBC
203	4"	3"	60	42	21	15	12	4476	109T/3 FBC
204	6"	4"	80	56	28	20	16	5968	109T/4 FBC
205	6"	4"	100	70	35	25	20	7460	109T/5 FBC
206	6"	6"	120	84	42	30	24	8952	109T/6 FBC
207	6"	6"	140	98	49	35	28	10444	109T/7 FBC
208	8"	6"	160	112	56	40	32	11936	109T/8 FBC
Back wash pressure & water required (standard units)			2.8 bar /2.5 l/s		3.5 bar /3.1 l/s				
DLP Units			1.3 bar		1.5 bar				

Water flow rate are based on average water quality.

μ = micron

Above these flow, compact unit are available with other models.

## Sectors

Food & Beverage  
Cars Industry  
Cement Industry  
Power & Energy  
Pharma & Cosmetics  
Landscape & Irrigation  
Public Service  
Municipal  
Naval  
Pulp & Paper  
Petrochemical  
Aquaculture  
Plastic Industry  
Chemical Industry  
Iron & Steel Sector  
Leather Industry



## Applications

Process Water  
Makeup Water  
Cooling Towers  
UF Filtration  
Irrigation  
Recirculation  
Sewage Treatment  
Prefiltration



Bawal, India



Murcia, Spain



## AZUD INDIA

311/94 Nehru Place, New Delhi- 110 019  
Tel.: +91-11-46224444, 65027662  
E-mail: [azud.india@azud.com](mailto:azud.india@azud.com)  
web: [www.azud.in](http://www.azud.in), [www.azud.com](http://www.azud.com)

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