AlphaDisc™ DISC FILTERS

LEAN & MEAN FILTRATION MACHINE

AlphaDisc™ is the ultimate irrigation system protection thanks to a combination of precise depth filtration, high dirt-holding capacity and a unique easy-to-scale modular design that covers a wide range of flow rates or water quality needs.

AlphaDisc™ prevents clogging and partial clogging, ensuring system longevity and uniformly irrigated crops leading to better ROI, cost saving and peace of mind.

High Efficiency

High dirt-holding capacity

Modular & Flexible

Benefits & Features

- High efficiency, precise depth filtration - Unique and improved disc design with precise filtration grade through all depths of the disc for better clogging protection.
- High dirt-holding capacity - High filtration volume and area, coupled with lowest head loss in the industry, ensures higher particles capture, fewer backflush cycles, and less downstream disruption.
- Hyper modular - Unique modular design offers easy scalability as your needs evolve.
- Low backflush flow rate and low head loss – Results in a significantly more cost-effective irrigation system.
- AlphaDisc™ smart controller - Innovative controller with “always on” access to filtration data; IP65 rating.
- Smaller footprint - Vertical installation for a well-designed, more cost-effective irrigation room.
- Multiple configurations - Inline, online and angle configuration (single unit) – can be easily adapted to any system configurations.
- Durable and long-lasting product – Made from anti-corrosive materials.

→ APPLICATIONS

Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

SINGLE 3"

DUAL 4"

TRIO 6"

SINGLE XL 3"/4"

DUAL XL 6"

TRIO XL 8"

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→ RECOMMENDED FLOW RATE

		SINGLE 3"				SINGLE XL 3"				SINGLE XL 4"				DUAL 4"				DUAL XL 6"				TRIO 6"				TRIO XL 8"			
		GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR	GOOD	AVERAGE	POOR	VERY POOR
100 MIC	M³/H	50	35	25	20	80	60	55	50	110	85	75	60	100	70	50	40	220	170	150	120	150	105	75	60	330	255	225	180
	GPM	220	154	110	88	352	264	242	220	484	374	330	264	440	308	220	176	968	748	660	528	660	462	330	264	1,452	1,122	990	792
130 MIC	M³/H	50	40	35	25	80	60	55	50	110	90	80	70	100	80	70	50	220	180	160	140	150	120	105	75	330	270	240	210
	GPM	220	176	154	110	352	264	242	220	484	396	352	308	440	352	308	220	968	792	704	616	660	528	462	330	1,452	1,188	1,056	924

→ TECHNICAL SPECIFICATIONS

	FILTRATION AREA		FILTRATION VOLUME		INLET/OUTLET DIAMETER		CONNECTION TYPE	MAXIMUM OPERATING PRESSURE		WEIGHT (EMPTY)	
	CM²	IN²	CM³	IN³	INCH	MM		BAR	PSI	KG	LB
SINGLE 3"	1,760	272	2,296	140	3	80	GROOVED / UNIVERSAL FLANGE	10	145	54	118
SINGLE XL 3"	5,240	383	6,284	383	3	80				57	126
SINGLE XL 4"	5,240	383	6,284	383	4	100				58	129
DUAL 4"	3,520	544	4,592	280	4	100				115	253
DUAL XL 6"	10,480	1,624	12,568	766	6	150	UNIVERSAL FLANGE			127	279
TRIO 6"	5,280	816	6,888	420	6	150				156	344
TRIO XL 8"	15,720	2,437	18,852	1,149	8	200				182	401

For other configurations, please contact a Netafim representative.

→ FLUSHING DATA

	MINIMUM PRESSURE FOR BACK FLUSH		BACK FLUSH FLOW RATE*		RECOMMENDED FLUSHING TIME	REJECT WATER VOLUME PER FLUSH CYCLE*		BACK FLUSH MANIFOLD DIAMETER		BACK FLUSH MANIFOLD CONNECTION TYPE
	BAR	PSI	M³/H	GPM		LITERS	GALONS	INCH	MM	
SINGLE 3"	1.5	22	7.2	44	18 SEC	36	9.5	3	80	GROOVED
SINGLE XL 3"			13	57.2		65	17.2			
SINGLE XL 4"			13	57.2		65	17.2			
DUAL 4"			7.2	44		36	9.5			
DUAL XL 6"			13	57.2		65	17.2			
TRIO 6"			7.2	44		36	9.5			
TRIO XL 8"			13	57.2		65	17.2			

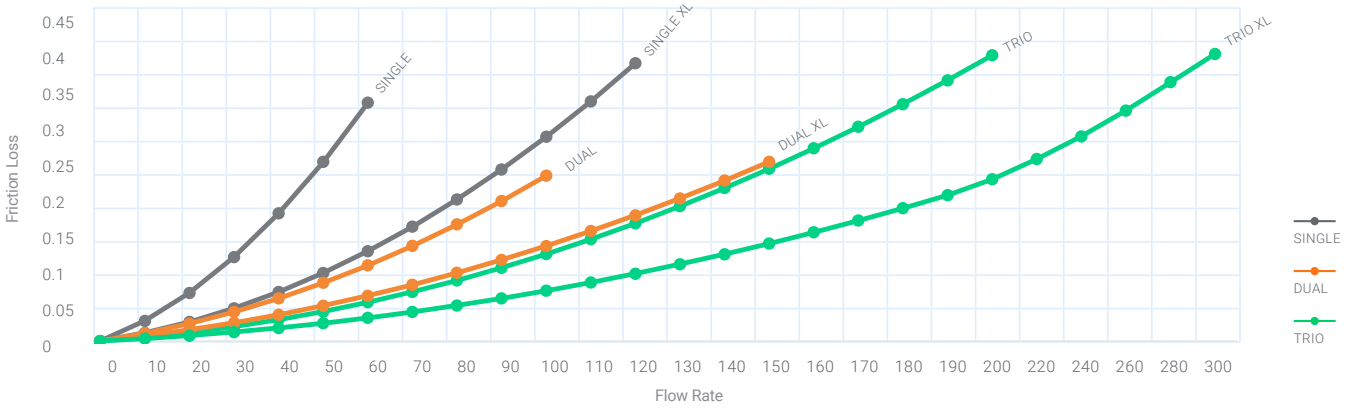
* At 1.5 bar (22 psi).

***When the pressure downstream is over 6 bar during backwash, installing an orifice valve in the drain manifold is recommend to prevent damage to the AlphaDisc™ spines.**

→ CONTRACTION MATERIALS AND TEMPRATURE

FILTER HOUSING AND LID	RPA (REINFORCED POLYAMIDE)
DISCS	PP (POLYPROPYLENE) OR PA (POLYAMIDE)
CLEANING MECHANISM	ALL POLYMERIC
EXHAUST VALVE	ALL POLYMERIC
SEALS	EPDM
OPERATING TEMPERATURE	5-60 C (40-140 F)

→ HEAD LOSS



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