

ALPHADISC™ DISC FILTERS

THE LEAN & MEAN FILTRATION MACHINE



ALPHADISC™ RANGE

AlphaDisc™ is the optimal irrigation solution for a wide range of applications. It is a primary or secondary automatic filter that offers maximum protection in systems irrigating from surface water sources, such as reservoirs, canals, rivers and wastewater, that contains algae and other organic matter.

The modular design, unparalleled simplicity and extreme filtration precision ensures a filtration solution that covers a wide range of flow rates and water quality needs. AlphaDisc™ prevents clogging and partial clogging with massive success. Its precise filtration ensures system longevity and uniformly irrigated crops leading to higher efficiency and peace of mind.

/ Benefits & Features

-  **High Filtration Efficiency** – proven disc design ensures precise filtration through all depths of the disc for higher clogging prevention.
-  **Unparalleled Simplicity** – Fewer parts, easy maintenance, service and repair and a generally simpler design.
-  **Supported** – Activate your included Filter Service plan upon installation of your AlphaDisc™ filter bank at no additional cost.
-  **Durable** – Manufactured with durable anti-corrosive materials.
-  **Highly Modular** – Unique modular design offers easy scalability as your needs evolve. Single units offer multiple (inline, online and angle) configurations. To further ensure efficient modularity, units can be ordered with or without controllers.
-  **Smart** – the AlphaDisc™ smart controller offers always-on access to filtration data. The controller has an IP65 rating making it rain and dust proof.
-  **High Dirt-holding Capacity** – High filtration velocity and area, coupled with the lowest head loss in the industry, maintains Netafim disc filter standards of particles captured. It ensures fewer backflush cycles, and less downstream disruption.
-  **Small Footprint** – Vertical installation ensures a well-designed, more cost-effective pumphouse.
-  **Cost-Effective** – Low total backflush requirements and low head loss result in a cost-effective irrigation system. AlphaDisc™ has no external backflush valve ensuring lower head loss as well as fewer moving parts and greater simplicity.



SINGLE 3"



SINGLE XL 4"



DUAL XL 6" 4-1



DUAL XL 6"



TRIO XL 8" 6-1



TRIO XL 8"

→ RECOMMENDED FLOW RATE

MICRON	SINGLE 3"				SINGLE XL 4"				DUAL XL 6" 4-1				DUAL XL 6"				TRIO 8" 6-1				TRIO XL 8"			
	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME
	m ³ /h																							
100	22	18	12	6	66	54	36	18	99	81	54	27	132	108	72	36	165	135	90	45	198	162	108	54
130	26	22	16	8	78	66	48	24	117	99	72	36	156	132	96	48	195	165	120	60	234	198	144	72

→ TECHNICAL SPECIFICATIONS

	FILTRATION AREA	FILTRATION VOLUME	INLET/OUTLET DIAMETER	CONNECTION TYPE	MAX OPERATING PRESSURE	WEIGHT (EMPTY)
	cm ²	cm ³	mm		bar	kg
SINGLE 3"	1 760	2 296	80	Universal Flange	10	54
SINGLE XL 4"	5 240	6 284	100			58
DUAL XL 6" 4-1	8 220	9 426	150			115
DUAL XL 6"	10 480	12 568				127
TRIO XL 8" 6-1	13 100	15 710	200			156
TRIO XL 8"	15 720	18 852				182

→ FLUSHING DATA

	MIN PRESSURE FOR BACKFLUSH	BACKFLUSH FLOW RATE*	RECOMMENDED FLUSHING TIME	REJECT WATER VOLUME PER FLUSH CYCLE*	BACKFLUSH MANIFOLD DIAMETER	BACKFLUSH MANIFOLD CONNECTION TYPE						
	bar	m ³ /h	seconds	ℓ	mm							
SINGLE 3"	1.5	7.2	18	36	80	Grooved/ Flanged						
SINGLE XL 4"		13		65								
DUAL XL 6" 4-1							13	65				
DUAL XL 6"									13	65		
TRIO XL 8" 6-1											13	65
TRIO XL 8"												

→ MATERIALS & TEMPERATURE

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

* At 1.5 bar

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

→ HEAD LOSS

