

# 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 - In-line, on-line 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"



DUO 4"



TRIO 6"



SINGLE XL 3 3/4"



DUO XL 6"



TRIO XL 8"

## → RECOMMENDED FLOW RATE

		Single 3"					Duo 4"					Trio 6"				
		Excellent	Good	Average	Poor	Very Poor	Excellent	Good	Average	Poor	Very Poor	Excellent	Good	Average	Poor	Very Poor
130mic / 120 mesh	m³/h	50	44	38	31	25	100	88	76	62	50	150	132	114	93	75
200mic / 80 mesh	m³/h	50	45	40	35	30	100	90	80	70	60	150	135	120	105	90

		Single 3" XL					Single 4" XL					Duo 6" XL					Trio 8" XL				
		Excellent	Good	Average	Poor	Very Poor	Excellent	Good	Average	Poor	Very Poor	Excellent	Good	Average	Poor	Very Poor	Excellent	Good	Average	Poor	Very Poor
130mic / 120 mesh	m³/h	80	70	60	50	40	110	96	83	69	55	220	192	166	138	110	330	288	249	207	165
200mic / 80 mesh	m³/h	80	72	69	56	48	110	99	88	77	66	220	198	176	154	132	330	297	264	231	198

For additional configurations, please contact Neafim representative

## → 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
DUO 4"	3,520	544	4,592	280	4	100	UNIVERSAL FLANGE	10	145	115	253
DUO XL 6"	10,480	1,624	12,568	766	6	150				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			
DUO 4"			7.2	44		36	9.5			
DUO 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

