

# 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™ provides increased efficiency versus current versions of disc technology, ensuring improved system longevity and a better ROI for the customer, while also bringing a more sustainable solution with reduced energy and backflush water.



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 configurations) – can be easily adapted to any system configurations.
- \* Made to stock*  
*\*\* Special order, longer lead time will apply*
- ✓ 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 3/4'



DUAL XL 6'



TRIO XL 8'

## → WATER QUALITY DEFINITIONS

**EXCELLENT:** Excellent Water Quality is considered to be Municipal Water Quality classification with negligible to no detectable contaminants. This quality is typical water found in testing laboratories to determine friction loss targets for manufacturers. Published flow rates with excellent water quality are the extreme upper limit of a product's published flow rate capabilities.

**GOOD:** Good Water Quality is considered to be normal well water with minimal to no measurable amounts of sand, silt, or clay. Good Water Quality will also only have trace amounts of minerals and/or biological material. This fits typical clean well water classification.

**AVERAGE:** Average Water Quality is considered to be well water with mild amounts of measurable sand (<2 ppm) and / or light loads of debris in surface water. Average Water Quality will have increased debris loads of minerals and biological activity. This fits more applications of properly maintained surface water (reservoirs, canals, lakes, ponds) classification.

**POOR:** Poor Water Quality is considered to be well water with moderate to excessive amounts of measurable sand (up to 10 ppm) or surface water in hot climates with increased biological growth and / or no chemical treatment. This fits more applications of poorly maintained surface water (reservoirs, canals, lakes, ponds) classification.

**VERY POOR:** Very Poor Water Quality is considered to be well water with extreme amounts of sand greater than 10 ppm as well as rivers, muddy canals, lakes and ponds with severe run off deposits and raw municipal wastewater. This fits most applications of municipal and / or animal wastewater classification.

## → RECOMMENDED FLOW RATES

		3" FL SINGLE				3" FL SINGLE XL				4" FL SINGLE XL				6" FL DUO XL				8" FL TRIO 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					
200 MIC / 80 MESH	GPM	220	198	176	154	132	352	317	282	246	211	480	432	384	336	288	960	864	768	672	576	1,440	1,296	1,152	1,008	864
130 MIC / 120 MESH	GPM	220	193	165	138	110	352	308	264	220	176	480	420	360	300	240	960	840	720	600	480	1,440	1,260	1,080	900	720
100 MIC / 140 MESH	GPM	220	187	154	121	88	352	299	246	194	141	480	408	336	264	192	960	816	672	528	384	1,440	1,224	1,008	792	576

## → TECHNICAL SPECIFICATIONS

	MIN BACKFLUSH PRESSURE (PSI)	BACKFLUSH FLOW RATE (GPM)	CONNECTION SIZE & TYPE	BACKFLUSH MANIFOLD CONNECTION & TYPE	MAX OPERATING PRESSURE (PSI)	WEIGHT (LB)
3" FL SINGLE	22	32	3" FL	3" FL	145	118
3" FL SINGLE XL		57	3" FL			126
4" FL SINGLE XL		57	4" FL			129
6" FL DUO XL		57	6" FL			279
8" FL TRIO XL		57	8" FL			401

For other configurations, please contact a Netafim representative.

\* At 1.5 bar (22 psi).

\* High backflush pressure can cause excessive wear on AlphaDisc™ discs and spine. It is not recommended that backflush pressure will exceed 7 bar. If backflush pressure is higher, installation of an orifice valve in the drain manifold is recommended. Please contact Netafim for additional information.

## → MATERIAL COMPOSITIONS

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

