# 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

Configurable & 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.
- Retrofitable, 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 - Bluetooth and cellular App communication and reporting
- 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"

DUO 4"

TRIO 6"

SINGLE XL 3"/4"

DUO XL 6"

TRIO XL 8"

NETAFIM™
GROW MORE WITH LESS

→
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## → RECOMMENDED FLOW RATE

| | | SINGLE 3" | | | | SINGLE XL 3" | | | | SINGLE XL 4" | | | | DUO 4" | | | | DUO 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 |
| | L/S | 13.9 | 9.7 | 6.9 | 5.5 | 22.2 | 16.6 | 15.3 | 13.9 | 30.5 | 23.6 | 20.8 | 16.6 | 27.8 | 19.4 | 13.9 | 11.1 | 61.1 | 47.2 | 41.6 | 33.3 | 41.6 | 29.2 | 20.8 | 16.6 | 91.7 | 70.8 | 62.5 | 50 |
| 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 |
| | L/S | 13.9 | 11.1 | 9.7 | 6.9 | 22.2 | 16.6 | 15.3 | 13.9 | 30.5 | 25 | 22.2 | 19.4 | 27.8 | 22.2 | 19.4 | 13.9 | 61.1 | 50 | 44.4 | 38.9 | 41.6 | 33.3 | 29.2 | 20.8 | 91.7 | 75 | 66.7 | 58.3 |
| 200 MIC | M³/H | 50 | 40 | 40 | 30 | 85 | 65 | 60 | 55 | 110 | 95 | 85 | 80 | 100 | 80 | 80 | 60 | 220 | 190 | 170 | 160 | 150 | 120 | 120 | 90 | 330 | 285 | 255 | 240 |
| | L/S | 13.9 | 11.1 | 11.1 | 8.3 | 23.6 | 18 | 16.6 | 15.3 | 30.5 | 26.4 | 23.6 | 22.2 | 27.8 | 22.2 | 22.2 | 16.6 | 61.1 | 52.8 | 47.2 | 44.4 | 41.6 | 33.3 | 33.3 | 25 | 91.7 | 79.2 | 70.8 | 66.7 |

## → TECHNICAL SPECIFICATIONS

| | FILTRATION AREA | FILTRATION VOLUME | INLET/OUTLET DIAMETER | | CONNECTION TYPE | MAXIMUM OPERATING PRESSURE | | WEIGHT (EMPTY) |
|---|---|---|---|---|---|---|---|---|
| | CM² | CM³ | INCH | MM | | BAR | PSI | KG |
| SINGLE 3" | 1,760 | 2,296 | 3 | 80 | GROOVED / UNIVERSAL FLANGE | 10 | 145 | 54 |
| SINGLE XL 3" | 5,240 | 6,284 | 3 | 80 | | | | 57 |
| SINGLE XL 4" | 5,240 | 6,284 | 4 | 100 | | | | 58 |
| DUO 4" | 3,520 | 4,592 | 4 | 100 | | | | 115 |
| DUO XL 6" | 10,480 | 12,568 | 6 | 150 | UNIVERSAL FLANGE | | | 127 |
| TRIO 6" | 5,280 | 6,888 | 6 | 150 | | | | 156 |
| TRIO XL 8" | 15,720 | 18,852 | 8 | 200 | | | | 182 |

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 | L/S | | LITRES | INCH | MM | |
| SINGLE 3" | 1.5 | 22 | 7.2 | 2 | 18 SEC | 36 | 3 | 80 | GROOVED |
| SINGLE XL 3" | | | 13 | 3.6 | | 65 | | | |
| SINGLE XL 4" | | | 13 | 3.6 | | 65 | | | |
| DUO 4" | | | 7.2 | 2 | | 36 | | | |
| DUO XL 6" | | | 13 | 3.61 | | 65 | | | |
| TRIO 6" | | | 7.2 | 2 | | 36 | | | |
| TRIO XL 8" | | | 13 | 3.6 | | 65 | | | |

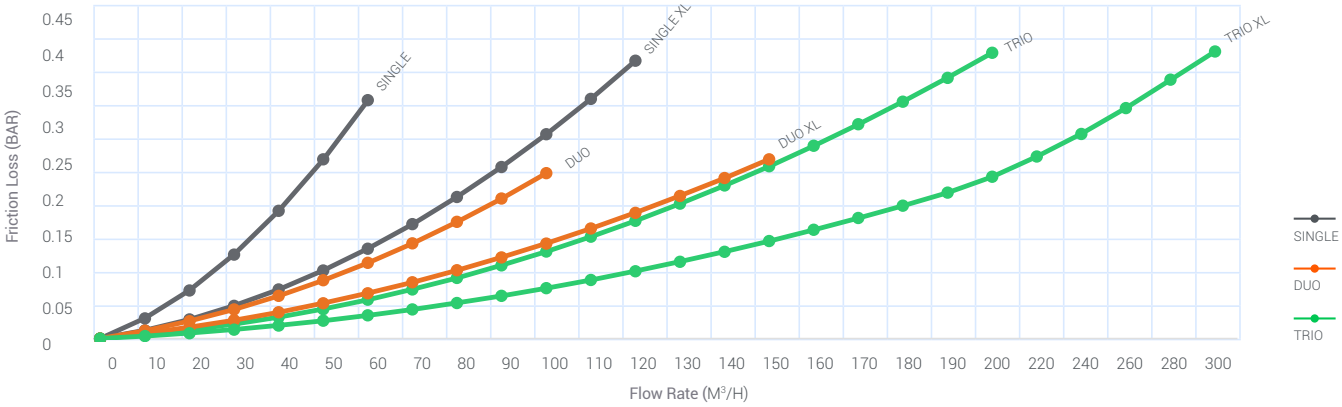
* At 1.5 bar (22 psi).

***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 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 (40-140 F) |

## → HEAD LOSS (130 MICRON)



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