

# Alphapollo™ Disc Filters

**PROVEN RELIABILITY MEETS  
CUTTING EDGE PERFORMANCE.**

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



Very high efficiency



High dirt-holding capacity



Flexible

## / Benefits & Features

- Very high efficiency  
Unique and improved disc design with precise filtration grade through all depths of the disc ensuring better clogging protection
- High dirt holding capacity  
High dirt-holding capacity and high filtration volume and area, coupled with lowest head loss in the industry, ensures higher particles capture, fewer backflush cycles, and less downstream disruption
- Flexible  
Unique modular design offers easy scalability as your needs evolve
- Cost-effective  
Low backflush flow rate and low head loss result in a significantly more profitable irrigation system
- Innovative  
Alphapollo smart 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); easily adapted to any system configurations
- Made to last  
Durable and long-lasting product made from anticorrosive 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.

## → Configurations



Alphapollo 3



Alphapollo 4

## → Recommended Flow Rate

Alphapollo 3x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	1440	1296	1152	1008	864
120 mesh	gpm	1440	1260	1080	900	720
140 mesh	gpm	1440	1224	1008	792	576

Alphapollo 5x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	2400	2160	1920	1680	1440
120 mesh	gpm	2400	2100	1800	1500	1200
140 mesh	gpm	2400	2040	1680	1320	960

Alphapollo 7x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	3360*	3024*	2688*	2352	2016
120 mesh	gpm	3360*	2940*	2520*	2100	1680
140 mesh	gpm	3360*	2856*	2352	1848	1344

Alphapollo 8x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	3840*	3456*	3072*	2688*	2304
120 mesh	gpm	3840*	3360*	2880*	2400	1920
140 mesh	gpm	3840*	3264*	2688*	2112	1536

Alphapollo 9x12		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	4320*	3888*	3456*	3024	2592
120 mesh	gpm	4320*	3780*	3240	2700	2160
140 mesh	gpm	4320*	3672*	3024	2376	1728

Alphapollo 4x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	1920	1728	1536	1344	1152
120 mesh	gpm	1920	1680	1440	1200	960
140 mesh	gpm	1920	1632	1344	1056	768

Alphapollo 6x10		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	2880*	2592*	2304	2016	1728
120 mesh	gpm	2880*	2520*	2160	1800	1440
140 mesh	gpm	2880*	2448*	2016	1584	1152

Alphapollo 7x12		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	3360*	3024	2688	2352	2016
120 mesh	gpm	3360*	2940	2520	2100	1680
140 mesh	gpm	3360*	2856	2352	1848	1344

Alphapollo 8x12		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	3840*	3456*	3072	2688	2304
120 mesh	gpm	3840*	3360*	2880	2400	1920
140 mesh	gpm	3840*	3264	2688	2112	1536

Alphapollo 10x12		Excellent	Good	Average	Poor	Very Poor
80 mesh	gpm	4800*	4320*	3840*	3360*	2880
120 mesh	gpm	4800*	4200*	3600*	3000	2400
140 mesh	gpm	4800*	4080*	3360*	2640	1920

\* Not Recommended due to High Velocity in Manifolds

## → Technical Specifications

	Filtration Area	Filtration Volume	Inlet/Outlet Diameter	Connection Type	Maximum Operating Pressure	Weight (Empty)
	in <sup>2</sup>	in <sup>3</sup>	inch		psi	lbs
Alphapollo 3x10	2436	1149	10"	Universal Flange	145	731
Alphapollo 4x10	3248	1532				950
Alphapollo 5x10	4060	1915				1267
Alphapollo 6x10	4872	2298				1399
Alphapollo 7x10	5684	2681				1628
Alphapollo 8x10	6496	3064				1845
Alphapollo 7x12	5684	2681	12"			1832
Alphapollo 8x12	6496	3064				2076
Alphapollo 9x12	7308	3447				2292
Alphapollo 10x12	8120	3830				2782

For other configurations, please contact a Netafim representative.

## → Construction Materials and Temperature

Filter Housing & Lid	RPA (reinforced polyamide)
Discs	PP (polypropylene) or PA (polyamide)
Cleaning Mechanism	All polymeric
Exhaust Valve	All polymeric
Seals	EPDM
Operating Temperature	40-140F

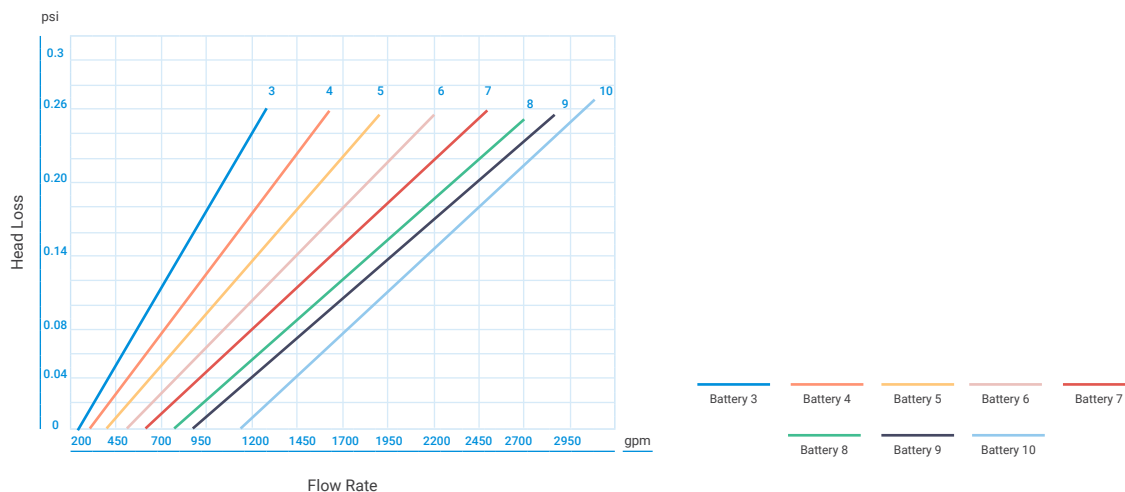
## → Flushing Data

	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
	psi	gpm	Seconds	Gallons	Inch	
Alphapollo 3x10	22	57.2	18sec	17.2	Dual 3" Lines	Grooved
Alphapollo 4x10						
Alphapollo 5x10						
Alphapollo 6x10						
Alphapollo 7x10						
Alphapollo 8x10		114.4		34.4		
Alphapollo 7x12						
Alphapollo 8x12						
Alphapollo 9x12						
Alphapollo 10x12						

\* At 22psi

\* High back flush pressure can cause excessive wear on Alphapollo™ discs and spine. It is not recommended that back flush pressure will exceed 87psi. If back flush pressure is higher, installation of an orifice valve in the drain manifold is recommended. Please contact Netafim for additional information

## → Head Loss



→ **Alphapollo Disc Filters - Modular**

Model Number	Spines	Flow Range*	Manifold In/Out	Drain Manifold	Solenoid	Pressure Rating
ADA3M10080CLD6	6 XL	576-1440	10" Flg	3" Grv	12VDCL	145
ADA3M10120CLD6						
ADA3M10140CLD6						
ADA4M10080CLD8	8 XL	768-1920	10" Flg	3" Grv	12VDCL	145
ADA4M10120CLD8						
ADA4M10140CLD8						
ADA5M10080CLD6	10 XL	960-2400	10" Flg	3" Grv	12VDCL	145
ADA5M10120CLD6						
ADA5M10140CLD6						
ADA6M10080CLD6	12 XL	1152-2880	10" Flg	3" Grv	12VDCL	145
ADA6M10120CLD6						
ADA6M10140CLD6						
ADA7M10080CLD8	14 XL	1344-3360	10" Flg	3" Grv	12VDCL	145
ADA7M10120CLD8						
ADA7M10140CLD8						
ADA8M10080CLD8	16 XL	768-1920	10" Flg	3" Grv	12VDCL	145
ADA8M10120CLD8						
ADA8M10140CLD8						
ADA8M12080CLD8	16 XL	960-2400	12" Flg	3" Grv	12VDCL	145
ADA8M12120CLD8						
ADA8M12140CLD8						
ADA9M12080CLD10	18 XL	1152-2880	12" Flg	3" Grv	12VDCL	145
ADA9M12120CLD10						
ADA9M12140CLD10						
ADA10M12080CLD10	20 XL	1344-3360	12" Flg	3" Grv	12VDCL	145
ADA10M12120CLD10						
ADA10M12140CLD10						

**Standards**

- All controllers are DC controller which need an AC/DC adapter if AC voltage is required
- All systems with controller will arrive with D75-A3P 12 VDC solenoid
- All systems are for maximum operation pressure of 145 psi, with a minimum back flush pressure of 22 psi.

→ **Alphapollo Upgrade Kits Disc Filters - Solid Manifolds And Modular Manifolds**

Model Number	Filtration Pods	3" Drain Manifold			
		4 Outlets	3 Outlets	2 Outlets	3-1 Outlets
ADA3PODKIT-MOD	3 Units		2		
ADA4PODKIT-MOD	4 Units	2			
ADA5PODKIT-SOLID	5 Units		2	2	
ADA6-1PODKIT-MOD	5 Units		2		2
ADA6PODKIT-ALL	6 Units		4		
ADA7PODKIT-ALL	7 Units	2	2		
ADA8PODKIT-ALL	8 Units	4			