

# APOLLO™ DISC-KLEEN FILTER

High Capacity  
Water Filtration  
System

## APPLICATIONS

- For surface water containing algae and other organic materials such as reservoirs, canals, rivers and reclaimed water applications
- Residential and multi-family developments
- Commercial landscapes, institutional parks, sports fields
- Golf courses
- Large landscape installations

## SPECIFICATIONS

- 4" drain manifold inlet/outlet connections: grooved
- Maximum operating pressures:  
Standard model: 90 psi  
High pressure model: 140 psi
- Minimum pressure required for backflush: 30 psi downstream of filters during backflush
- Maximum operating temperature: 158° F
- Minimum allowable pH: 5
- Minimum operating pressure for filtration: 20 psi
- Backflush flow rate @ 35 psi: 190 GPM
- Includes backflush controller

## MATERIALS

- Manifold: high density polypropylene
- Filter body and cover: high density polypropylene
- Discs: polypropylene
- Backflush valve: nylon
- Clamps and bolts: polymeric

## FEATURES & BENEFITS

### PROVEN DEPTH FILTRATION

Collects debris along the depth of the discs, not just at the surface like screen filters.

### MODULAR DESIGN

Provides even more portability as smaller units are assembled on-site to create larger filter units reducing installation costs.

### WATER INLET AND OUTLET VERSATILITY

Multiple inlet and outlet configurations provide maximum flexibility.

### MADE OF NON-CORROSIVE MATERIALS

Prevents rusting and corrosion from chemicals and weather.

### QUICK INSTALLATION

Factory assembled and tested. Delivered ready for hook-up and immediate operation.

### LESS BACKFLUSH TIME REQUIRED

Optimizes irrigation scheduling for uniform watering.

### MORE FILTER AREA

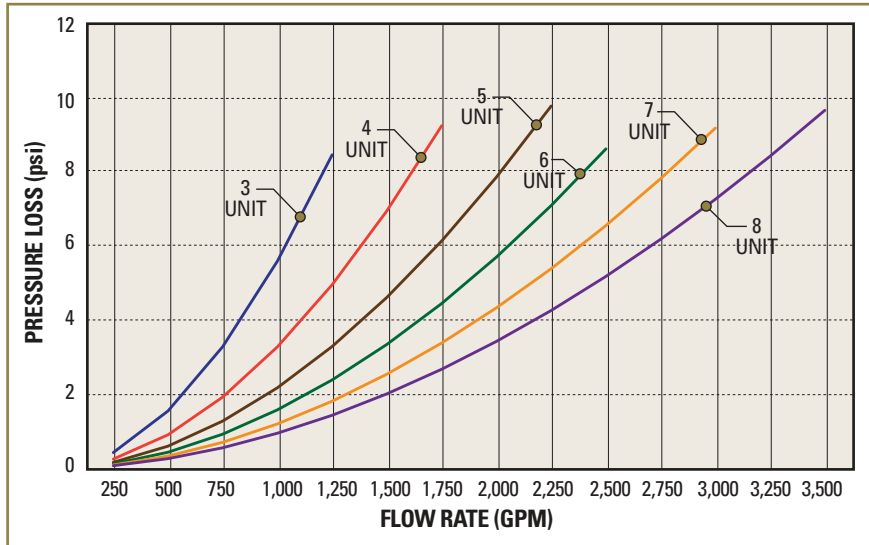
Longer filters with larger discs. Saves money by reducing total number of filter units required.

### LESS PRESSURE REQUIRED FOR CLEANING

Saves money by reducing pump size and energy costs.



## FLOW RATE VS. PRESSURE LOSS



## SPECIFICATIONS

	4 UNIT ANGLE	3 UNIT TWIN	4 UNIT TWIN	5 UNIT TWIN	6 UNIT TWIN	7 UNIT TWIN	8 UNIT TWIN
STANDARD MODEL MAX. OPERATING PRESSURE (psi)	90	90	90	90	90	90	90
HIGH PRESSURE MODEL MAX. OPERATING PRESSURE (psi)	140	140	140	140	140	140	140
FILTRATION SURFACE AREA (sq. in.)	1,625	2,435	3,245	4,055	4,865	5,675	6,485
BACKFLUSH FLOW PER UNIT (GPM at 35 psi)	95	190	190	190	190	190	190
BACKFLUSH VOLUME PER FLUSH CYCLE (GPM)	130	210	265	340	420	500	550
INLET/OUTLET MANIFOLD CONNECTION (in.)	10 FL	10 FL	10 FL	10 FL	10 FL	10 FL	10 FL

MANIFOLD CONNECTION: FL = Flanged

## MAXIMUM FLOW RATE (GPM)

WATER QUALITY*	FLOW PER SPINE		
	80 MESH	120 MESH	140 MESH
GOOD	198	183	171
AVERAGE	183	171	156
POOR	156	144	132
VERY POOR	132	117	105

## CALCULATING MAXIMUM FLOW RATE (GPM) PER FILTER UNIT:

Take the total number of spines based on the filter size and multiple that number by the Flow Per Spine based on the Water Quality and Mesh.

## SPINES PER FILTER

FILTER SIZE	NUMBER OF SPINES
4 UNIT ANGLE	4
3 UNIT TWIN	6
4 UNIT TWIN	8
5 UNIT TWIN	10
6 UNIT TWIN	12
7 UNIT TWIN	14
8 UNIT TWIN	16

## \*WATER QUALITY

**Good Water Quality:** Municipal water supply or well water from a clean aquifer with no sand, iron or manganese.

**Average Water Quality:** Wells with small amounts of sand (< 2 ppm) or clean surface water which includes lakes, ponds, reservoirs and canals.

**Poor Water Quality:** Well water with sand up to 10 ppm or surface water in hot climates with increased biological growth and no chemical treatment which includes lakes, ponds, reservoirs and canals.

**Very Poor Water Quality:** Well water with greater than 10 ppm of sand including rivers, muddy canals, lakes and ponds with severe run off deposits and raw municipal wastewater.

**Greater than 3 ppm Sand or Silt:** May require a pre-filter such as a hydrocyclone.

## ORDERING INFORMATION

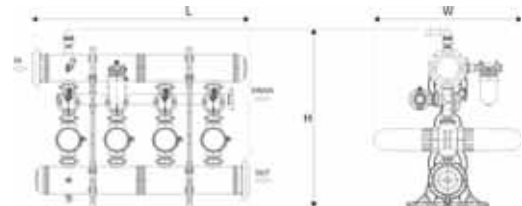
NUMBER OF FILTERS	MESH	MODEL NUMBER
4 ANGLE	80	DFAAP04A-080AHP
	120	DFAAP04A-120AHP
	140	DFAAP04A-140AHP
3 TWIN	80	DFAAPM03-080AHP
	120	DFAAPM03-120AHP
	140	DFAAPM03-140AHP
4 TWIN	80	DFAAPM04-080AHP
	120	DFAAPM04-120AHP
	140	DFAAPM04-140AHP
5 TWIN	80	DFAAPM05-080AHP
	120	DFAAPM05-120AHP
	140	DFAAPM05-140AHP
6 TWIN	80	DFAAPM06-080AHP
	120	DFAAPM06-120AHP
	140	DFAAPM06-140AHP
7 TWIN	80	DFAAPM07-080AHP
	120	DFAAPM07-120AHP
	140	DFAAPM07-140AHP
8 TWIN	80	DFAAPM08-080AHP
	120	DFAAPM08-120AHP
	140	DFAAPM08-140AHP

AC Models include installed backflush controller for 110VAC power supply.

Solenoids are 24VAC - other voltages available by special order.

Backflush controllers are either 4 or 8 station depending on number of filters.

Maximum operating pressure - 90 psi.



## DIMENSIONS & WEIGHT

FILTER SIZE	LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT (LBS)
4 UNIT ANGLE	64 1/2"	36 1/8"	47 15/16"	510
3 UNIT TWIN	68 9/32"	60 9/32"	71 9/32"	351
4 UNIT TWIN	87 15/16"	60 9/32"	71 9/32"	455
5 UNIT TWIN	107 5/8"	60 9/32"	71 9/32"	1,254
6 UNIT TWIN	127 5/16"	60 9/32"	74 25/32"	1,495
7 UNIT TWIN	147"	60 9/32"	74 25/32"	1,750
8 UNIT TWIN	166 11/16"	60 9/32"	74 25/32"	2,010



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