

Super Galaxy

Automatic self-cleaning Arkal Spin Klin™ disc filter, designed as a highly efficient solution for high flow rate applications and for all types of water, including seawater.



Registered design. Patent pending

flow rates	filtration degrees	inlet/outlet diameter	minimum operating pressure
2,200-22,000 gpm (500-50,000 m³/h)	20-400 micron	8"-12"	15 psi (1 bar)

features:

- Arkal's proven Spin Klin™ disc, depth filtration and patented backwash technology
- New design containing 16 spines in one all polymeric body
- Reduced number of components and modular flexibility
- Corrosion Resistant Materials
- Minimal maintenance
- Applications: Desalination, Tertiary (Wastewater) treatment, Potable Water treatment, Membrane protection and Industrial Process Water
- NSF Certified*

* Certification does not include valves, recommended valves are NSF certified independently.

Super Galaxy Modules

Super Galaxy Spin Klin™ Filtration Systems are assembled from multiple filter modules. A filter module typically contains from one to four filters that operate as a single filter unit and may be installed either horizontally or vertically. Systems may be comprised from any number of module units, depending on the flow rate and micron degree, and are connected to the common inlet and outlet headers manifolds at the installation site. Each module has its own actuated butterfly valves.

The Super Galaxy Kit

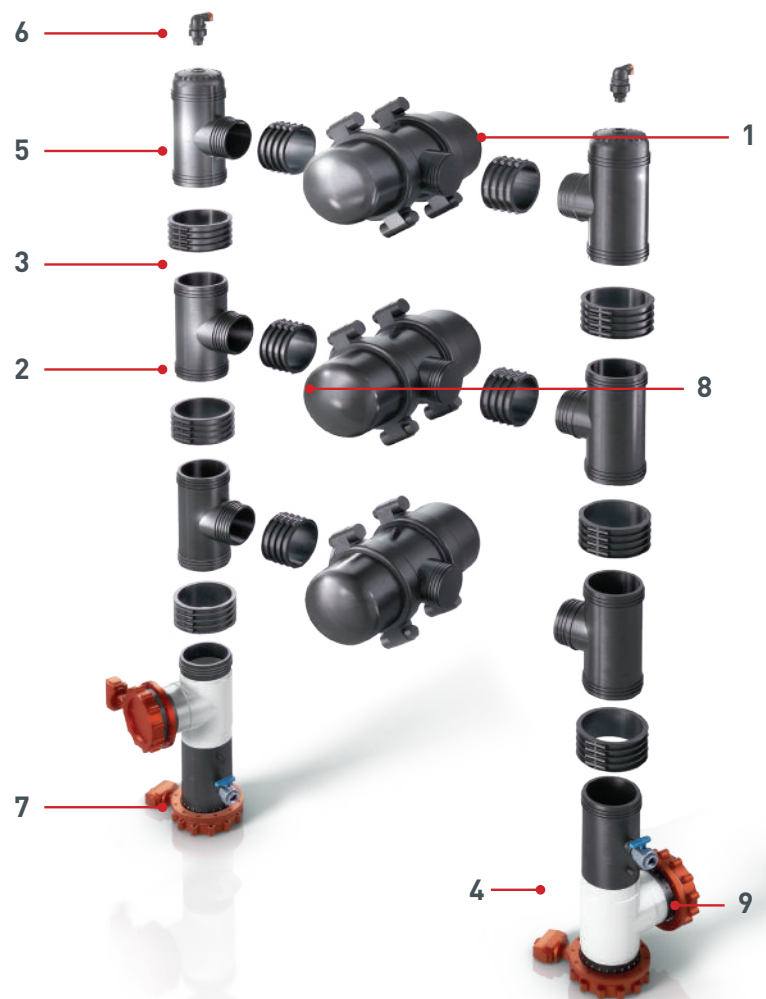
The modules are assembled from standard assembly kits of 9 components as shown below.

These standardized assembly kits can address any flow above 4402.8 gpm (1,000 m³/h), optimize cost savings, minimize footprint, lowers shipping volume, reduces inventory, and shortens leadtime.

The Super Galaxy Horizontal Kit is recommended for small and medium flows and is easy to install.

The Super Galaxy Vertical Kit offers the optimal solution in footprint for large flows.

Serial #	Part Description
1	Super Galaxy Filter
2	Injected Tee
3	12" Coupling
4	Tee for Outlet
5	Inlet & Outlet Tee with Cap
6	Air Release Valve
7	Tee for Inlet
8	10" Coupling
9	Butterfly Valve w/actuator



Unique features and benefits of the Super Galaxy:

- Modules are assembled from standard assembly kits of 9 components
- Same components for all flow rates
- Adaptable footprint, either vertical or horizontal installation

Technical Specifications

Super Galaxy - Horizontal Modules:

Filter Type	1 Module Unit*	2 Module Units*	3 Module Units*	4 Module Units*
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General Data					
Max. operating pressure ¹		90 psi (6 bar)			
Max. water temperature ¹		150°F (60°C)			
Min. backwash pressure**		36 psi (2.5 bar)			
Max. recommended flow rate***	100μ	925 gpm (210 m ³ /h)	1,850 gpm (420 m ³ /h)	2,750 gpm (625 m ³ /h)	N/A
	55μ	705 gpm (160 m ³ /h)	1,410 gpm (320 m ³ /h)	2,115 gpm (480 m ³ /h)	2,815 gpm (640 m ³ /h)
	40μ	565 gpm (130 m ³ /h)	1,130 gpm (260 m ³ /h)	1,690 gpm (385 m ³ /h)	2,245 gpm (510 m ³ /h)
	20μ	350 gpm (80 m ³ /h)	700 gpm (160 m ³ /h)	1,060 gpm (240 m ³ /h)	1,410 gpm (320 m ³ /h)
Filtration surface area		2,182 in ² (14,080 cm ²)	4,365 in ² (28,160 cm ²)	6,547 in ² (42,240 cm ²)	8,729 in ² (56,320 cm ²)
Filtration volume		1,289 in ³ (21,120 cm ³)	2,578 in ³ (42,240 cm ³)	3,866 in ³ (63,360 cm ³)	5,155 in ³ (84,480 cm ³)
Inlet/outlet diameter		8" (200 mm)		12" (315 mm)	
Weight [empty]		695 lb (315 kg)	1,520 lb (690 kg)	1,940 lb (880 kg)	2,350 lb (1,065 kg)

¹ Maximum operating pressure and temperature are interdependent parameters and are given for general reference only. Please consult your authorized Amiad representative for the application specific parameters.

² For higher flow rates at → 100μ larger manifold sizes and configurations are available. Consult your authorized Amiad representative.

* Minimum of 3 or 4 module units required for downstream flow during backwash – consult with your authorized Amiad representative.

** For →100μ - if inlet pressure is less than the stated minimal pressure, an external source or pressure aided backwash is required.

For finer micron degrees consult your authorized Amiad representative.

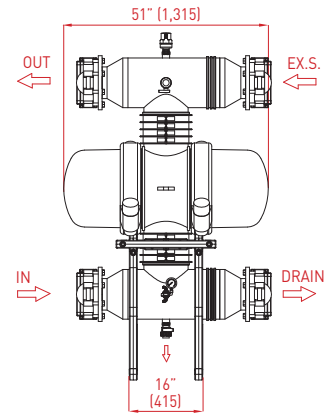
*** Maximum recommended flow rate is for average water quality. Flow may vary as water quality changes.

Backwash Data Per Module				
Valves (inlet/outlet & drain)	Bray series 30/31 butterfly valves 8"-12"			
Backwash cycle	15-20 sec			
Minimum flow for backwash	705 gpm (160 m ³ /h)	1,410 gpm (320 m ³ /h)	2,115 gpm (480 m ³ /h)	2,815 gpm (640 m ³ /h)
Backwash volume per backwash	176 gallons (667 liters)	352 gallons (1,334 liters)	529 gallons (2,001 liters)	705 gallons (2,667 liters)

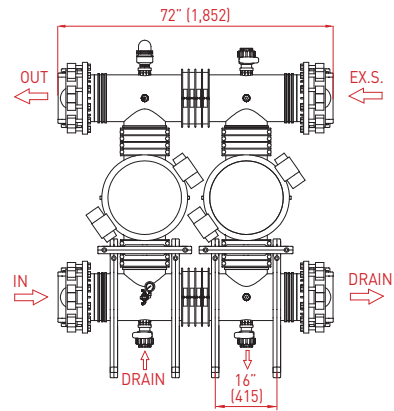
Construction Materials	
Filter housing	Polypropylene
Filter body	Polypropylene
Grooved disc	Polypropylene or Nylon
Inlet/outlet & drain valves	Body-ductile iron; Seat-EPDM; Disc-nylon 11 coated

Dimensional Drawings - Horizontal Modules:

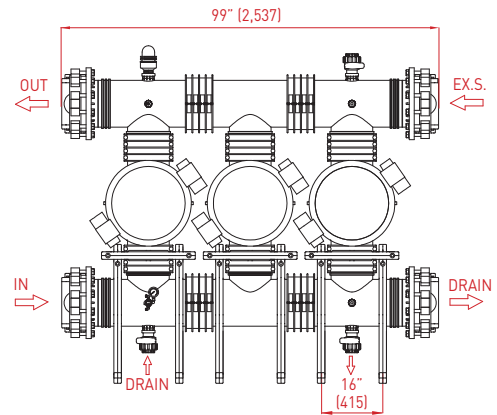
1 Module Unit



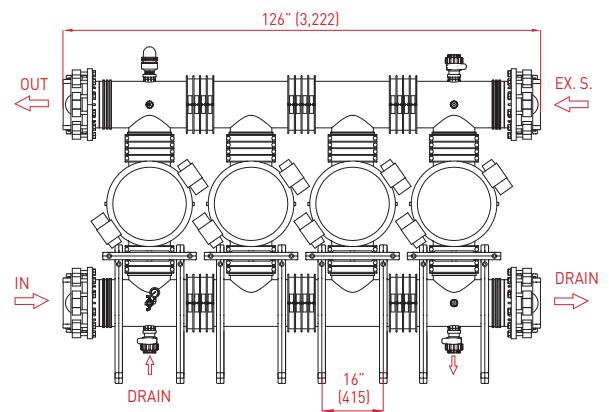
2 Module Unit



3 Module Unit

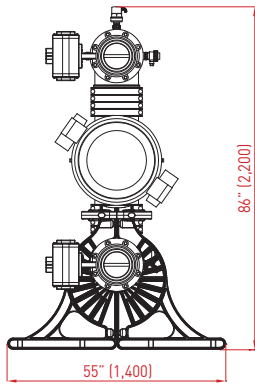


4 Module Unit

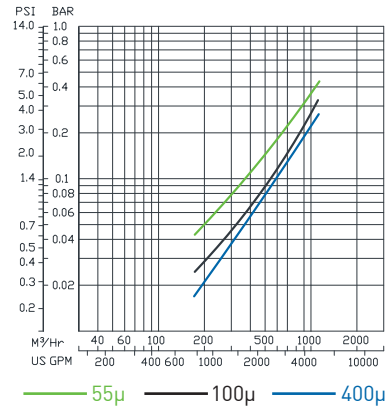


*Dim. in inch (mm)

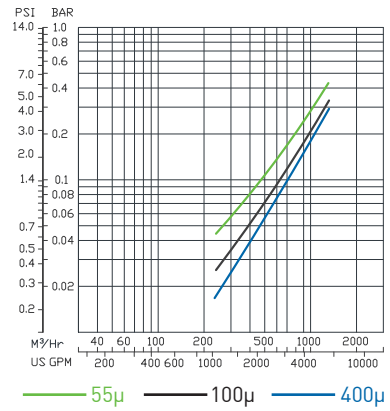
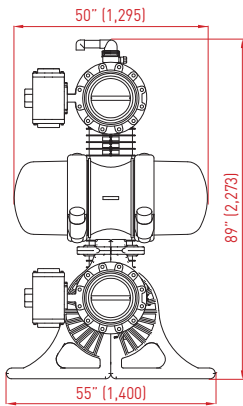
1 Module Unit



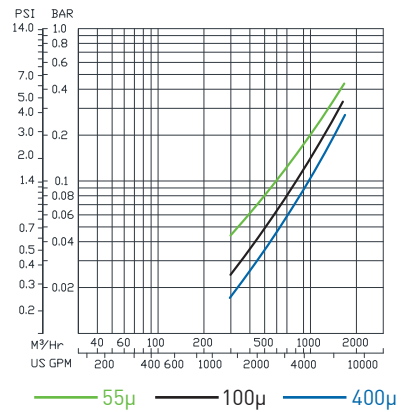
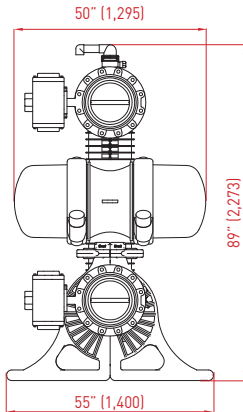
Pressure Loss Graphs in clean water



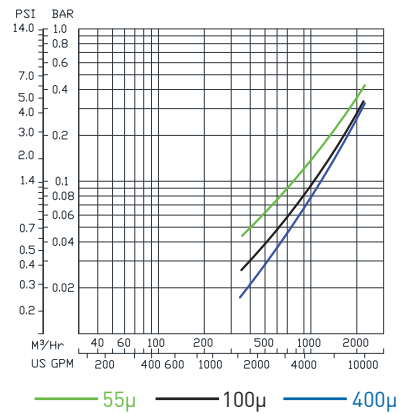
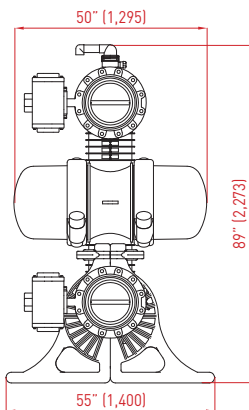
2 Module Unit



3 Module Unit



4 Module Unit



*Dim. in inch (mm)

*Head loss may change due to water quality and flow. Charts are for indication only.

Technical Specifications

Super Galaxy - Vertical Modules:

Filter Type		2 Module Units*	3 Module Units*	4 Module Units*
General Data				
Max. operating pressure ¹		90 psi (6 bar)		
Max. water temperature ¹		150°F (60°C)		
Min. backwash pressure**		36 psi (2.5 bar)		
Max. recommended flow rate ⁴	100μ	1,850 gpm (420 m ³ /h)	2,750 gpm (625 m ³ /h)	N/A
	55μ	1,410 gpm (320 m ³ /h)	2,115 gpm (480 m ³ /h)	2,815 gpm (640 m ³ /h)
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Filtration volume		2,578 in ³ (42,240 cm ³)	63,360 cm ³ (3,866 in ³)	5,155 in ³ (84,480 cm ³)
Backwash flow rate		1,410 gpm (320 m ³ /h)	2,115 gpm (480 m ³ /h)	2,815 gpm (640 m ³ /h)
Inlet/outlet diameter		12" (315 mm)		
Weight [empty]		1,630 lb (740 kg)	1,950 lb (885 kg)	2,270 lb (1,030 kg)

¹ Maximum operating pressure and temperature are interdependent and above values are for general reference only.

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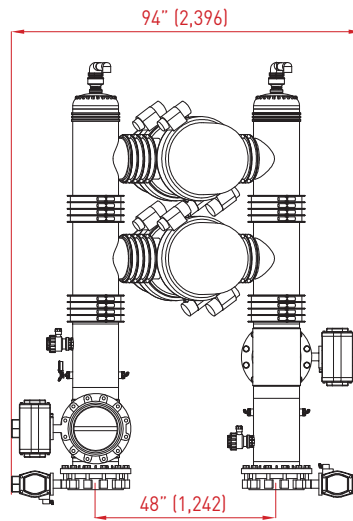
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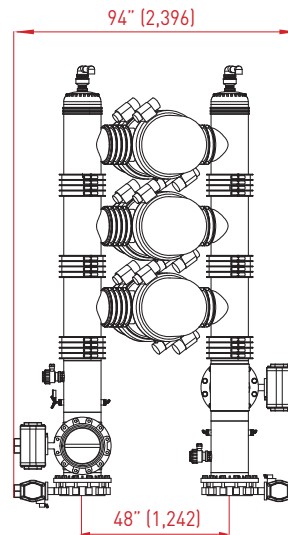
Backwash Data Per Module				
Valves (inlet/outlet & drain)	Bray series 30/31 butterfly valves 8"-12"			
Backwash cycle	15-20 sec			
Minimum flow for backwash	705 gpm (160 m ³ /h)	1,410 gpm (320 m ³ /h)	2,115 gpm (480 m ³ /h)	2,815 gpm (640 m ³ /h)
Backwash volume per backwash	176 gallons (667 liters)	352 gallons (1,334 liters)	529 gallons (2,001 liters)	705 gallons (2,667 liters)

Construction Materials	
Filter housing	Polypropylene
Filter body	Polypropylene
Grooved disc	Polypropylene or Nylon
Inlet/outlet & drain valves	Body-ductile iron; Seat-EPDM; Disc-nylon 11 coated

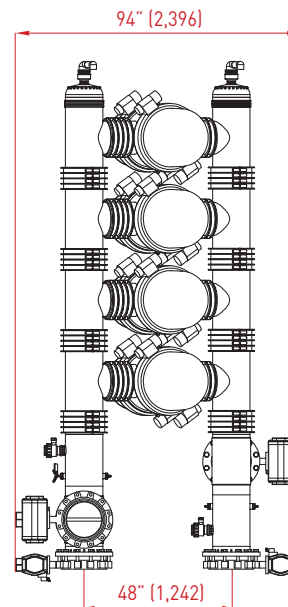
Dimensional Drawings - Vertical Modules: 2 Module Unit



3 Module Unit

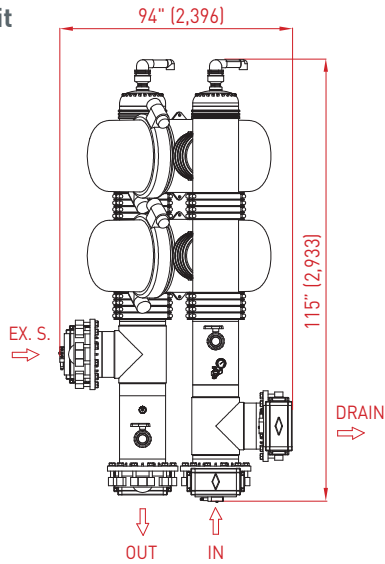


4 Module Unit

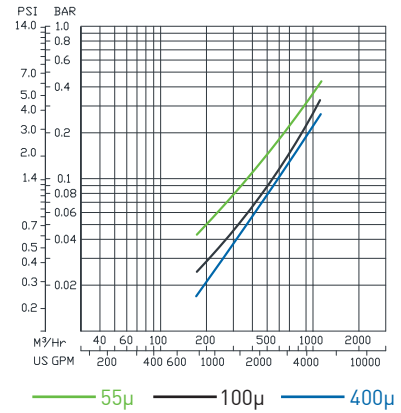


*Dim. in inch (mm)

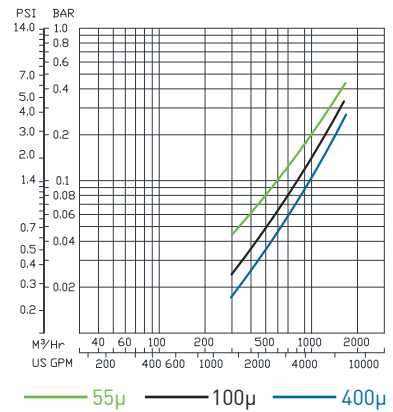
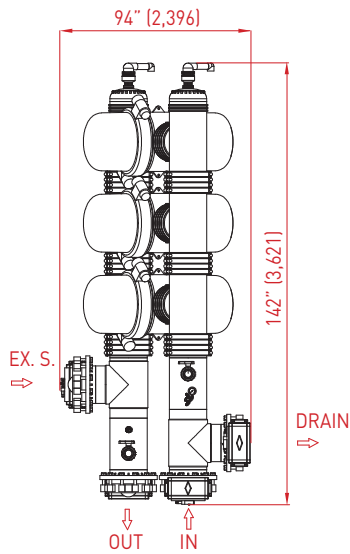
2 Module Unit



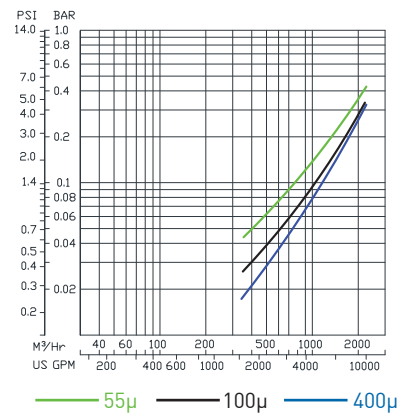
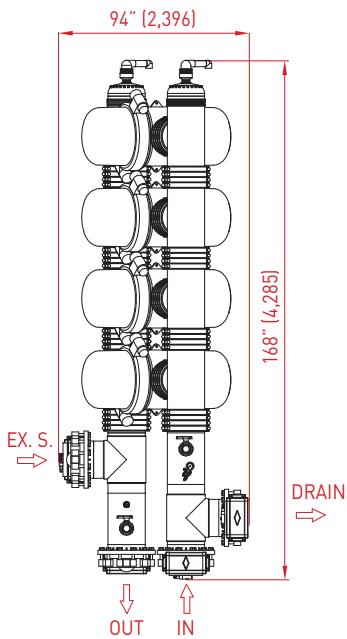
Pressure Loss Graphs in clean water



3 Module Unit



4 Module Unit



*Dim. in inch (mm)

*Head loss may change due to water quality and flow. Charts are for indication only.

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