4" Spin Klin™ Galaxy

High flow automatic self-cleaning disc filtration systems, offering fine filtration solutions

flow rates	filtration degrees	inlet/outlet connection	maximum operating pressure
200 - 2,000 m³/h (880 - 8,800 gpm)	20 - 400 micron	200 - 355 mm (8" - 14")	10 bar (145 psi)

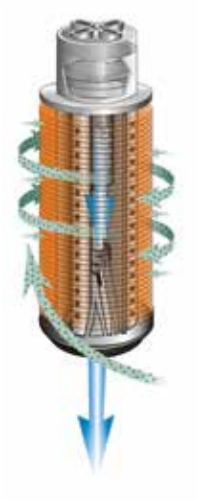
features:

- Innovative disc technology captures and retains large amounts of suspended solids
- Micron-precise depth filtration
- Short, automatic backwash cycle, with regulated water volume ensures water efficiency
- Long disc life eliminates frequent need for media replacement
- Compact and flexible design for small footprint installation
- Long-term operation with minimal maintenance
- Easy and simple operation

How the 4” Spin Klin™ Galaxy Filters Work

General

The 4” Spin Klin™ Galaxy series disc filters are modular, all polymeric and include a patented automatic self-cleaning backwash mechanism. The 4” Spin Klin™ Galaxy systems flow rate ranges from 200 - 2,000 m^3/h (880 - 8,800 gpm) with filtration degrees ranging from 20 – 400 micron and inlet/outlet diameters from 200-355 mm (8” – 14”).



The Filtration Process

The discs are stacked on the SpinKlin™ spine. During filtration, the discs are compressed by a pre-loaded spring and by the system differential pressure, forcing the water to pass through the grooved discs and the suspended solids are trapped on and within the stacked discs.

The Backwash Process

The backwash mode is triggered by system pressure differential or by an adjustable timer. The inlet valve shuts while the drain valve opens. During the backwash process, pressure is released and the tightening cylinder rises, releasing the compression on the discs. Tangential jets of filtered water are then forced through the nozzles positioned along the spine. The discs spin freely, loosening the trapped solids which are then flushed out. During the backwash cycle, each filter pod is backwashed sequentially, while the other pods continue to supply filtered water downstream.

Construction Materials	
Filter housing and lid	PP (Polypropylene)
Disc elements	PP (Polypropylene) or PA (Polyamide)
Backwash valves	RPA (Reinforced Polyamide)
Manifolds	PP (Polypropylene)
Seals	NBR or EPDM (Viton optional)
Control tubing	PE or PA

External Source Backwash Option

Each filter is backwashed sequentially, while the other filters continue to supply filtered water downstream. In each filter, the inlet and outlet valves automatically close, and the drain and external source valves automatically open. Pressurized water from the external source header enters the filter through its outlet port and backwashes it.

Galaxy Models:

- 4" Spin Klin™ Galaxy Batteries
- 4" Spin Klin™ Galaxy Batteries with External Source

4" Spin Klin™ Galaxy filter pod

Disc material type availability according to filtration degree:

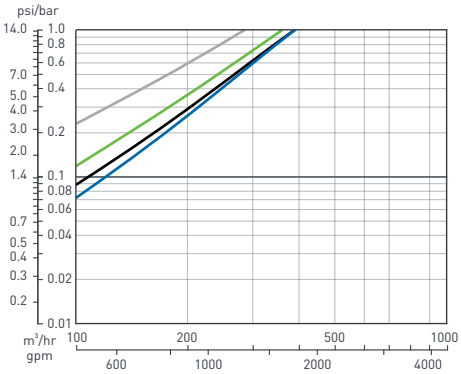
Color Code	Gray	Purple	Green	Brown	Black	Red	Yellow	Blue
Micron	20	40	55	70	100	130	200	400
PP Disc PA (Nylon) Disc	PP, PA	PP, PA	PP, PA	PP, PA	PP, PA	PP, PA	PP, PA	PP

4" Spin Klin™ Galaxy Batteries

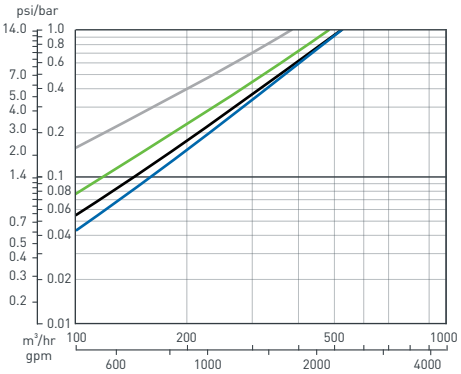
Head Loss Graphs (in clean water)

400µ 100µ 55µ 20µ

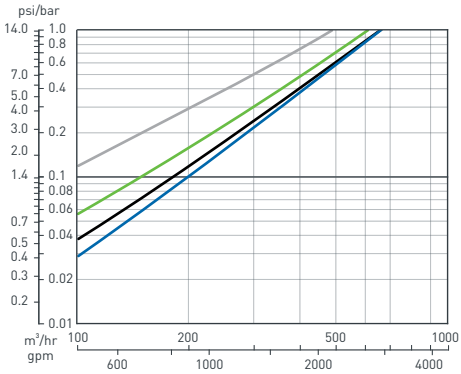
3 x 4" Spin Klin™ Galaxy Battery



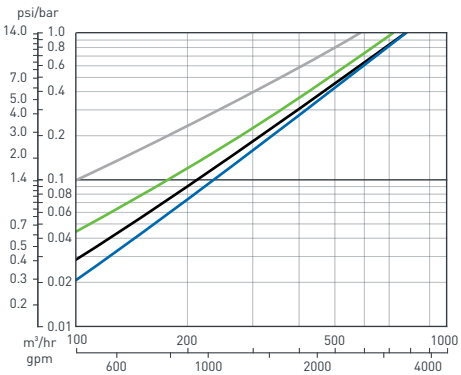
4 x 4" Spin Klin™ Galaxy Battery



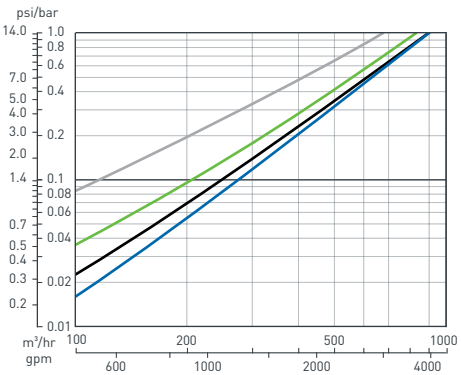
5 x 4" Spin Klin™ Galaxy Battery



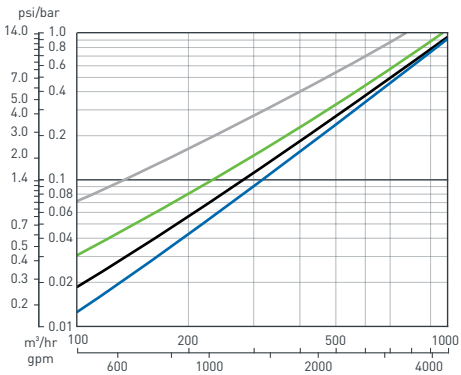
6 x 4" Spin Klin™ Galaxy Battery



7 x 4" Spin Klin™ Galaxy Battery



8 x 4" Spin Klin™ Galaxy Battery

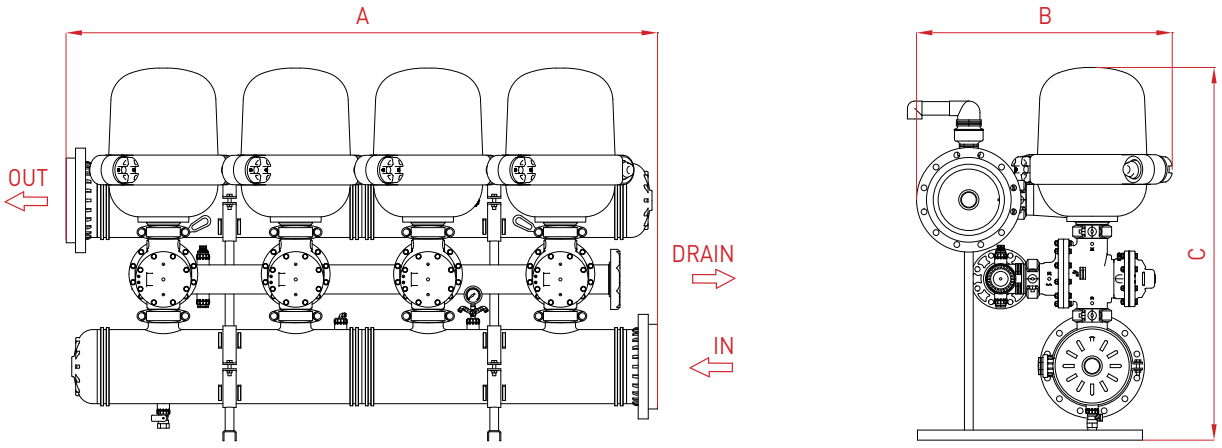


Filter Type		3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
General Data							
Max. operating pressure*		10 bar (145 psi)					
Min. backwash pressure	400-100µ	2.8 bar (40 psi)					
	55-20µ	4-5 bar (58 - 72psi)					
Maximum recommended flow rate	100µ	225 m^3/h (990 gpm)	300 m^3/h (1,320 gpm)	375 m^3/h (1,650 gpm)	450 m^3/h (1,980 gpm)	525 m^3/h (2,310 gpm)	600 m^3/h (2,642 gpm)
	55µ	150 m^3/h (660 gpm)	200 m^3/h (880 gpm)	250 m^3/h (1,101 gpm)	300 m^3/h (1,321 gpm)	350 m^3/h (1,541 gpm)	400 m^3/h (1,761 gpm)
	20µ	75 m^3/h (330 gpm)	100 m^3/h (440 gpm)	125 m^3/h (550 gpm)	150 m^3/h (660 gpm)	175 m^3/h (770 gpm)	225 m^3/h (990 gpm)
Available filtration degrees		400, 200, 130, 100, 70, 55, 40, 20 micron					
Filtration volume		17,219 cm^3 (1,051 in^3)	22,959 cm^3 (1,401 in^3)	28,698 cm^3 (1,751 in^3)	34,438 cm^3 (2,101 in^3)	40,177 cm^3 (2,451 in^3)	45,918 cm^3 (2,802 in^3)
Inlet/outlet diameter		200 mm (8")	280 mm (10")	280 mm (10")	315 mm (12")	315 mm (12")	355 mm (14")
Max. working temperature*		60°C (140°F)					
Dry weight standard		270 kg (594 lb)	350 kg (770 lb)	440 kg (968 lb)	530 kg (1,166 lb)	670 kg (1,447 lb)	770 kg (1,694 lb)

*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.

Backwash Data	
Drain connection	110 mm (4")
Flushing time	20 seconds
Min. flow for backwash	50 m^3/h (220 gpm)

Typical Installation Drawing



Dimensions		3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
A	Length	1,664 mm (65 1/2")	2,234 mm (87 15/16")	2,734mm (107 5/8")	3,234 mm (127 5/16")	3,734 mm (147")	4,234 mm (166 11/16")
B	Width	940 - 980 mm (35 7/16" - 38 9/16")					
C	Height	1,370 mm (53 15/16")		1,408 mm (55 7/16")		1,466 mm (57 23/32")	

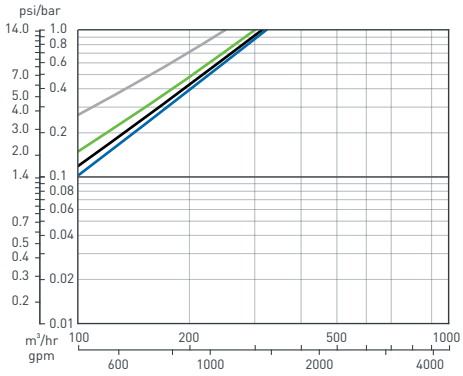
Note: All dimensions are for reference only. Certified drawings are available upon request.

4" Spin Klin™ Galaxy Batteries External Source

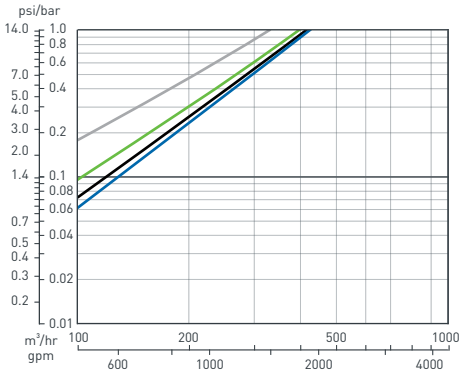
Head Loss Graphs (in clean water)

400µ 100µ 55µ 20µ

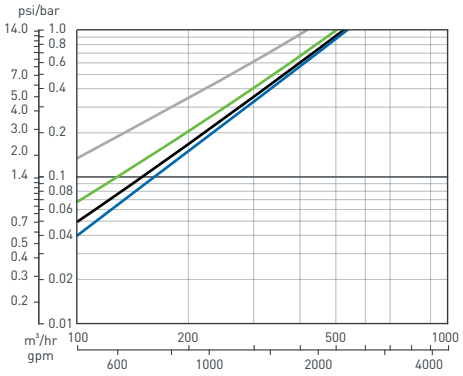
3 x 4" Spin Klin™ Galaxy Battery EX.S.



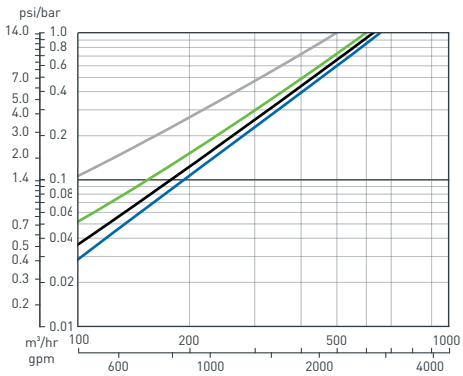
4 x 4" Spin Klin™ Galaxy Battery EX.S.



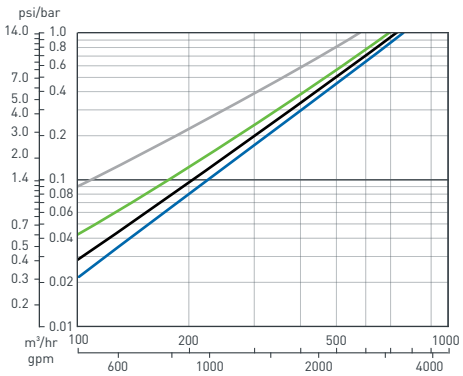
5 x 4" Spin Klin™ Galaxy Battery EX.S.



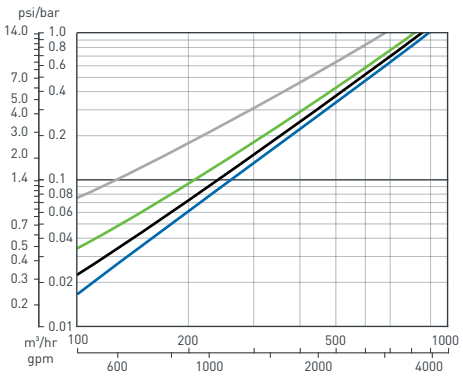
6 x 4" Spin Klin™ Galaxy Battery EX.S.



7 x 4" Spin Klin™ Galaxy Battery EX.S.



8 x 4" Spin Klin™ Galaxy Battery EX.S.

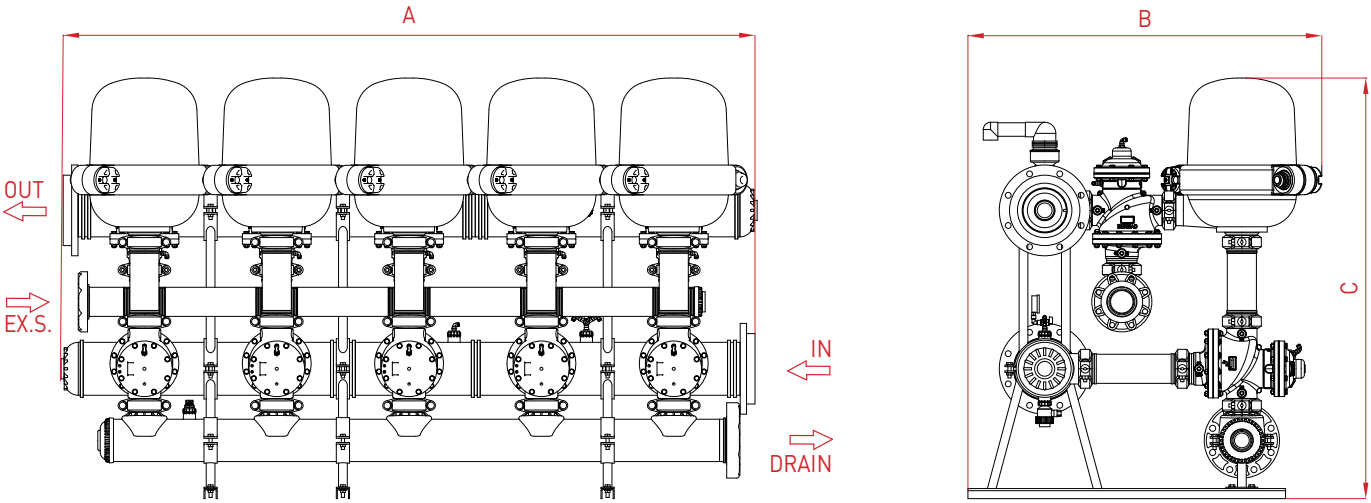


Filter Type		3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
General Data							
Max. operating pressure*		10 bar (145 psi)					
Min. backwash pressure	400-100µ	2.8 bar (40 psi)					
	55-20µ	4-5 bar (58 - 72 psi)					
Maximum recommended flow rate	100µ	225 m^3/h (990 gpm)	300 m^3/h (1,320 gpm)	375 m^3/h (1,650 gpm)	450 m^3/h (1,980 gpm)	525 m^3/h (2,310 gpm)	600 m^3/h (2,642 gpm)
	55µ	150 m^3/h (660 gpm)	200 m^3/h (880 gpm)	250 m^3/h (1,101 gpm)	300 m^3/h (1,321 gpm)	350 m^3/h (1,541 gpm)	400 m^3/h (1,761 gpm)
	20µ	75 m^3/h (330 gpm)	100 m^3/h (440 gpm)	125 m^3/h (550 gpm)	150 m^3/h (660 gpm)	175 m^3/h (770 gpm)	225 m^3/h (990 gpm)
Available filtration degrees		400, 200, 130, 100, 70, 55, 40, 20 micron					
Filtration volume		17,219 cm^3 (1,051 in^3)	22,959 cm^3 (1,401 in^3)	28,698 cm^3 (1,751 in^3)	34,438 cm^3 (2,101 in^3)	40,177 cm^3 (2,451 in^3)	45,918 cm^3 (2,802 in^3)
Inlet/outlet diameter		200 mm (8")	280 mm (10")	280 mm (10")	315 mm (12")	315 mm (12")	355 mm (14")
Max. working temperature*		60°C (140°F)					
Dry weight external source backwash		340 kg (748 lb)	440 kg (968 lb)	550 kg (1,210 lb)	650 kg (1,430 lb)	810 kg (1,782 lb)	920 kg (2,024 lb)

* 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.

Backwash Data	
Drain connection	110 mm (4")
Flushing time	20 seconds
Min. flow for backwash	50 m^3/h (220 gpm)

Typical Installation Drawing



Dimensions		3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
A	Length	1,664 mm (65 1/2")	2,234 mm (87 15/16")	2,734mm (107 5/8")	3,234 mm (127 5/16")	3,734 mm (147")	4,234 mm (166 11/16")
B	Width	1,352 mm (53 7/32")					
C	Height	1,590 mm (62 19/32")					

Note: All dimensions are for reference only. Certified drawings are available upon request.

Headquarters

Amiad Water Systems Ltd.
Web: www.amiad.com | E-mail: info@amiad.com

The Americas

USA
Amiad USA Inc.
Web: www.amiadusa.com | E-mail: infousa@amiad.com

Brazil
Amiad Sistemas de Água Ltda.
E-mail: infobrasil@amiad.com

Mexico
Amiad México SA DE CV,
Web: www.amiad.es | E-mail: infomexico@amiad.com
Irrigation office: E-mail: infomexico-irr@amiad.com

Asia

India
Amiad Filtration India Pvt Limited
Web: www.amiadindia.com | E-mail: info-india@amiad.com

China
Amiad China (Yixing Taixing Environtec Co., Ltd.)
Web: www.amiad.com.cn | E-mail: marketing@taixing.cc

South-East Asia
Filtration & Control Systems Pte. Ltd.
E-mail: info-singapore@amiad.com

Australia

Amiad Australia Pty Ltd.
Web: www.amiad.com.au | E-mail: sales@amiad.com

Europe

Amiad Water Systems Europe SAS
E-mail: info@amiad-europe.com

German branch office
E-mail: info@amiad.de

United Kingdom
Amiad Water Systems UK Limited
E-mail: info-uk@amiad.com

[ozglobalb2b.com]

amiad® WATER SYSTEMS ARKAL FILTOMAT AMIAD

www.amiad.com

910101-000565/05.2019