

4" Spin Klin™ Galaxy

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



flow rates

880 - 8,800 gpm
(200 - 2,000 m³/h)

filtration degrees

20 - 400 micron

inlet/outlet connection

8" - 14"
(200 - 355 mm)

maximum
operating pressure

145 psi
(10 bar)

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 880 - 8,800 gpm (200 - 2,000 m³/h) with filtration degrees ranging from 20 - 400 micron and inlet/outlet diameters from 8" - 14" (200 - 355 mm).

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

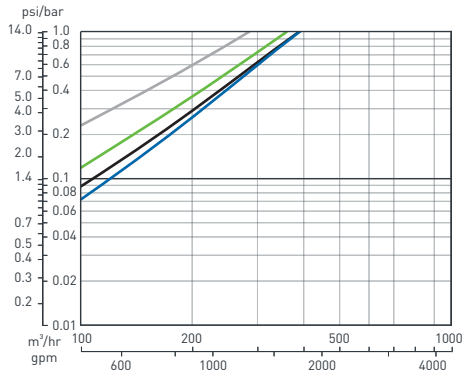
Filter housing and lid	PP (Polypropylene)
Disc elements	PP (Polypropylene) or PA (Polyamide)
Backwash valves	RPA (Reinforced Polyamide)
Manifolds	PP (Polypropylene)
Seals	NBR or EPDM (Viton optional)
Control tubing	PE or PA

4" Spin Klin™ Galaxy Batteries

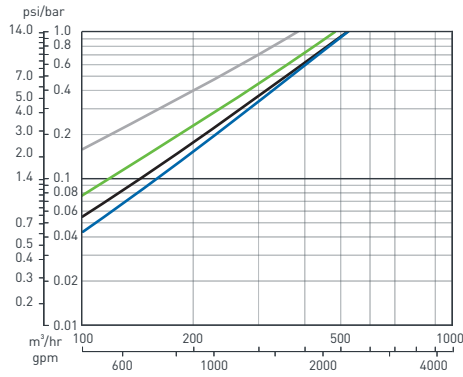


Head Loss Graphs (in clean water) — 400 μ — 100 μ — 55 μ — 20 μ

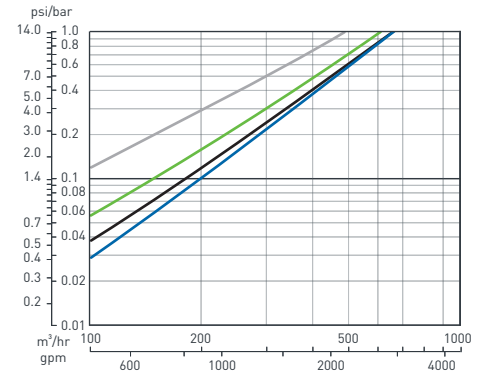
3 x 4" Spin Klin™ Galaxy Battery



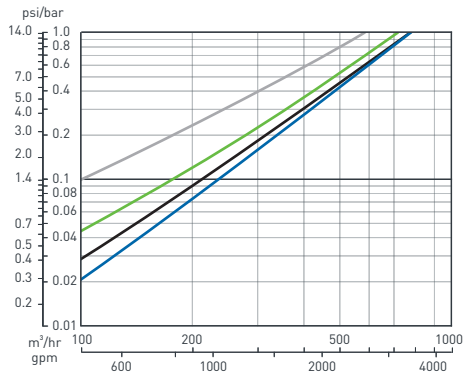
4 x 4" Spin Klin™ Galaxy Battery



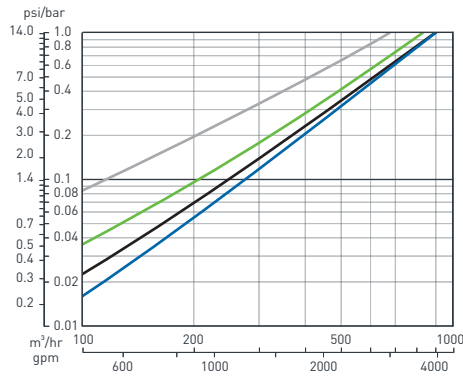
5 x 4" Spin Klin™ Galaxy Battery



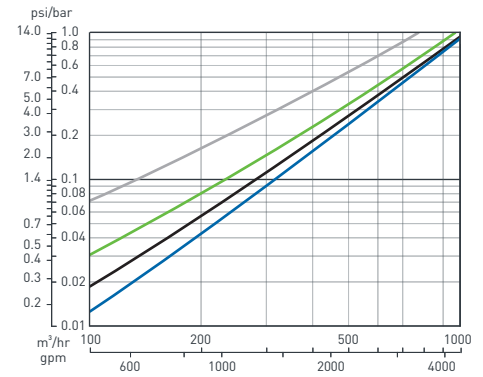
6 x 4" Spin Klin™ Galaxy Battery



7 x 4" Spin Klin™ Galaxy Battery



8 x 4" Spin Klin™ Galaxy Battery



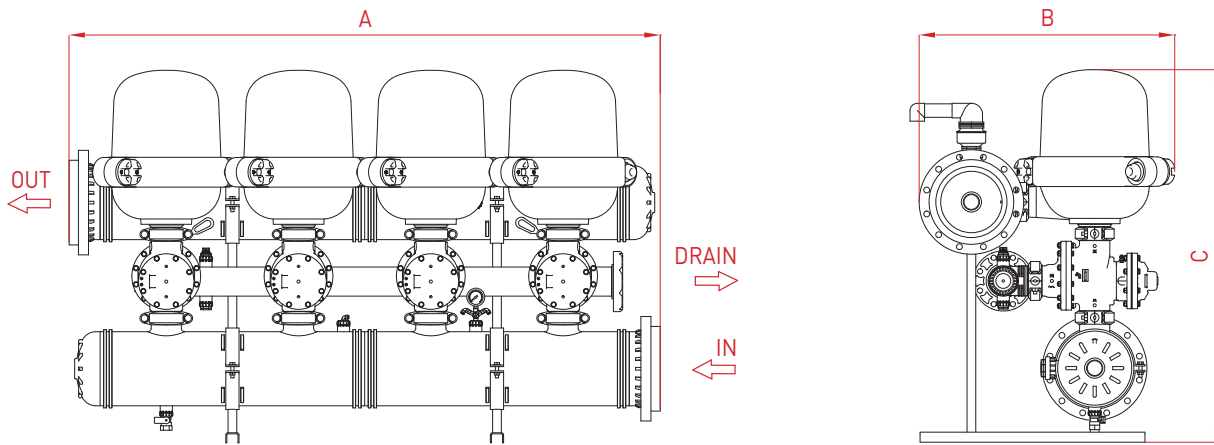
Filter Type	3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
-------------	----------------	----------------	----------------	----------------	----------------	----------------

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

* 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	4" (110 mm)
Flushing time	20 seconds
Min. flow for backwash	220 gpm (50 m ³ /h)

Typical Installation Drawing



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

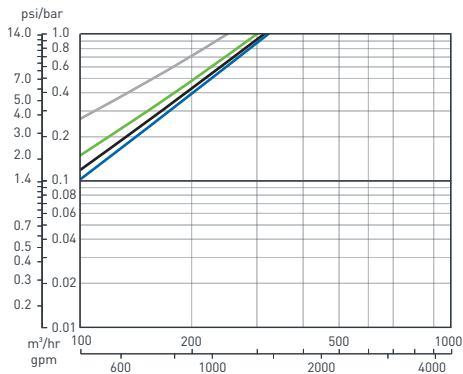
Note: All dimensions are for reference only. Certified drawings are available upon request.

4" Spin Klin™ Galaxy Batteries External Source

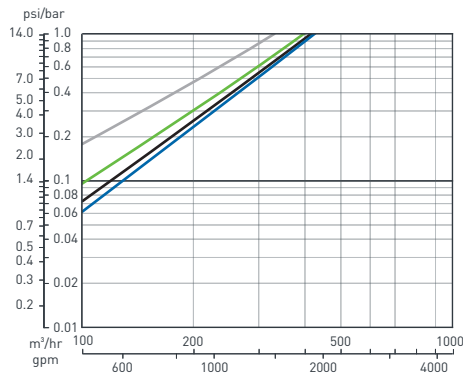


Head Loss Graphs (in clean water) — 400μ — 100μ — 55μ — 20μ

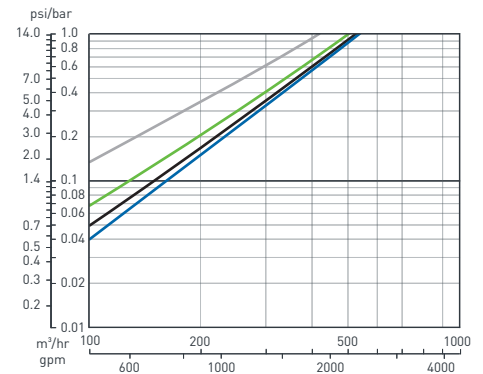
3 x 4" Spin Klin™ Galaxy Battery EX.S.



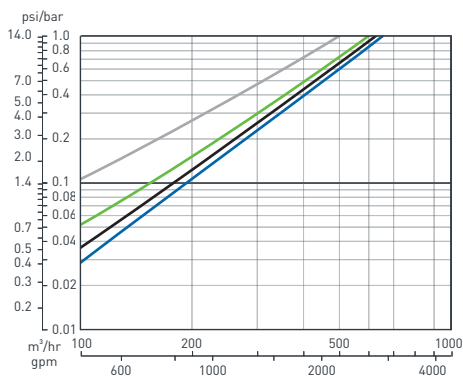
4 x 4" Spin Klin™ Galaxy Battery EX.S.



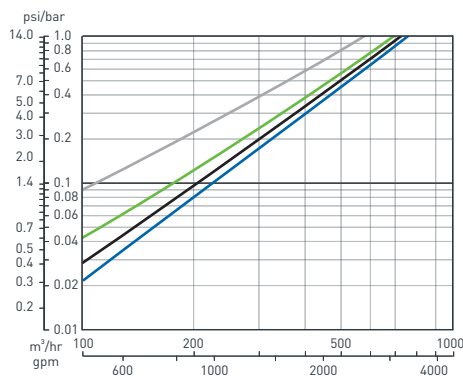
5 x 4" Spin Klin™ Galaxy Battery EX.S.



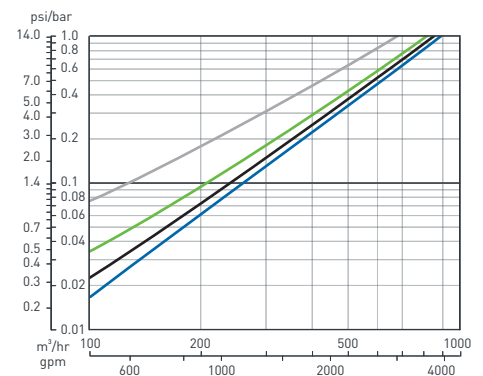
6 x 4" Spin Klin™ Galaxy Battery EX.S.



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



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



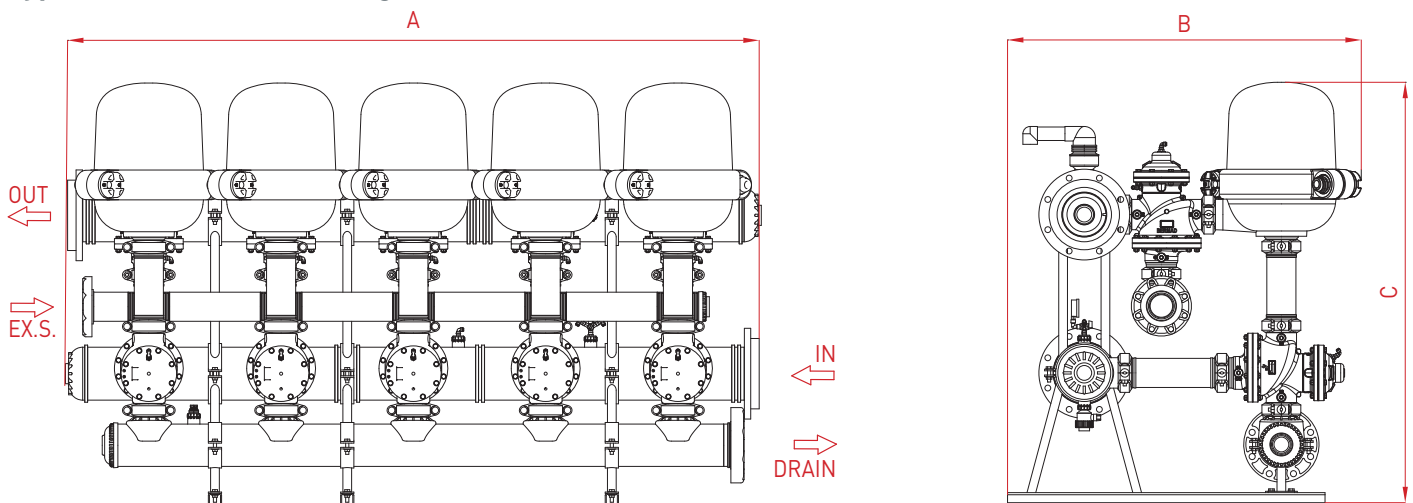
Filter Type	3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
-------------	----------------	----------------	----------------	----------------	----------------	----------------

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

* 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	4" (110 mm)
Flushing time	20 seconds
Min. flow for backwash	220 gpm (50 m ³ /h)

Typical Installation Drawing



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

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

[ozgjobalb2b.com]



www.amiad.com

910101-000790/07.2019

Copyright © 2019 Amiad Water Systems Ltd. All rights reserved. The contents of this catalogue including without limitation all information and materials, images, illustrations, designs, icons, photographs, graphical presentations, designs, literary works, data, drawings, slogans, phrases, names, trademarks, titles and any other such materials that appear in this catalogue (collectively, the "Contents") are the sole property of Amiad Water Systems Ltd. ("Amiad"). Amiad has sole and exclusive right, title and interest in the Contents, including any intellectual property rights, whether registered or not, and all know-how contained or embodied therein. You may not reproduce, publish, transmit, distribute, display, modify, create derivative works from, sell or participate in any sale of, or exploit in any way, in whole or in part, any of the Contents or the catalogue. Any use of the catalogue or the Contents, other than for personal use, requires the advanced written permission of Amiad.