

DESIGN FOR TOMORROW. **TODAY**



Spin Klin[™] **NOVA** | Modular disc filtration system

Designed for **high performance**



Spin Klin™ Nova has a breakthrough patented design and is the most advanced modular, polymeric disc technology filtration system.

The flexible and sustainable way to ensure high-quality, efficient and stable production processes, today and tomorrow.

Up to

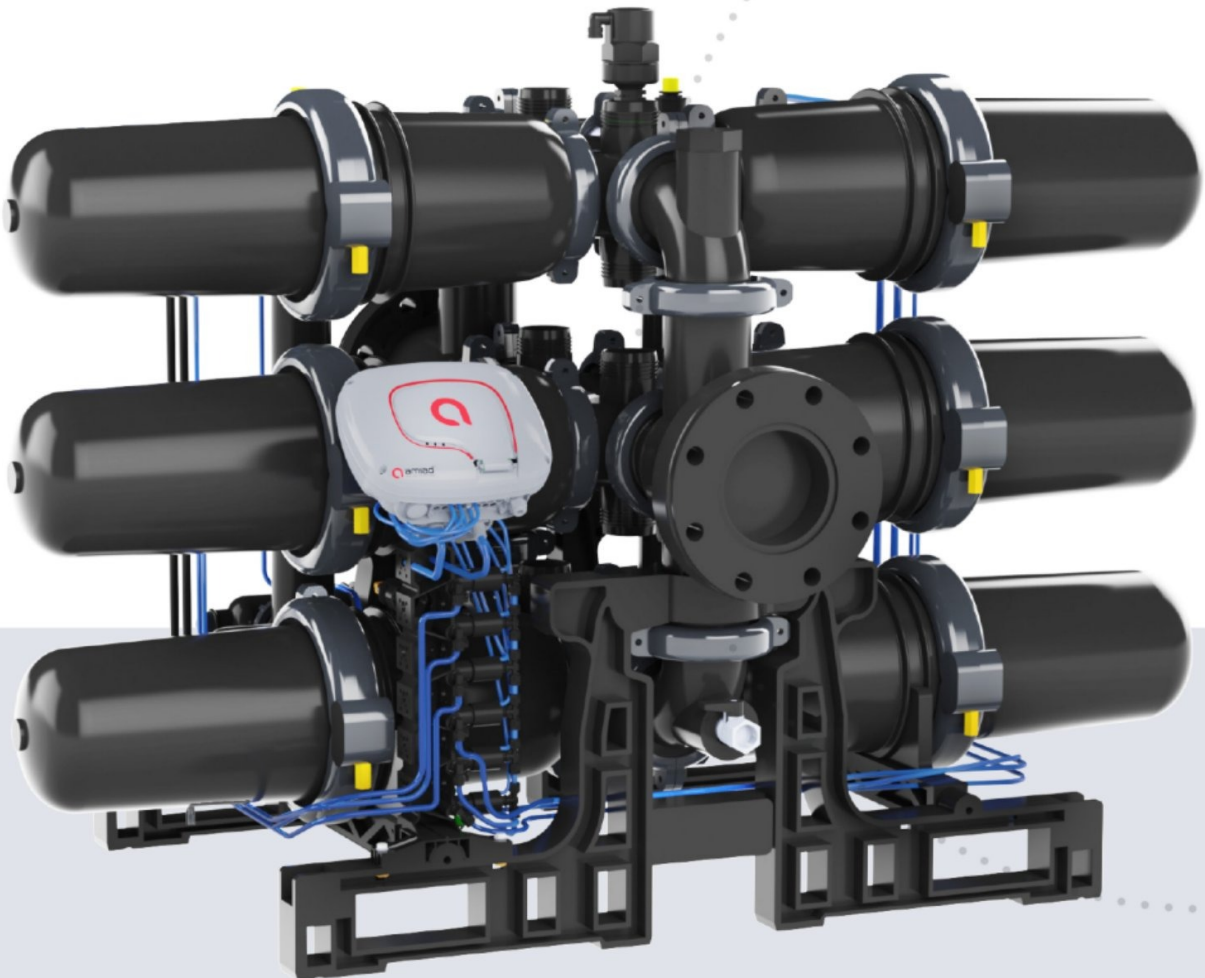
30%

increase in dirt-holding capacity

Up to

30%

longer filtration cycles*



* 2" 100-micron discs, compared to other disc filters

Spin Klin™ **NOVA** offers a range of features for excellent filtration results

LOW ENERGY & WATER CONSUMPTION

- Up to 40% lower head loss*
- Saves up to 30% flushing water*, with less flushing cycles and high recovery ability

FLEXIBILITY & MODULARITY

- Triples filtration area by replacing 2" with 4" spines
- Multiple backwash system configurations
- Stackable design for optimized footprint

CORROSION RESISTANT

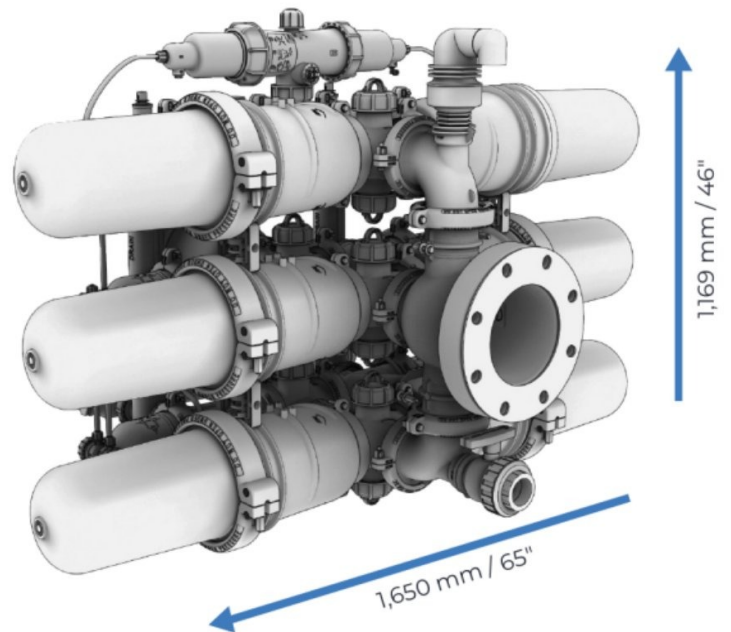
- Best for corrosive applications and environments
- Polymeric construction design for up to 10 bar/145 psi
- Incorporates an integral polymeric flushing valve

* 2" 100-micron discs, compared to other disc filters

Spin Klin™ NOVA: MODULARITY AT ITS BEST

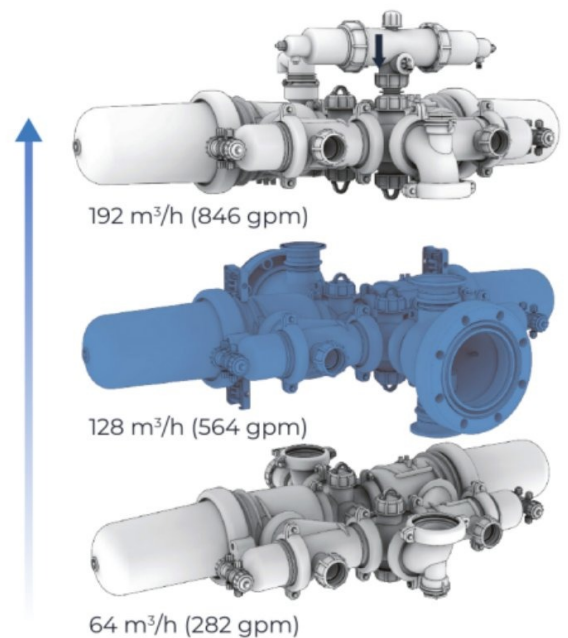
COMPACT DESIGN

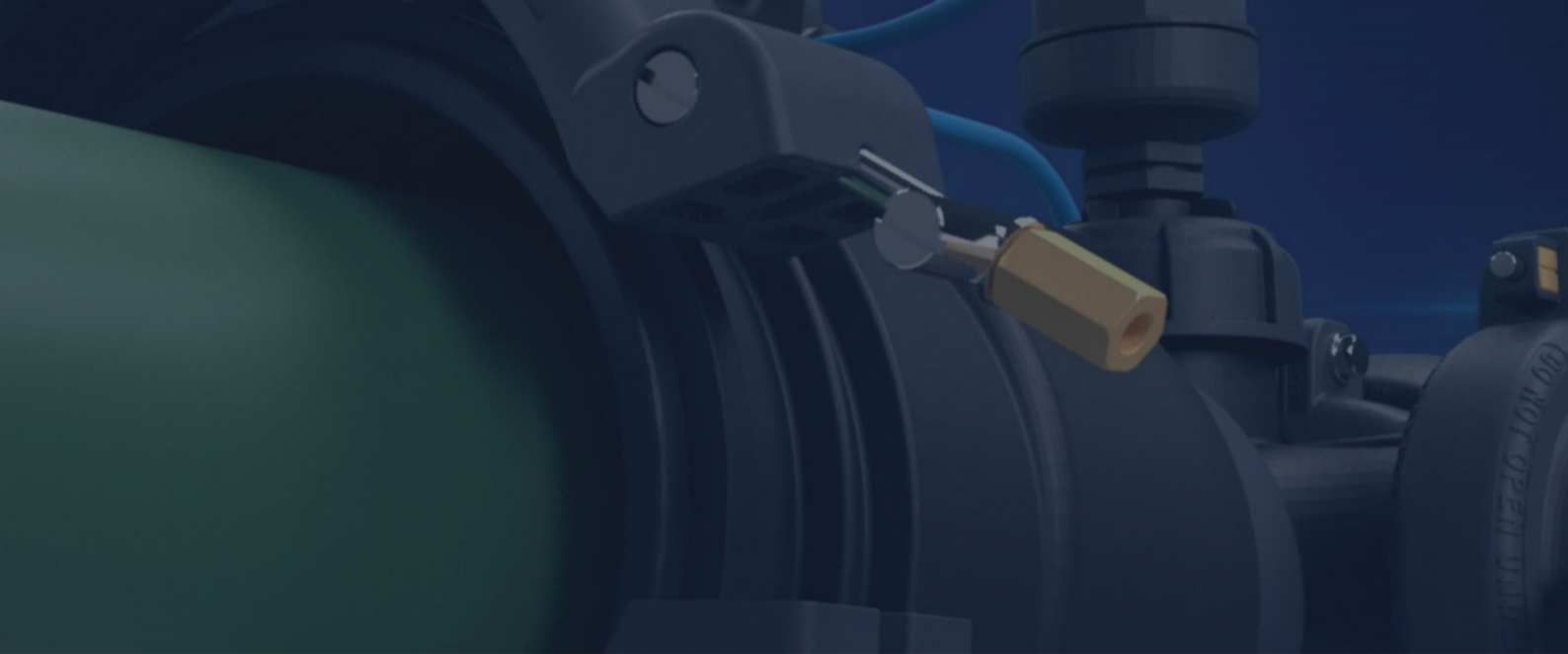
Up to 50% reduction in size



SCALABILITY

Easily increase the flow rate without increasing the footprint by adding **Single, Dual** or **Trio** units

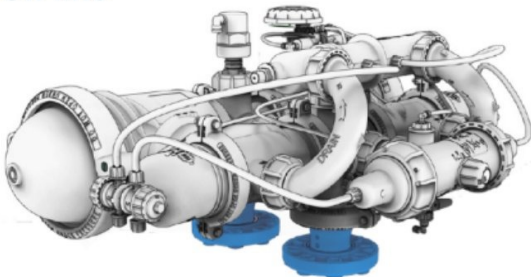




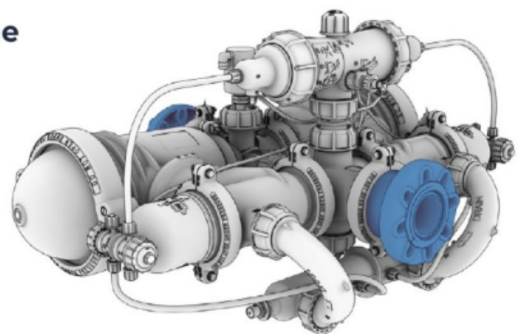
FLEXIBLE

Inlet and outlet ports are adaptable for **on-line or in-line configurations**

On-line

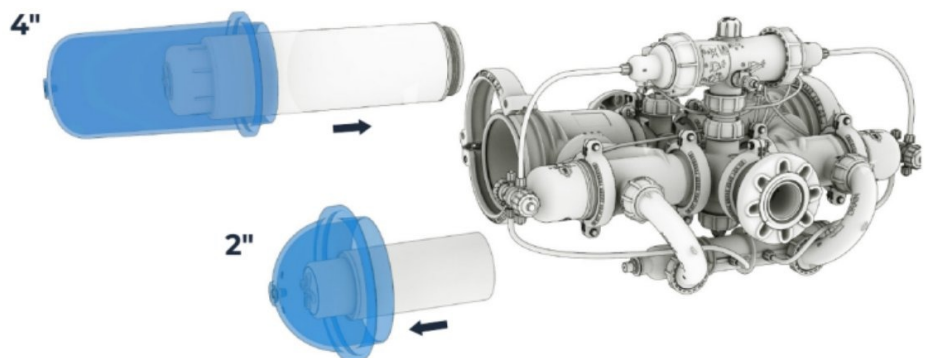


In-line



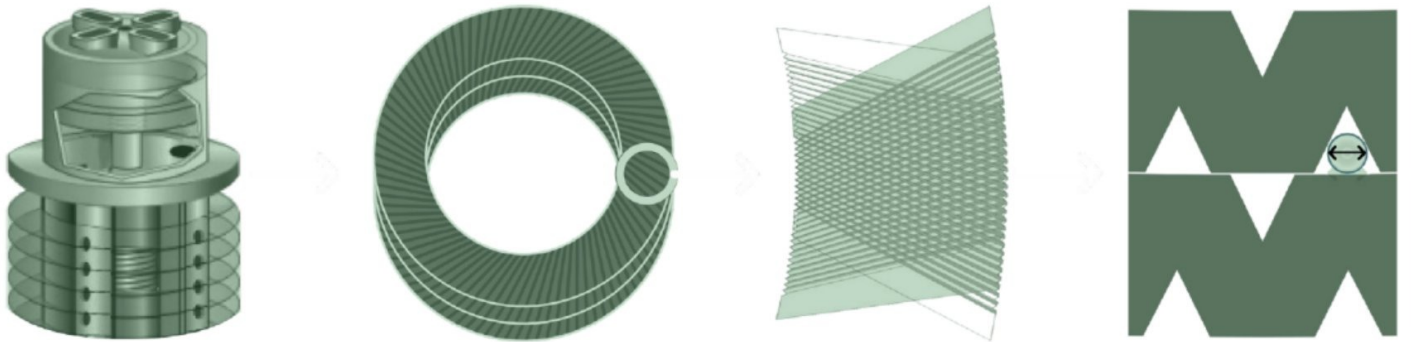
EASILY UPGRADED

Triple the filtration area by replacing 2" spine with 4" spine



The unique Spin Klin™ disc technology

Polymeric multi-pass discs, diagonally grooved from both sides in opposite directions. The discs are stacked and compressed on a specially designed spine, forming a matrix of consecutive crossing points which trap the particles, creating a depth filtration element.



Technology **Benefits**



High-quality filtration
efficiency



Efficient backwash
process with minimum
water consumption



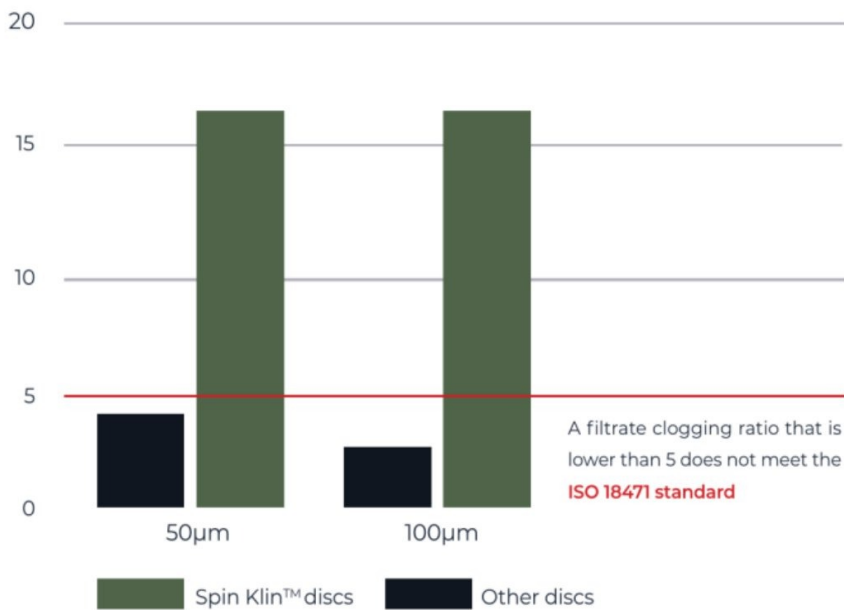
Longer filtration
cycles due to higher
dirt-holding capacity



Proven performance

Amiad uses the world recognized ISO 18471 as its standard test to verify its discs' filtration degree, creating a direct correlation between filtration degree declaration and the filters' actual performance.

Filtrate clogging ratio Spin Klin™ vs. other discs



This graph shows the inlet/outlet clogging time ratio of the Spin Klin™ discs compared to other discs, in tests performed with 50 & 100 micron discs.



OPTIMIZATION IS THE KEY TO SUCCESS

Now you can control your Spin Klin™ Nova system remotely with the ADI-X controller.

The ADI-X controller is Amiad's latest innovation for communicating information in real-time and is the only cloud-based solution of its kind.

Optimize performance. Optimize your life.

GET REAL-TIME INFORMATION

Receive continuous data

Historical data log including flushes, pressure, and peripheral sensors (if applicable).

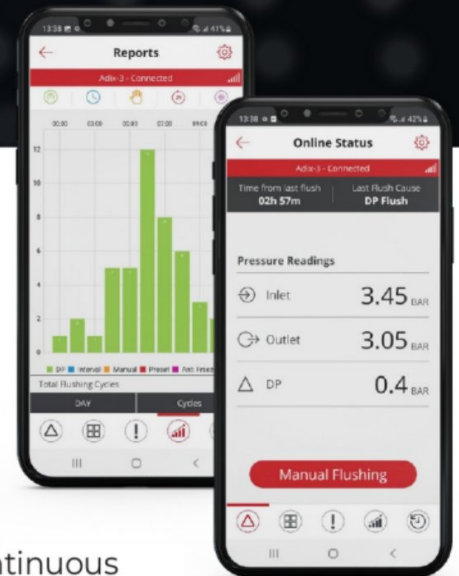
Get real-time alerts

Notifications of flushing mode changes (freezing protection, continuous flushing), power source status, pressure thresholds and more.

CONTROL YOUR FILTER

The ADI-X interface with its dedicated app gives you full control of your filter from anywhere, anytime.

Remotely tune operational settings and improve performance, based on water and environmental changes.





OPTIMIZE YOUR PERFORMANCE FOR AN OPTIMAL LIFE



Maximize your water savings
by minimizing flushes



Avoid system breakdowns
by planning preventive maintenance

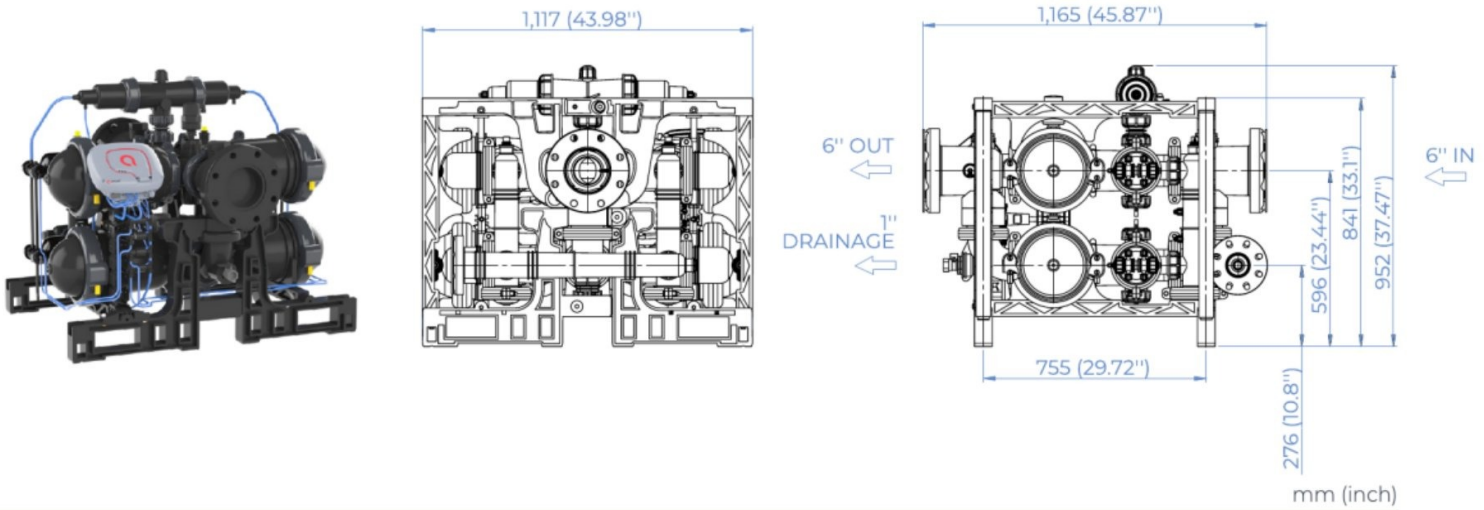


Simplify forecast planning
with trends analytics

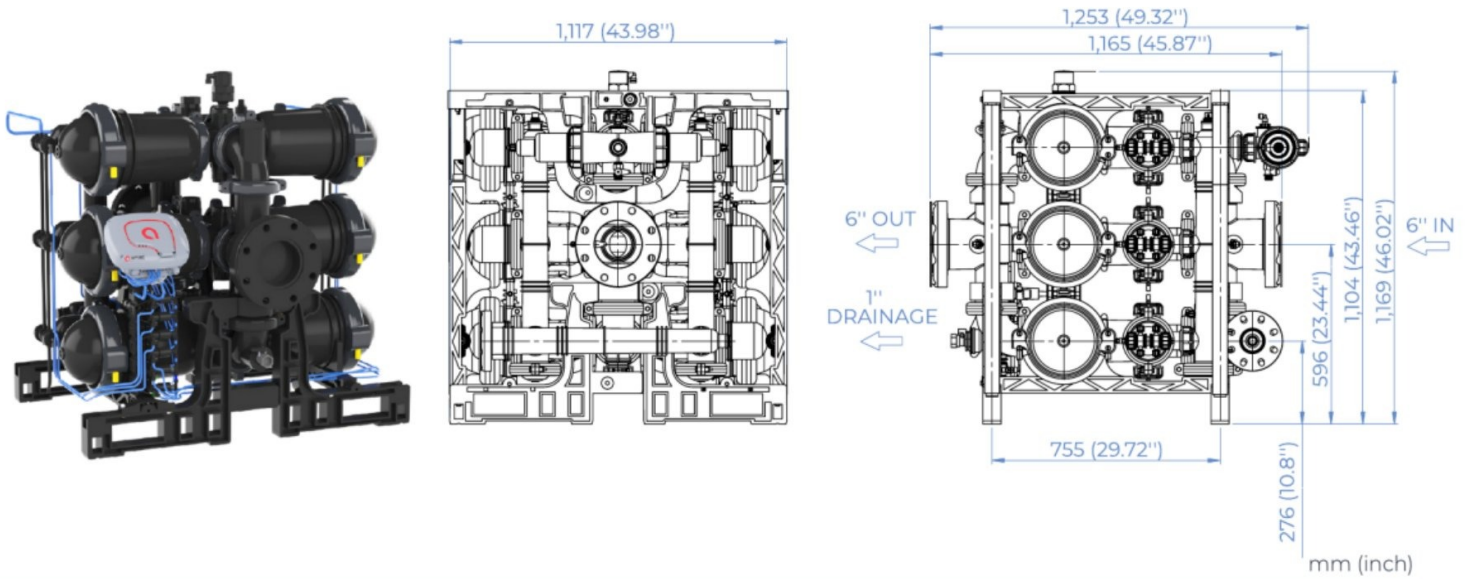


Maximize efficiency
due to less downtime

Spin Klin™ Nova Dual

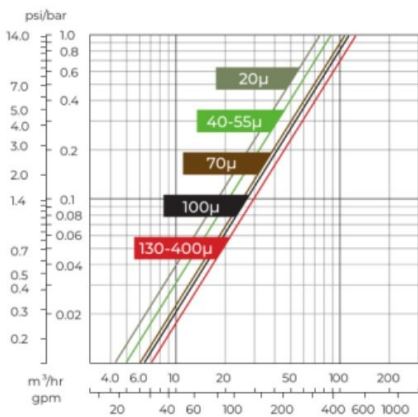


Spin Klin™ Nova Trio

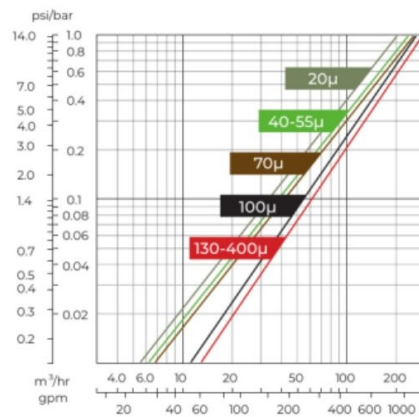


Head Loss Graph (in clean water)

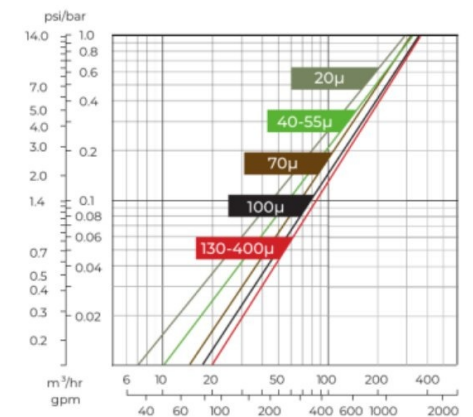
Nova Single



Nova Dual



Nova Trio

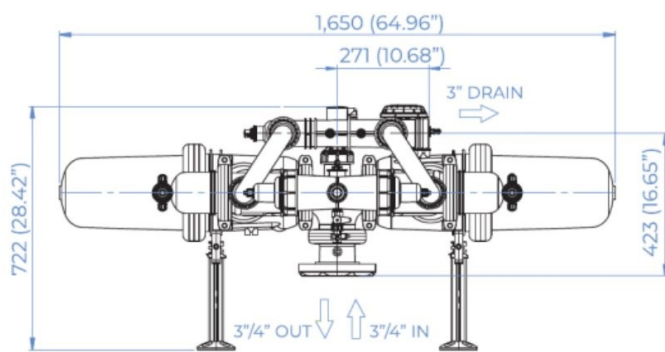


NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.

Spin Klin™ Nova Plus Single

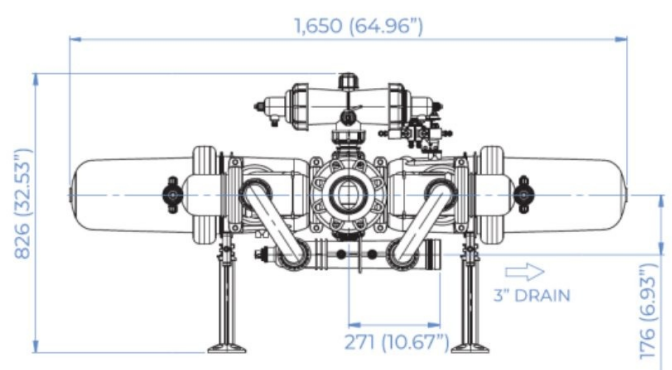


On-line



mm (inch)

In-line



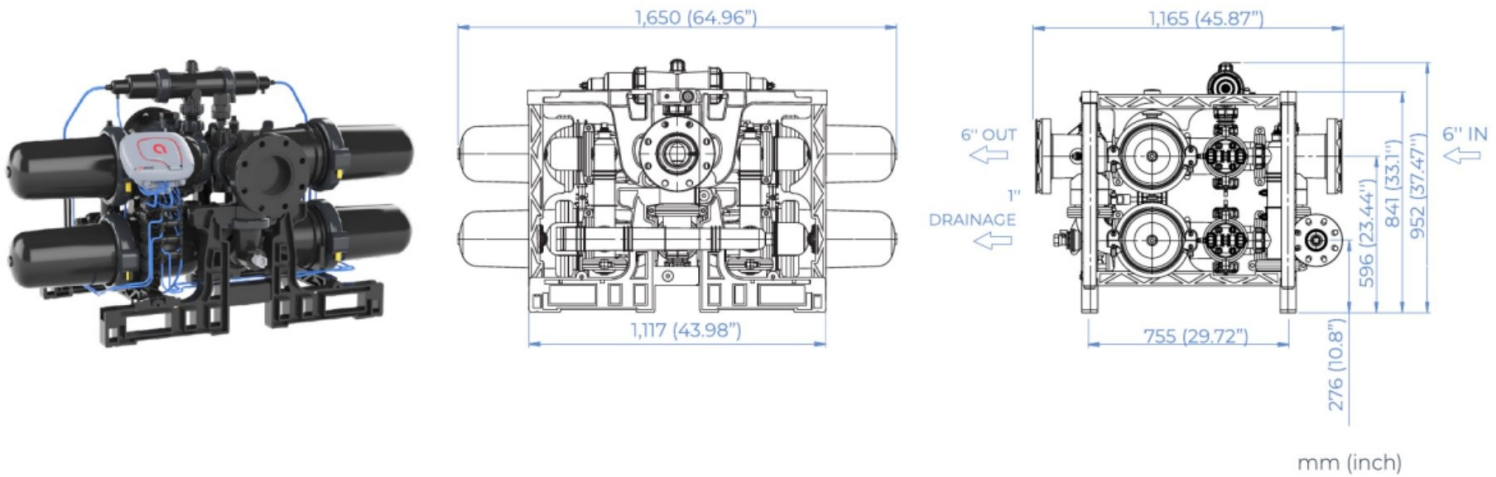
Flow rate (55 micron)

		3"-4" Spin Klin™ Nova Plus Single		6" Spin Klin™ Nova Plus Dual		8" Spin Klin™ Nova Plus Trio	
		m ³ /h	gpm	m ³ /h	gpm	m ³ /h	gpm
Water Quality	VERY GOOD	64	282	128	564	192	846
	GOOD	60	264	120	528	180	792
	AVERAGE	54	238	108	476	162	714
	POOR	48	211	96	422	144	633
	VERY POOR	42	185	84	370	126	555

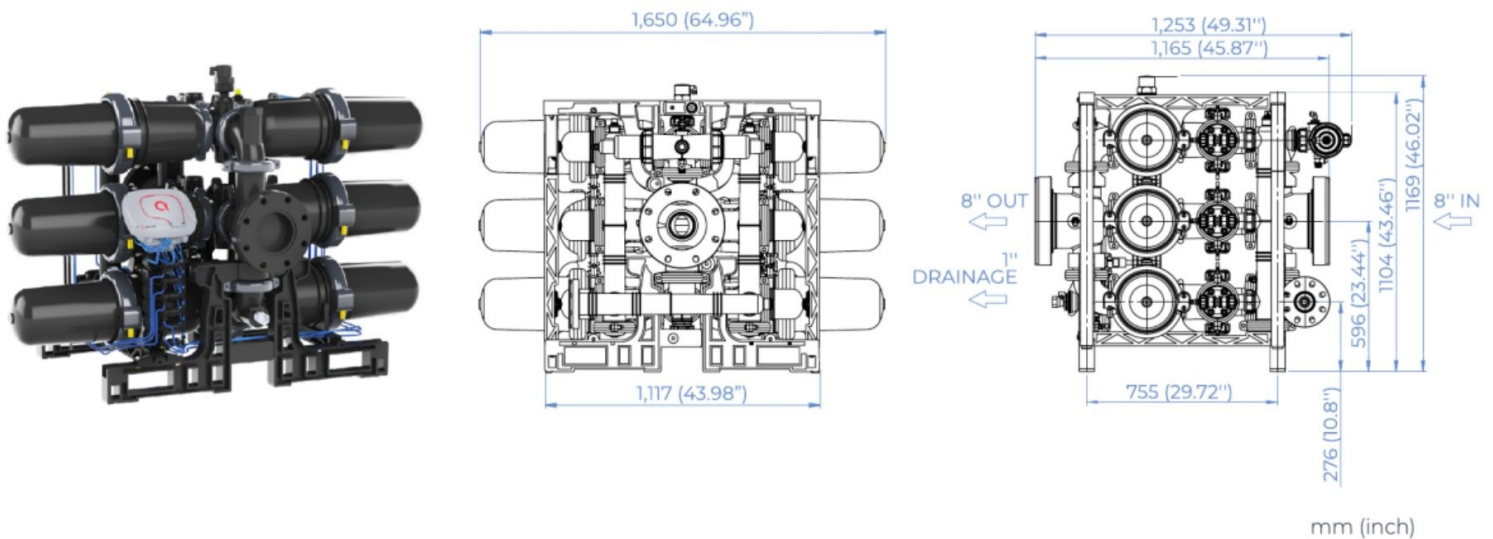
Availability of disc type and micron size

Micron	10	20	40	55	70	100	130	200	400
4" Discs	-	PP	PP, PA	PP, PA	PP, PA	PP	PP	PP	PP

Spin Klin™ Nova Plus Dual

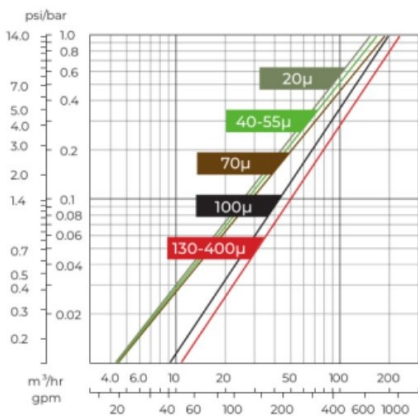


Spin Klin™ Nova Plus Trio

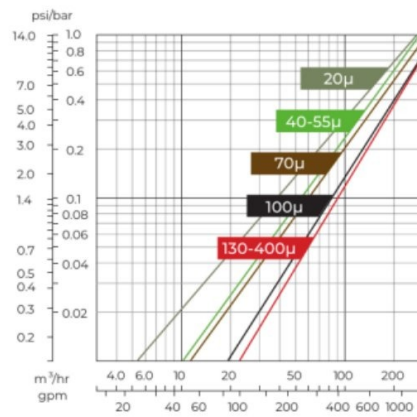


Head Loss Graph (in clean water)

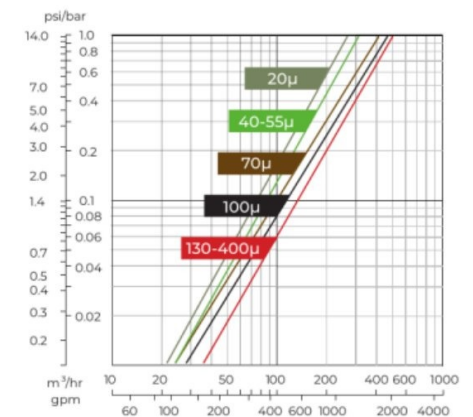
Nova Plus Single



Nova Plus Dual



Nova Plus Trio



NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.

Technical Specifications

Spin Klin™ Nova

Filter type	3"-4" Spin Klin™ Nova Single	4" Spin Klin™ Nova Dual	6" Spin Klin™ Nova Trio
General data			
Max. flow rate* (55µ)	20 m ³ /h (88 gpm)	40 m ³ /h (176 gpm)	60 m ³ /h (264 gpm)
Min. operating pressure when cleaning	1.5-5 bar (22-72.5 psi) depending on filtration degree		
Max. operating pressure**	10 bar (145 psi)		
Operating temperature**	5-60°C		
Filtration volume	2,298 cm ³ (140.2 in ³)	4,592 cm ³ (280.2 in ³)	6,888 cm ³ (420.3 in ³)
Filtration area	1,760 cm ² (272 in ²)	3,520 cm ² (544 in ²)	5,280 cm ² (816 in ²)
Inlet/Outlet diameter	3"-4" (80-100 mm) Grooved coupling / Universal flange	4" (100 mm) Grooved coupling / Universal flange	6" (150 mm) Universal flange
Weight (Empty)	54 kg (118 lb)	115 kg (253 lb)	156 kg (344 lb)

* Consult Amiad for optimum flow depending on filtration degree and water quality.

** Max. 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.

Electronic control: ADI-P, single units only	
Control power supply	4 x AA type 1.5V batteries / External 7-14V DC , 110/220V (50/60 Hz)
Solenoid operation data	9-12V DC latching solenoid
DP switch	Integral sensors

Electronic control: ADI-X	
Control power supply	4 x D type 1.5V batteries / External 7-14 VDC, 110/220V (50/60 Hz)
Solenoid operation data	9-12 V DC latching solenoid
DP switch	Integral sensors

Flushing data (at 1.5 bar, 22 psi)	
Backwash valve	3" (80 mm) Grooved coupling
Flushing time	15-20 sec
Min. reject water volume per flush cycle	36 liters (9.5 gallons)
Flushing flow rate	7.2-11 m ³ /h (44-48 gpm) depending on pressure

Construction materials	
Filter housing and lid	RPA (Reinforced Polyamide)
Discs	PP (Polypropylene) or PA (Polyamide)
Cleaning mechanism	All-polymeric
Backwash valve	All-polymeric
Seals	EPDM

When the pressure on downstream is over 6 bar during backwash, installing an orifice valve in the drain manifold is recommended to prevent damage to the Spin Klin™ spines.

Spin Klin™ Nova Plus

General data	3"-4" Spin Klin™ Nova Plus Single	6" Spin Klin™ Nova Plus Dual	8" Spin Klin™ Nova Plus Trio
General data			
Max. flow rate (55μ)*	64 m ³ /h (282 gpm)	128 m ³ /h (564 gpm)	192 m ³ /h (846 gpm)
Min. operating pressure when cleaning	1.5-5 bar (22-72.5 psi) depending on filtration degree		
Max. operating pressure**	10 bar (145 psi)		
Operating temperature**	5-60°C		
Filtration volume	6,284 cm ³ (383.5 in ³)	12,560 cm ³ (766.4 in ³)	18,852 cm ³ (1150.4 in ³)
Filtration area	5,240 cm ² (383 in ²)	10,480 cm ² (1,624 in ²)	15,720 cm ² (2,437 in ²)
Inlet/Outlet diameter	3"-4" (80-100 mm) Grooved coupling / Universal flange	6" (150 mm) Universal flange	8" (200 mm) Universal flange
Weight (Empty)	57 kg (126 lb)	127 kg (279 lb)	182 kg (401 lb)

* Consult Amiad for optimum flow depending on filtration degree and water quality.

** Max. 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.

Electronic control: ADI-P, single units only	
Control power supply	4 x AA type 1.5V batteries / External 7-14V DC, 110/220V (50/60 Hz)
Solenoid operation data	9-12 V DC latching solenoid
DP switch	Integral sensors

Electronic control: ADI-X	
Control power supply	4 x D type 1.5V batteries / External 7-14 VDC, 110/220V (50/60 Hz)
Solenoid operation data	9-12 V DC latching solenoid
DP switch	Integral sensors

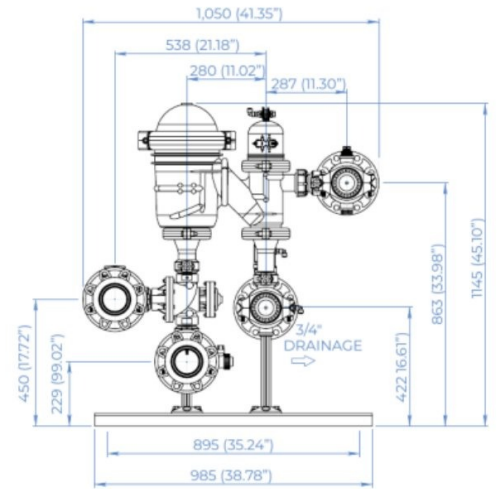
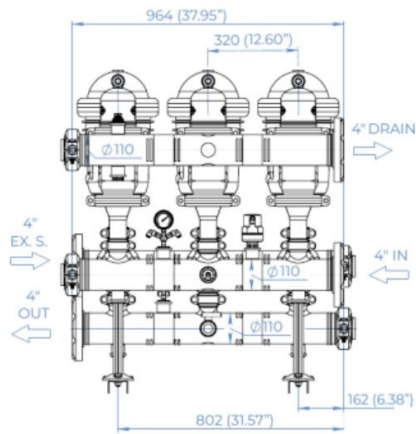
Flushing data (at 1.5 bar, 22 psi)	
Backwash valve	3" (80 mm) Grooved coupling
Flushing time	15-20 sec
Min. reject water volume per flush cycle	65 liters (17.2 gallons)
Flushing flow rate	13-25 m ³ /h (57.2-110 gpm) depending on pressure

Construction materials	
Filter housing and lid	RPA (Reinforced Polyamide)
Discs	PP (Polypropylene) or PA (Polyamide)
Cleaning mechanism	All-polymeric
Backwash valve	All-polymeric
Seals	EPDM

When the pressure on downstream is over 6 bar during backwash, installing an orifice valve in the drain manifold is recommended to prevent damage to the Spin Klin™ spines.

Spin Klin™ Nova External Source

One-wing



mm (inch)

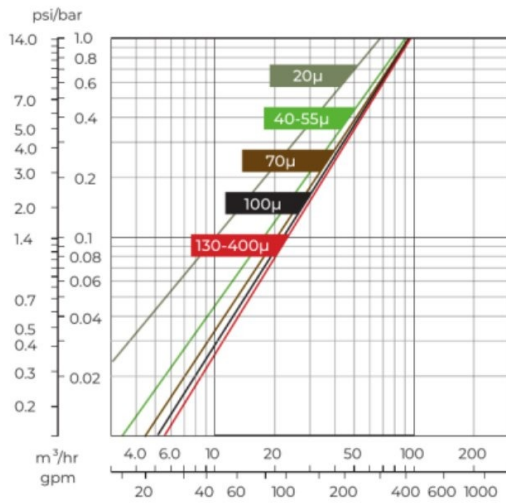
Technical Specifications

Filter type		3 unit battery	4 unit battery	5 unit battery	6 unit battery
General data					
Max. operating pressure		10 bar (145 psi)			
Min. operating pressure		1 bar (14.5 psi)			
Max. recommended flow rate	100µ	42 m ³ /h (185 gpm)	56 m ³ /h (246 gpm)	70 m ³ /h (308 gpm)	84 m ³ /h (370 gpm)
	55µ	30 m ³ /h (132 gpm)	40 m ³ /h (176 gpm)	50 m ³ /h (220 gpm)	60 m ³ /h (264 gpm)
	20µ	10 m ³ /h (44 gpm)	15 m ³ /h (66 gpm)	25 m ³ /h (110 gpm)	30 m ³ /h (132 gpm)
Available filtration degrees		400, 200, 130, 100, 55, 40, 20, 10 micron			
Filtration volume		3,444 cm ³ (210 in ³)	4,592 cm ³ (280 in ³)	5,740 cm ³ (350 in ³)	6,888 cm ³ (420 in ³)
Filtration area		2,640 cm ² (409 in ²)	3,520 cm ² (546 in ²)	4,400 cm ² (683 in ²)	5,280 cm ² (818 in ²)
Inlet/Outlet diameter		100 mm (4")			
Max. operating temperature		60°C (140°F)			
Dry weight external source system		86 kg (190 lb)	107 kg (236 lb)	128 kg (282 lb)	150 kg (331 lb)

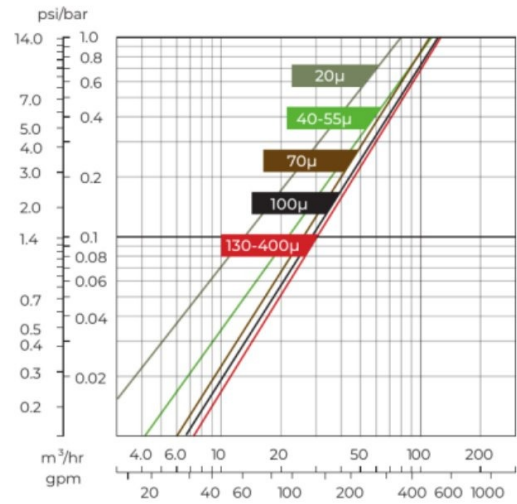
Backwash data	
Valve drain port	100 mm (4")
Flushing time (per one pod)	15-20 seconds
Min. flow for backwash	10-11 m ³ /h (44-49 gpm)

Head Loss Graph (in clean water)

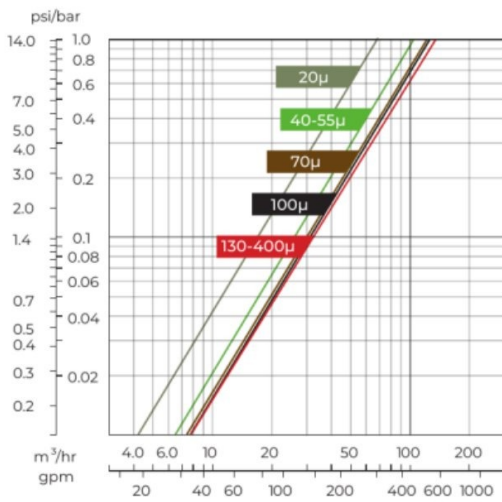
Nova 6" Ex.s 3 units



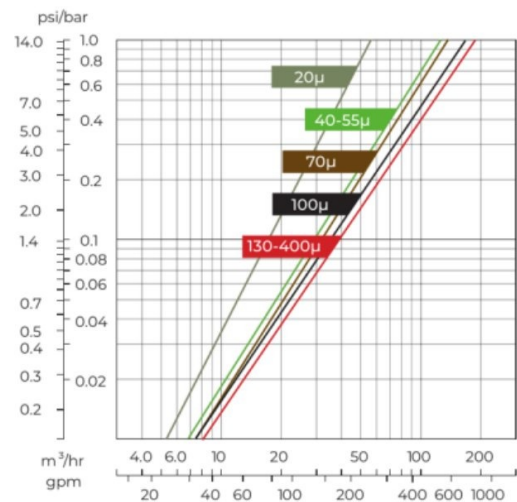
Nova 6" Ex.s 4 units



Nova 6" Ex.s 5 units



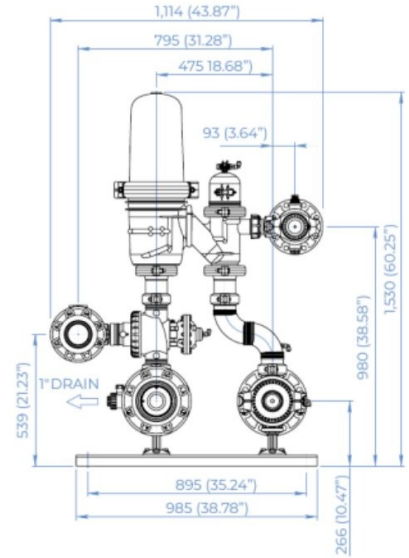
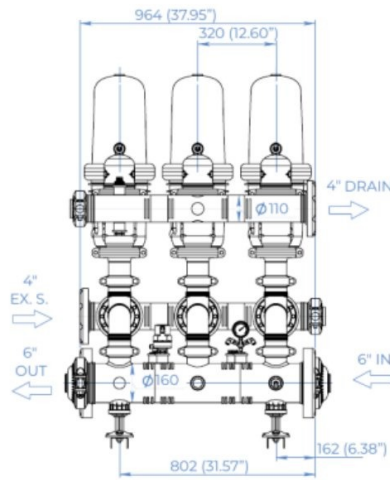
Nova 6" Ex.s 6 units



NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.

Spin Klin™ Nova Plus External Source

One-wing



mm (inch)

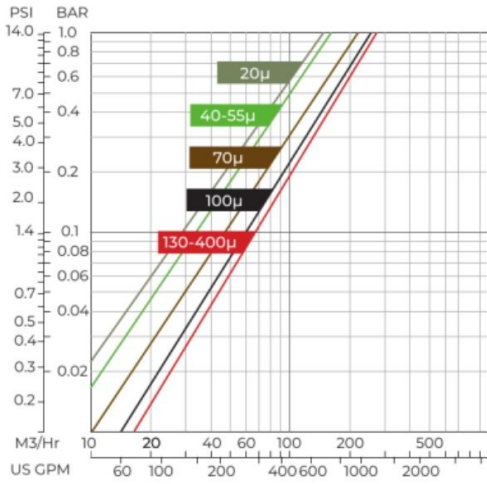
Technical Specifications

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. operating pressure		2 bar (30 psi)					
Max. recommended flow rate	100 μ	150 m ³ /h (600 gpm)	200 m ³ /h (881 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)
	55 μ	96 m ³ /h (423 gpm)	128 m ³ /h (564 gpm)	160 m ³ /h (704 gpm)	192 m ³ /h (845 gpm)	224 m ³ /h (986 gpm)	256 m ³ /h (1,127 gpm)
	20 μ	54 m ³ /h (238 gpm)	72 m ³ /h (317 gpm)	90 m ³ /h (396 gpm)	108 m ³ /h (475 gpm)	127 m ³ /h (559 gpm)	144 m ³ /h (634 gpm)
Available filtration degrees		400, 200, 130, 100, 55, 40, 20, 10 micron					
Filtration volume		9,426 cm ³ (575 in ³)	12,568 cm ³ (767 in ³)	15,710 cm ³ (959 in ³)	18,852 cm ³ (1,150 in ³)	21,994 cm ³ (1,342 in ³)	25,136 cm ³ (1,534 in ³)
Filtration area		7,860 cm ² (1,218 in ²)	10,480 cm ² (1,624 in ²)	13,100 cm ² (2,031 in ²)	15,720 cm ² (2,446 in ²)	18,340 cm ² (2,843 in ²)	20,960 cm ² (3,249 in ²)
Inlet/Outlet diameter		150mm (6")					
Max. operating temperature		60°C (140°F)					
Dry weight external source system		145 kg (320 lb)	175 kg (386 lb)	205 kg (452 lb)	235 kg (518 lb)	265 kg (584 lb)	295 kg (650 lb)

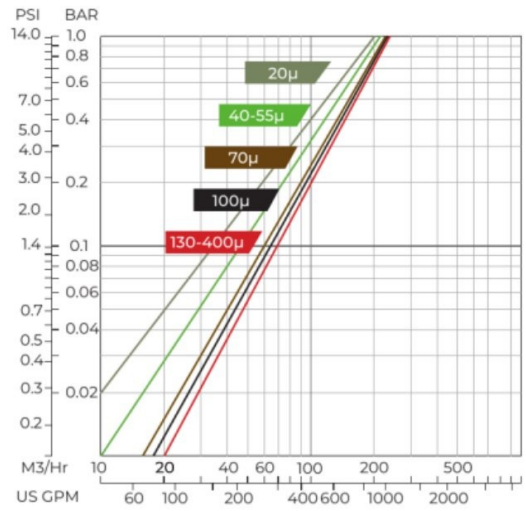
Backwash data	
Valve drain port	100 mm (4")
Flushing time	15-20 seconds
Min. flow for backwash	24-25 m ³ /h (106-110 gpm)

Head Loss Graph (in clean water)

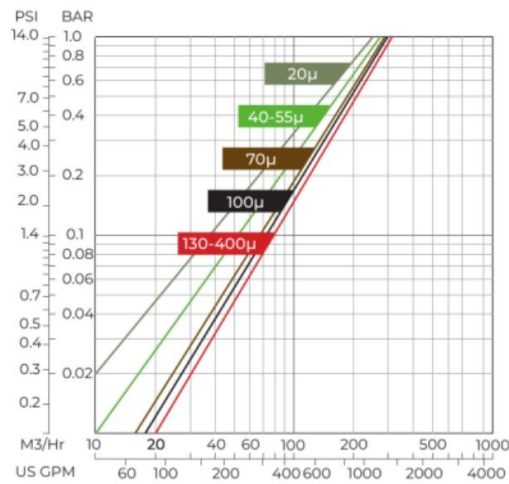
Nova Plus 6" Ex.s **3 units**



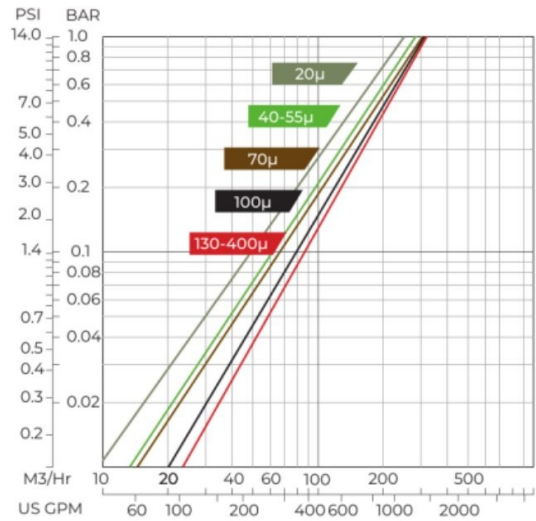
Nova Plus 6" Ex.s **4 units**



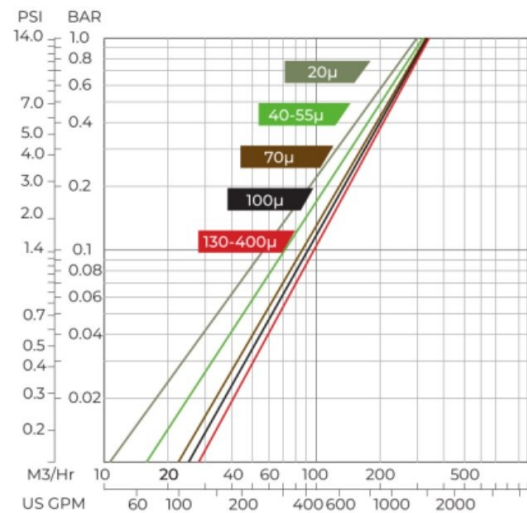
Nova Plus 6" Ex.s **5 units**



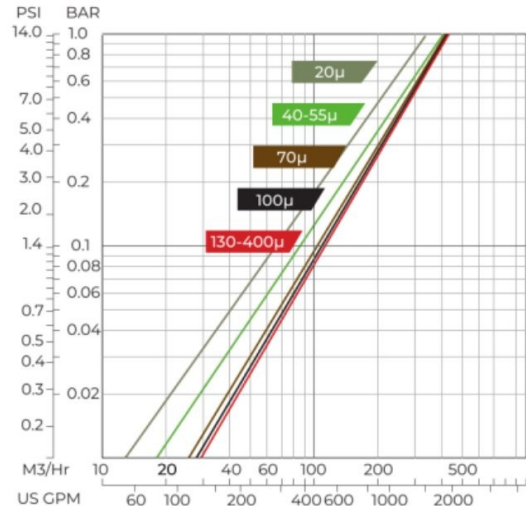
Nova Plus 6" Ex.s **6 units**



Nova Plus 6" Ex.s **7 units**

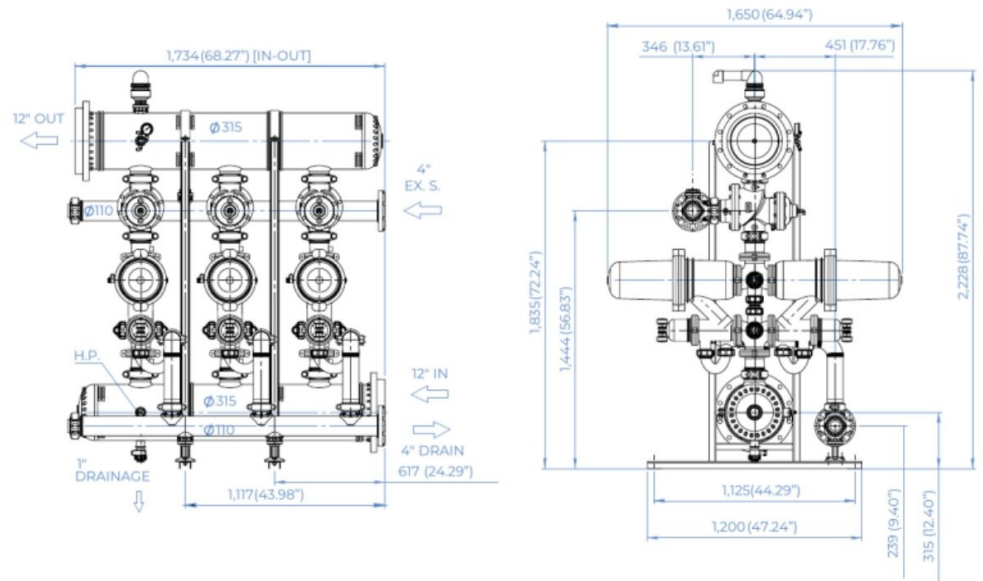


Nova Plus 6" Ex.s **8 units**



NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.

Spin Klin™ Nova Plus External Source



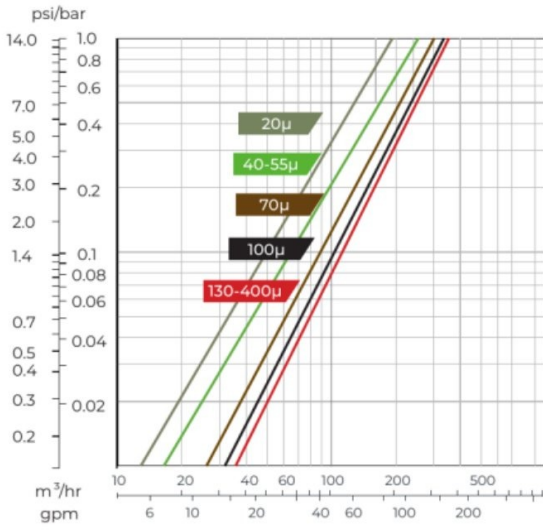
mm (inch)

Technical Specifications

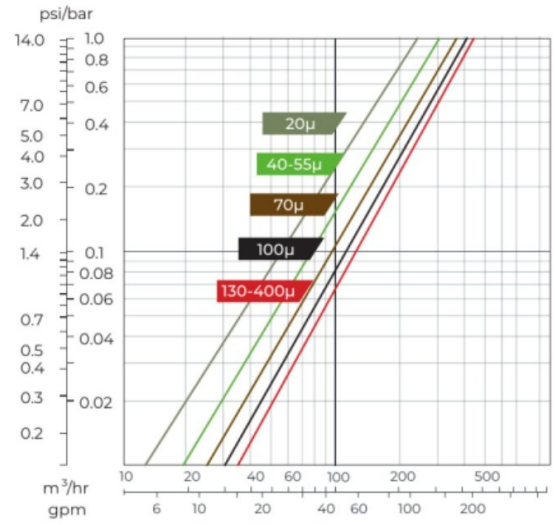
Filter type	3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	
General data						
Max. operating pressure	10 bar (145 psi)					
Min. operating pressure	2 bar (30 psi)					
Max. recommended flow rate	100µ	300 m ³ /h (1,321 gpm)	400 m ³ /h (1,761 gpm)	500 m ³ /h (2,201 gpm)	600 m ³ /h (2,642 gpm)	700 m ³ /h (3,082 gpm)
	55µ	192 m ³ /h (845 gpm)	256 m ³ /h (1,127 gpm)	320 m ³ /h (1,409 gpm)	384 m ³ /h (1,691 gpm)	448 m ³ /h (1,972 gpm)
	20µ	108 m ³ /h (475 gpm)	144 m ³ /h (634 gpm)	180 m ³ /h (792 gpm)	216 m ³ /h (951 gpm)	252 m ³ /h (1,109 gpm)
Available filtration degrees	400, 200, 130, 100, 55, 40, 20 micron					
Filtration volume	18,852 cm ³ (1,150 in ³)	25,136 cm ³ (1,534 in ³)	31,420 cm ³ (1,917 in ³)	37,704 cm ³ (2,300 in ³)	43,988 cm ³ (2,684 in ³)	
Filtration area	15,720 cm ² (2,437 in ²)	20,960 cm ² (3,249 in ²)	26,200 cm ² (4,061 in ²)	31,440 cm ² (4,873 in ²)	36,680 cm ² (5,685 in ²)	
Inlet/Outlet diameter	280 mm (10")	315 mm (12")				
Max. operating temperature	60°C (140°F)					
Dry weight external source system	503 kg (1,109 lb)	590 kg (1,301 lb)	677 kg (1,493 lb)	764 kg (1,684 lb)	851 kg (1,876 lb)	
Backwash data						
Valve drain port	100 mm (4")					
Flushing time	15-20 seconds					
Min. flow for backwash	48-50 m ³ /h (211-220 gpm)					

Head Loss Graph (in clean water)

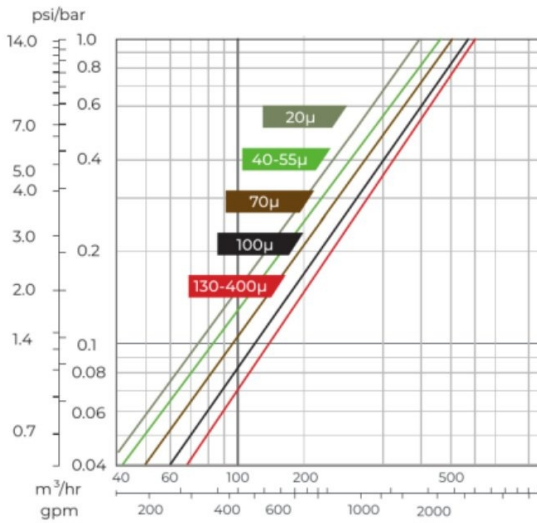
Nova Plus 10" Ex.s **3 units**



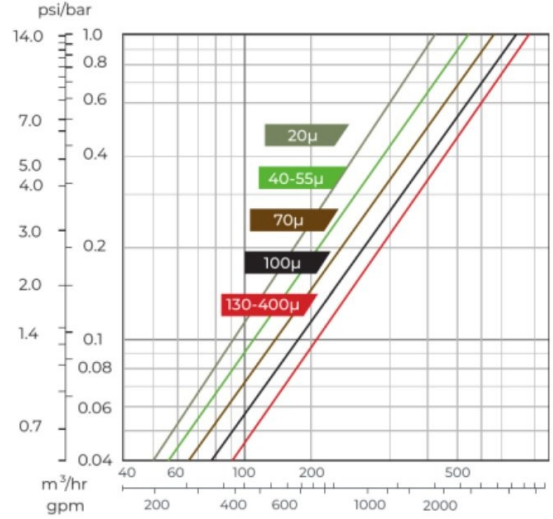
Nova Plus 12" Ex.s **4 units**



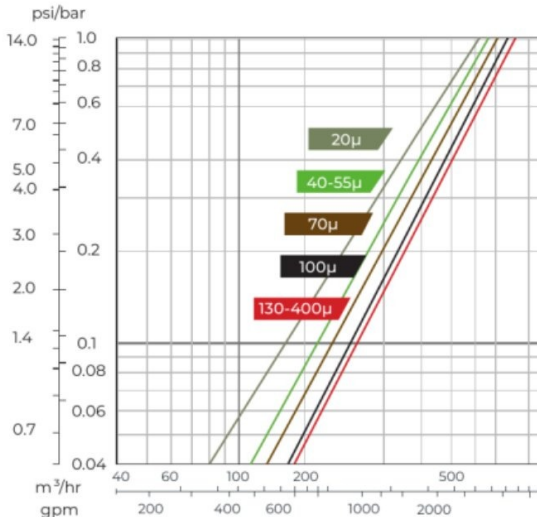
Nova Plus 12" Ex.s **5 units**



Nova Plus 12" Ex.s **6 units**

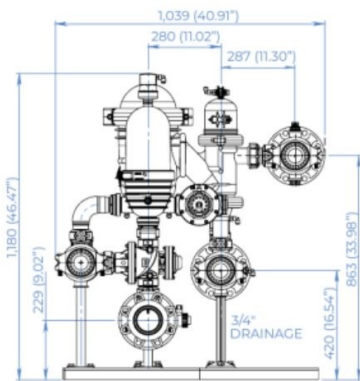
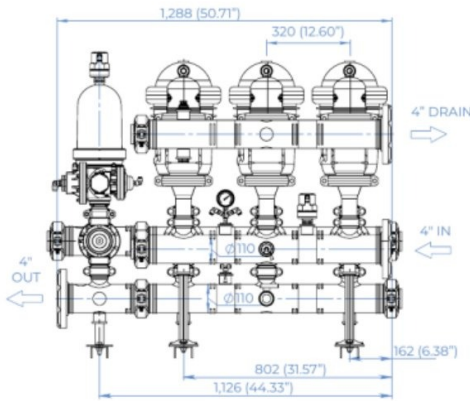


Nova Plus 12" Ex.s **7 units**



NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.

2" Spin Klin™ Nova Air Aided



mm (inch)

Filter Type	2 unit battery	3 unit battery	4 unit battery	
General data				
Max. operating pressure*	10 bar (145 psi)			
Min. downstream pressure	1 bar (15 psi)			
Max. recommended flow rate	100μ	28 m ³ /h (123 gpm)	42 m ³ /h (185 gpm)	56 m ³ /h (246 gpm)
	55μ	20 m ³ /h (88 gpm)	30 m ³ /h (132 gpm)	40 m ³ /h (176 gpm)
	20μ	10 m ³ /h (44 gpm)	15 m ³ /h (44 gpm)	25 m ³ /h (66 gpm)
Filtration volume	1,760 cm ³ (107 in ³)	3,444 cm ³ (210 in ³)	4,592 cm ³ (280 in ³)	
Filtration area	2,296 cm ² (356 in ²)	3,444 cm ² (210 in ²)	4,592 cm ² (280 in ²)	
Inlet/Outlet diameter	100 mm (4")	100 mm (4")		
Max. operating temperature*	60°C (140°F)			
Dry weight standard	128 kg (282 lb)	142 kg (313 lb)	156 kg (344 lb)	
Air flow requirements	270 l/min (71 gpm) at 6-8 bar (87-116 psi)			

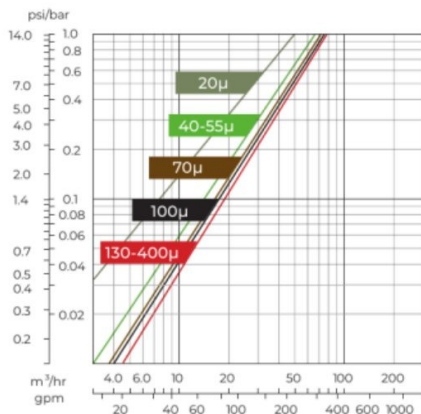
* Max. operating pressure and temperature are interdependent parameters and are given for general reference only. Please consult your authorized Amiad representative for the application specific parameters.

Backwash data	
Valve drain port	100 mm (4")
Flushing time**	7 sec
Backwash volume (not including air)**	12 liter (3.2 gallons)

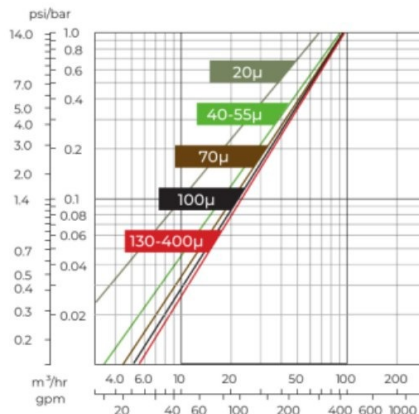
** Air Aided system flushing time and volume depend on air tank size.

Head Loss Graph (in clean water)

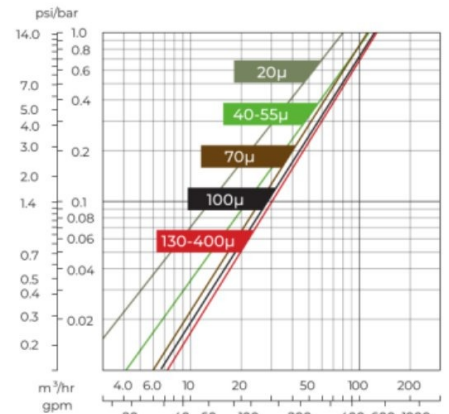
Nova 2" AAF 2 units



Nova 2" AAF 3 units



Nova 2" AAF 4 units



NOTE: Graphs are for general reference only. Consult your authorized Amiad representative for application specific parameters.



Over 60 years of innovation

Amiad Water Systems is a world leader in water filtration and water treatment solutions.

For over 60 years, we have devoted our passion and commitment to pioneering new filtration technologies, developing a comprehensive line of water filtration systems for agricultural and industrial applications.

Built for efficiency and reliability, our cutting-edge filters offer the latest innovation, backed by performance, quality, service and years of field experience.

With our screen, disc, microfiber and media technologies, we can effectively treat and filter water according to each customer's specific requirements.

Spin Klin™ Nova takes disc filtration technology to the next level, with high performance and optimal flexibility, allowing you to design your filtration system today to meet tomorrow's operational needs.



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