ARKAL

Arkal Product Guide

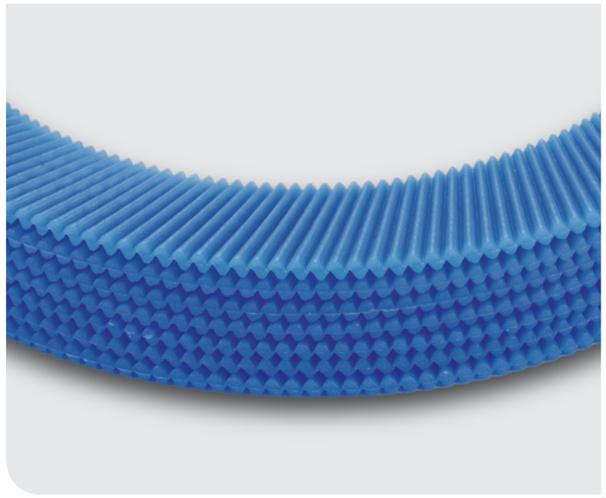
amiad® WATER SYSTEMS | ARKAL FILTOMAT AMIAD

Disc Filtration Technology

Standard Features:

- Micron-precise filtration of solids
- Innovative depth filter design traps and retains large amounts of solids
- Long-term operation with minimal maintenance or cleaning

Arkal's distinctively developed disc filtration technology operates using thin, colorcoded polypropylene discs of a specific micron size. The discs are diagonally grooved on both sides, in opposite directions. A series of discs are stacked and compressed on a specially designed spine.



The grooves of any two adjacent discs, pressed together, create a series of crossing points which form multiple particle traps. In the filtration process, the force of the spring along with the differential pressure firmly compresses these discs together providing exceptional filtration efficiency. Filtration occurs as water percolates from the outer diameter to the inner diameter of the filter element. Depending on the micron rating, there are multiple crossing points in each track, creating distinctive in-depth filtration.

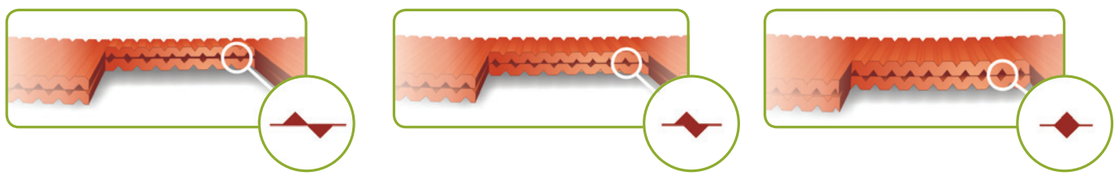


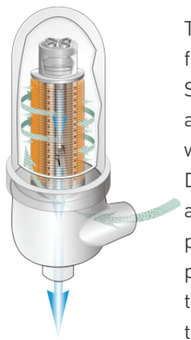
Table of Filtration Grades of the Discs and Color Code

Color Code	Blue	Yellow	Red	Black	Brown	Green	Purple	Gray
Micron	400	200	130	100	70	55	40	20
Mesh	40	80	120	140				

SpinKlin® Technology - Fully Automatic Disc Filter

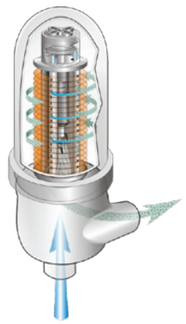
Standard Features:

- Securely stacked discs for micron-precise filtration solids
- Corrosion resistant spine
- Innovative depth filter design captures and retains large amounts of solids for longer filtration cycles
- Short, efficient backwash process conserves water and energy
- Easy and simple operation
- Long-term operation with minimal maintenance



Filtration Process:

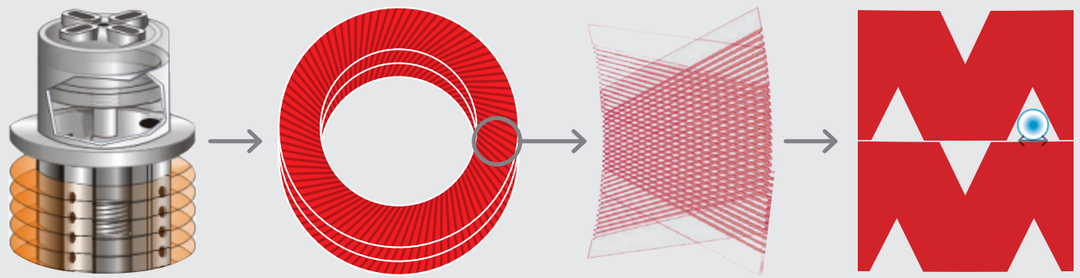
The color coded micron sized filtration discs are stacked on the SpinKlin® spine and assembled according to predetermined water filtration requirements. During filtration, the discs are compressed by means of preloaded spring and differential pressure, forcing the water to pass through the grooved discs surface, thus trapping the solids.



Backwash Process:

Activated by a predefined time command or differential pressure, the system enters backwash mode. The inlet valve port shuts as the drain port opens. During the backwash process, pressure is released and the spine's piston rises, releasing the compression on the discs. Tangential jets of clean water are then forced through the nozzles positioned along the spine. At this stage the discs spin freely, loosening the trapped solids which are then flushed out.

Diagonally Grooved Disc Filtration



2″ SpinKlin®

Automatic Compact (stand alone) Disc Filter

Inlet/Outlet Connection	Flow Capacity	Operation
2″	10-20 m^3/h	Fully automatic disc filtration unit

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Easy and simple operation

Special Features:

- Automatic backwash for self-cleaning.
- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filte element. This saves labor and costs, minimizes maintenance, and permanently eliminates the need to replace filter media.
- Compact design.

Technical Data

Max. pressure	10 bar
Min. backwash pressure	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	20 m^3/h
70 micron	12 m^3/h
55 micron	10 m^3/h
Filtration surface area	880 cm^2
Filtration volume	1,148 cm^3
Battery length - L	829 mm
Battery height - H	612 mm
Battery width - W	285 mm
Weight	20 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

2″ SpinKlin®

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
2″-6″	20-120 m³/h	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.

Technical Data	2 Units	3 Units	4 Units
Max. pressure	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	40 m^3/h	60 m^3/h	80 m^3/h
70 micron	24 m^3/h	36 m^3/h	48 m^3/h
55 micron	20 m^3/h	30 m^3/h	40 m^3/h
20 micron	10 m^3/h	15 m^3/h	20 m^3/h
Filtration surface area	1,760 cm^2	2,640 cm^2	3,520 cm^2
Filtration volume	2,296 cm^3	3,444 cm^3	4,592 cm^3
Battery length - L	698 mm	964 mm	1,214 mm
Battery height - H	737 mm	747 mm	747 mm
Battery width - W	638 mm	662 mm	662 mm
Weight polypropylene	30 kg	50 kg	70 kg
Standard manifold	3″	4″	4″

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

3″ SpinKlin®

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
4″- 8″	90-200 m³/h	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.
- Cost effective.

Technical Data	3 Units	4 Units	5 Units
Max. pressure	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	90 m³/h	120 m³/h	150 m³/h
70 micron	72 m³/h	96 m³/h	120 m³/h
55 micron	60 m³/h	80 m³/h	100 m³/h
20 micron	30 m³/h	40 m³/h	50 m³/h
Filtration surface area	5,280 cm²	7,040 cm²	8,800 cm²
Filtration volume	6,888 cm³	9,184 cm³	11,480 cm³
Battery length - L	945 mm	1,195 mm	1,445 mm
Battery height - H	1,291 mm	1,291 mm	1,291 mm
Battery width - W	865 mm	865 mm	865 mm
Weight polypropylene	120 kg	150 kg	180 kg
Standard manifold	6″	6″	6″

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

4” SpinKlin® Galaxy

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
8”-16”	200-3,000 m³/h and higher	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- Particularly cost effective high flow module.
- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. pressure	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	300 m^3/h	400 m^3/h	500 m^3/h	600 m^3/h
70 micron	180 m^3/h	240 m^3/h	300 m^3/h	360 m^3/h
55 micron	150 m^3/h	200 m^3/h	250 m^3/h	300 m^3/h
20 micron	75 m^3/h	100 m^3/h	125 m^3/h	150 m^3/h
Filtration surface area	13,200 cm^2	17,600 cm^2	22,000 cm^2	26,400 cm^2
Filtration volume	17,219 cm^3	22,959 cm^3	28,698 cm^3	34,438 cm^3
Battery length - L	1.45 m	1.95 m	2.74 m	2.67 m
Battery height - H	1.37 m	1.37 m	1.41 m	1.46 m
Battery width - W	0.88 m	0.97 m	0.97 m	0.97 m
Weight (plastic valves)	190 kg	255 kg	310 kg	385 kg
Standard manifold	8”	10”	10”	12”

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

6″ SpinKlin® Galaxy

Automatic Disc Filter Systems

The number of filters in the modules of a specific system is determined according to the system designed flowrate and may range between 2 to 12.

Inlet/Outlet Connection	Flow Capacity	Operation
12″	800 m^3/h and higher	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash
- Cost effective high flow system

Special Features:

- Low headloss/energy consumption.
- Innovative filter design captures and retains large amounts of solids.
- Corrosion resistant construction materials, suitable for sea and brackish water.
- NSF 61 standard approved.

Technical Data	4 Modules System	5 Modules System	6 Modules System	7 Modules System	8 Modules System
Max. pressure	8 bar	8 bar	8 bar	8 bar	8 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron	3,120 m^3/h	3,900 m^3/h	4,680 m^3/h	5,460 m^3/h	6,240 m^3/h
70 micron	2,208 m^3/h	2,760 m^3/h	3,312 m^3/h	3,864 m^3/h	4,416 m^3/h
55 micron	1,920 m^3/h	2,400 m^3/h	2,880 m^3/h	3,360 m^3/h	3,840 m^3/h
20 micron	960 m^3/h	1,200 m^3/h	1,440 m^3/h	1,680 m^3/h	1,920 m^3/h
Filtration surface area	168,960 cm^2	211,200 cm^2	253,440 cm^2	295,680 cm^2	337,920 cm^2
Filtration volume	220,416 cm^3	275,520 cm^3	330,624 cm^3	385,728 cm^3	440,832 cm^3
System length - L (meter)	9.5 m	11.5 m	13.5 m	15.5 m	17.5 m
System width - W (meter)	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m
System height - H (meter)	1.5 m	1.5 m	1.5 m	1.5 m	1.5 m
Standard manifold 6x6″ (module)	12″	12″	12″	12″	12″

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

3”-4” SpinKlin® Angle Apollo

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
6”- 8”	90-360 m³/h and higher	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- Unique construction, easy installation.
- Particularly cost effective high flow module.
- All materials which come in contact with water are polymeric.

Technical Data		3 Units	4 Units	5 Units	6 Units	7 Units	8 Units
Max. pressure		10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure		2 bar	2 bar	2 bar	2 bar	2 bar	2 bar
Max. flowrate:	400-130µm	120 m³/h	160 m³/h	200 m³/h	240 m³/h	280 m³/h	320 m³/h
	100µm	110 m³/h	145 m³/h	180 m³/h	215 m³/h	250 m³/h	290 m³/h
Filtration surface area		7,860 cm²	10,480 cm²	13,100 cm²	15,720 cm²	18,340 cm²	20,960 cm²
Filtration volume		9,426 cm³	12,568 cm³	15,710 cm³	18,852 cm³	21,994 cm³	25,136 cm³
Backwash flow per filter		24 m³/h	24 m³/h	24 m³/h	24 m³/h	24 m³/h	24 m³/h
System length - L		1,160 mm	1,520 mm	1,920 mm	2,280 mm	2,660 mm	3,040 mm
System width - W		1,048 mm	1,048 mm	1,118 mm	1,118 mm	1,160 mm	1,160 mm
System height - H		1,201 mm	1,201 mm	1,285 mm	1,285 mm	1,307 mm	1,307 mm
Standard diameter		6”	6”	8”	8”	10”	10”

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

4″ SpinKlin® Twin Apollo

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
8″ - 12″	180-600 m³/h and higher	Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- Unique construction, easy installation.
- Particularly cost effective high flow module.
- All materials which come in contact with water are polymeric.

Technical Data		3 Units	4 Units	5 Units	6 Units	7 Units	8 Units
Max. pressure		10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure		2 bar	2 bar	2 bar	2 bar	2 bar	2 bar
Max. flowrate:	400-130µm	225 m³/h	300 m³/h	375 m³/h	450 m³/h	525 m³/h	600 m³/h
	100µm	215 m³/h	290 m³/h	360 m³/h	430 m³/h	505 m³/h	580 m³/h
Filtration surface area		15,720 cm²	20,960 cm²	26,200 cm²	31,440 cm²	36,680 cm²	41,920 cm²
Filtration volume		18,852 cm³	25,136 cm³	31,420 cm³	37,704 cm³	43,988 cm³	50,272 cm³
Backwash flow per filter		48 m³/h	48 m³/h	48 m³/h	48 m³/h	48 m³/h	48 m³/h
System length - L		1,450 mm	2,240 mm	2,740 mm	3,240 mm	3,740 mm	4,240 mm
System width - W		1,533 mm	1,533 mm	1,533 mm	1,533 mm	1,533 mm	1,533 mm
System height - H		1,699 mm	1,833 mm	1,833 mm	1,833 mm	1,307 mm	1,930 mm
Standard diameter		8"	10"	10"	10"	12"	12"

* Apollo 4″ Twin with plaslite 4″ x 3″.
* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

12″ SpinKlin® Galaxy Super Flow

Automatic Disc Filter Systems

Inlet/Outlet Connection	Flow Capacity	Operation
12″	1,500 m³/h and higher	Modular, fully automatic disc filtration

Standard Features:

- Small footprint - high flow
- Precise particle separation
- Innovative filter design captures and stores large amounts of solids
- Low energy and water consumption
- Long-term operation with barely any maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash
- Polyester coated steel

Special Features:

- Unique solution for high flow requirements.
- Particularly cost effective high flow module.
- The flushing cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water.
- Modular batteries allow for easy expansion of system.
- Low labor costs - minimum maintenance.

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. pressure	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	2,295 m³/h	3,060 m³/h	3,825 m³/h	4,590 m³/h
70 micron	1,836 m³/h	2,448 m³/h	3,060 m³/h	3,672 m³/h
55 micron	1,530 m³/h	2,040 m³/h	2,550 m³/h	3,060 m³/h
20 micron	—	—	1,275 m³/h	1,530 m³/h
Filtration surface area	134,640 cm²	179,520 cm²	224,400 cm²	269,280 cm²
Filtration volume	175,644 cm³	234,192 cm³	292,740 cm³	351,288 cm³

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Manual Disc Filters ¾" - 1" - 1½"

¾" 1" 1" Super 1½" 1½" Super

Inlet/Outlet Connection

¾" - 1" - 1½"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Excellent corrosion resistance
- Long life span
- Polyamide housing - resistant to harsh environmental conditions (¾" PBT housing)

¾" Technical Data	¾"
Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	4 m^3/h
Filtration surface area	160 cm^2
Filtration volume	95 cm^3
Filter length - L	144 mm
Filter width - WØ	74 mm
Distance between end connections - A	150 mm
Weight	0.37 kg

1" Technical Data	1"	1" Super
Max. pressure	10 bar	10 bar
Flowrate: 400-100 micron (40-140 mesh)	6 m^3/h	8 m^3/h
55 micron	4 m^3/h	6 m^3/h
Filtration surface area	306 cm^2	500 cm^2
Filtration volume	360 cm^3	592 cm^3
Filter length - L	233 mm	340 mm
Filter width - WØ	130 mm	130 mm
Distance between end connections - A	158 mm	158 mm
Weight	1.1 kg	1.4 kg

1½" Technical Data	1½"	1½" Super
Max. pressure	10 bar	10 bar
Flowrate: 400-100 micron (40-140 mesh)	8 m^3/h	12 m^3/h
55 micron	5 m^3/h	8 m^3/h
Filtration surface area	306 cm^2	500 cm^2
Filtration volume	360 cm^3	592 cm^3
Filter length - L	250 mm	350 mm
Filter width - WØ	130 mm	130 mm
Distance between end connections - A	200 mm	200 mm
Weight	1.3 kg	1.5 kg

Manual Disc Filters 2”-3”

2” Dual

3” Twin

Inlet/Outlet Connection

2”- 3”

Special Features:

- 2” super filter - Tangential inlet for higher retention capacity.
- 2” Dual filter - Angle or in-line outlet options for maximum flexibility.
- 3” Twin filter - Largest filtration area of comparable products.
- Polyamide housing - resistant to harsh environmental conditions.

2” Line/Dual Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m^3/h
70 micron	20 m^3/h
55 micron	17 m^3/h
20 micron	8 m^3/h
Filtration surface area	950 cm^2
Filtration volume	1,225 cm^3
Filter length - L	437 mm/465 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm B. 76 mm
Weight	5 kg

3” Twin Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m^3/h
70 micron	40 m^3/h
55 micron	34 m^3/h
20 micron	16 m^3/h
Filtration surface area	1,900 cm^2
Filtration volume	2,450 cm^3
Filter length - L	865 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm B. 76 mm
Distance between end connections - A	320 mm
Weight (flanged)	13.95 kg
Weight (victualic, threaded)	9.85 kg

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Excellent corrosion resistance
- Long life span

Manual Disc Filters 2”-3” Leader

2” Leader

3” Leader

Inlet/Outlet Connection

2”- 3”

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

2” Leader Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m^3/h
70 micron	20 m^3/h
55 micron	17 m^3/h
20 micron	8 m^3/h
Filtration surface area	950 cm^2
Filtration volume	1,225 cm^3
Filter length - L	425 mm
Filter width - WØ	195 mm
Distance between end connections	A. 230 mm B. 75 mm
Weight	2 kg

3” Leader Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m^3/h
70 micron	40 m^3/h
55 micron	34 m^3/h
20 micron	16 m^3/h
Filtration surface area	1,900 cm^2
Filtration volume	2,450 cm^3
Filter length - L	742 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm B. 76 mm
Distance between end connections - A	320 mm
Weight (flanged)	8 kg
Weight (victualic, threaded)	6.3 kg

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Manual Disc Filters
2″ Dual Lite, 3″ Twin Lite

2″ Dual Leader

3″ Twin Lite

Inlet/Outlet Connection

2″- 3″

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.
- Unique polymeric clamp.

2″ Dual Lite Technical Data

Max. pressure	8 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m^3/h
70 micron	20 m^3/h
55 micron	17 m^3/h
20 micron	8 m^3/h
Filtration surface area	950 cm^2
Filtration volume	1,225 cm^3
Filter length - L	416 mm
Filter width - WØ	195 mm
Distance between end connections	A. 260 mm B. 75 mm
Weight	3 kg

3″ Twin Lite Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m^3/h
70 micron	40 m^3/h
55 micron	34 m^3/h
20 micron	16 m^3/h
Filtration surface area	1,900 cm^2
Filtration volume	2,450 cm^3
Filter length - L	840 mm
Filter width - WØ	225 mm
Distance between end connections - A	320 mm
Weight	5.9 kg

Manual Disc Filters
3”- 4” Super Angle

3” Super Angle

4” Super Angle

Inlet/Outlet Connection

3”- 4”

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

3” Super Angle Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m^3/h
55 micron	35 m^3/h
20 micron	18 m^3/h
Filtration surface area	1,852 cm^2
Filtration volume	2,223 cm^3
Filter height - H	666 mm
Filter length - L	397 mm
Filter width - WØ	280 mm
Distance between end connections	A. 185 mm B. 145 mm
Weight - flanged	12.55 kg
Weight - victaulic, threaded	11.05 kg

4” Super Angle Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	60 m^3/h
55 micron	40 m^3/h
20 micron	20 m^3/h
Filtration surface area	1,852 cm^2
Filtration volume	2,223 cm^3
Filter height - H	664 mm
Filter length - L	410 mm
Filter width - WØ	280 mm
Distance between end connections	A. 187 mm B. 145 mm
Weight - flanged	13.50 kg
Weight - victaulic, threaded	11.40 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Manual Disc Filters
4”- 6” Super Leader

4” Super Leader

6” Super Leader

Inlet/Outlet Connection

4”- 6”

Special Features:

- The largest polypropylene disc filters.
- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

4” Super Leader Technical Data

Max. pressure	10 bar
Max. flowrate: 400-100 micron	110 m^3/h
Filtration surface area	3,704 cm^2
Filtration volume	4,446 cm^3
Filter length - L	1,185 mm
Filter width - WØ	280 mm
Distance between end connections - A	445 mm
Weight - flanged	24.65 kg

6” Super Leader Technical Data

Max. pressure	10 bar
Max. flowrate: 400-100 micron	160 m^3/h
Filtration surface area	3,704 cm^2
Filtration volume	4,446 cm^3
Filter length - L	1,185 mm
Filter width - WØ	280 mm
Distance between end connections - A	415 mm
Weight - flanged	26.40 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

PSA Series - Polymeric Semi-Automatic Screen Filters

3” - 4” Angle

4” - 6” Super Leader

Inlet/Outlet Connection

3” - 4” - 6”

Special Features:

- The largest polypropylene disc filters.
- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

Model Number		Operations Pressure		Connection Size (inch)	Screen Area (cm^2)	Max. Flow Rate (m^3/h)*	Weight (kg)
		Min. bar	Max. bar				
AKSP3LT	3” Threaded	1	10	3	1,250	60	12
AKSP3LV	3” VIC	1	10	3	1,250	60	12
AKSP3LF	3” Flange	1	10	3	1,250	60	13
AKSP4LV	4” VIC	1	10	4	1,250	90	13
AKSP4LF	4” Tlange	1	10	4	1,250	90	14
AKSP4S	4” Twin Flange	1	10	4	2,500	110	26
AKSP6S	6” Twin Flange	1	10	6	2,500	140	28

AKSP = Arkal Semi Automatic Polypropylene
L = Angle filter connection
T = Threaded filter connection
V = Victaulic filter connection
F = Flanged filter connection
S = Super leader filter (inline filter connection)

* Flowrate data are for good quality water at filtration grade of 120 micron.

Standard Features:

- Hight efficiency sand separation
- Long-term self-operated – minimal maintenance
- Corrosion resistant

Sand Separator Systems

2” Sand Separator

2” Sand Separator Batteries

Inlet/Outlet Connection

2” sand separator Modular design in batteries 3”-10”

Special Features:

- Suitable for aquaculture and marine environment.

2” Sand Separator Technical Data

Max. pressure	10 bar
Flowrate	15-25 m^3/h
Filter length - L	540 mm
Filter width - W	290 mm
Distance between end connections	A. 145 mm B. 85 mm
Weight	5.3 kg

2” Sand Separator Batteries Technical Data	2 Units	3 Units	4 Units
Max. pressure	10 bar	10 bar	10 bar
Flowrate	30-50 m^3/h	45-75 m^3/h	60-100 m^3/h
Battery length - L	605 mm	855 mm	1,105 mm
Battery height - H	1,220 mm	1,220 mm	1,220 mm
Battery width - W	556 mm	556 mm	556 mm
Weight	65 kg	115 kg	145 kg

Standard Features:

- Hight efficiency sand separation
- Long-term self-operated – minimal maintenance
- Corrosion resistant

A.G.F Media Filters and Batteries

48” AGF

48” AGF Batteries

Inlet/Outlet Connection

48” tank diameter
4” inlet/outlet diameter

Special Features:

- All plastic media filter is completely corrosion resistant.
- Two large service ports allow for easy access and media maintenance.
- Lightweight - easy and quick installation.
- Unique internal nozzle design for maximum cleansing of filter media.
- Suitable for aquaculture and marine environment.

48” AGF Technical Data

Max. pressure	6 bar
Max. flowrate (single filter)	70 m^3/h
Diameter inlet/outlet	4” (Victualic)
Filter diameter	48” (1,220 mm)
Distance between end connections - H	1,106 mm
Distance between two filters - L	1,320 mm
Weight	120 kg

48” AGF Batteries Technical Data	2 Units	3 Units	4 Units	5 Units	6 Units
Max. pressure	6 bar	6 bar	6 bar	6 bar	6 bar
Flowrate	140 m^3/h	210 m^3/h	280 m^3/h	350 m^3/h	420 m^3/h
Diameter connection	160 mm	160 mm	200 mm	200 mm	200 mm
Filtration surface area	2.32 m^2	3.48 m^2	4.64 m^2	5.80 m^2	6.96 m^2
Battery height	1,991 mm	1,991 mm	2,017 mm	2,017 mm	2,017 mm
Distance between end connections	2,630 mm	3,950 mm	5,270 mm	6,590 mm	7,910 mm

Standard Features:

- High quality filtration of solid impurities
- Easy automated operation, requires no special tools

2" Compact SpinKlin® **L.C.E.**

Automatic Disc Filter

Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	10 m^3/h	44 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

Max. flowrate 400-130 µ	15 m^3/h	66 gpm
Max. flowrate 100 µ	12 m^3/h	53 gpm
Filtration surface area	880 cm^2	136.4 $inch^2$
Filtration volume	1148 cm^3	70 $inch^3$

2″ SpinKlin® **L.C.E.**

Automatic Disc Filter

Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	10 m^3/h	44 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	45 m^3/h	60 m^3/h	75 m^3/h	90 m^3/h
Max. flowrate 100 µ	36 m^3/h	48 m^3/h	60 m^3/h	72 m^3/h
Filtration surface area	2640 cm^2	3520 cm^2	4400 cm^2	5280 cm^2
Filtration volume	3444 cm^3	4592 cm^3	5740 cm^3	6888 cm^3

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	198 gpm	264 gpm	330 gpm	369 gpm
Max. flowrate 100 µ	158 gpm	211 gpm	264 gpm	317 gpm
Filtration surface area	409 $inch^2$	545 $inch^2$	628 $inch^2$	818 $inch^2$
Filtration volume	210 $inch^3$	280 $inch^3$	350 $inch^3$	420 $inch^3$

3″ SpinKlin® **L.C.E.**

Automatic Disc Filter

Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	20 m^3/h	88 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	90 m^3/h	120 m^3/h	150 m^3/h	180 m^3/h
Max. flowrate 100 µ	72 m^3/h	96 m^3/h	120 m^3/h	144 m^3/h
Filtration surface area	5280 cm^2	7040 cm^2	8800 cm^2	10560 cm^2
Filtration volume	6888 cm^3	9184 cm^3	11480 cm^3	13776 cm^3

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	396 gpm	528 gpm	660 gpm	792 gpm
Max. flowrate 100 µ	317 gpm	422 gpm	528 gpm	634 gpm
Filtration surface area	818 $inch^2$	1091 $inch^2$	1364 $inch^2$	1636 $inch^2$
Filtration volume	420 $inch^3$	560 $inch^3$	700 $inch^3$	840 $inch^3$

3″ SpinKlin® Apollo Angle **L.C.E.**

Automatic Disc Filter

Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	20 m^3/h	88 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	120 m^3/h	160 m^3/h	200 m^3/h	240 m^3/h
Max. flowrate 100 µ	110m^3/h	145 m^3/h	180 m^3/h	215 m^3/h
Filtration surface area	7860 cm^2	10480 cm^2	13100 cm^2	15720 cm^2
Filtration volume	9426 cm^3	12568 cm^3	15710 cm^3	18852 cm^3

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	530 gpm	705 gpm	880 gpm	1.055 gpm
Max. flowrate 100 µ	485 gpm	639 gpm	793 gpm	947 gpm
Filtration surface area	1220 $inch^2$	1625 $inch^2$	2030 $inch^2$	2435 $inch^2$
Filtration volume	575 $inch^3$	767 $inch^3$	595 $inch^3$	1150 $inch^3$

4″ SpinKlin®Apollo Twin **L.C.E.**

Automatic Disc Filter

Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	40 m^3/h	175 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	225 m^3/h	300 m^3/h	375 m^3/h	450 m^3/h
Max. flowrate 100 µ	215 m^3/h	290 m^3/h	360 m^3/h	430 m^3/h
Filtration surface area	15720 cm^2	20960 cm^2	26200 cm^2	31440 cm^2
Filtration volume	18852 cm^3	25136 cm^3	31420 cm^3	37704 cm^3

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	990 gpm	1320 gpm	1650 gpm	1980 gpm
Max. flowrate 100 µ	947 gpm	1227 gpm	1585 gpm	1894 gpm
Filtration surface area	2435 $inch^2$	3245 $inch^2$	4055 $inch^2$	4865 $inch^2$
Filtration volume	1150 $inch^3$	1534 $inch^3$	1917 $inch^3$	2301 $inch^3$

Municipal

Industry

Irrigation

Headquarters
Amiad Water Systems Ltd. D.N. Galil Elyon 1, 12335, Israel,
Tel: 972 4 690 9500, Fax: 972 4 690 9391,
E-mail: info@amiad.com

North America
Main Office and Manufacturing:
120-J Talbert Road, Mooresville, NC 28117,
Tel: 1 704 662 3133, Fax: 1 704 662 3155, Toll Free: 1 800 24 FILTER
E-mail: info@amiadusa.com www.amiadusa.com

West Coast Sales Office and Warehouse:
2220 Celsius Avenue, Oxnard, California 93030
Tel: 805 988 3323, Fax: 805 988 3313, Toll Free: 1 800 969 4055

Chile
Amiad Andina, Carretera General San Martín 16.500 No 30,
Loteo Industrial Los Libertadores, Colina, Santiago de Chile,
Tel: 56 2 489 5100, Fax: 56 2 489 5101,
E-mail: amiadandina@amiad.com

Brazil
E-mail: amiad@amiad.com.br

Amiad Oil & Gas,
E-mail: amisur@adinet.com.uy

Europe
Amiad Water Systems Europe SAS,
Ilot No4 ZI La Boitardière, 37530 Chargé, France,
Tel: 33 (0) 2 47 23 01 10, Fax: 33 (0) 2 47 23 80 67,
E-mail: info@amiad-europe.com

Germany
Amiad Filtration Solutions (2004) Ltd. Zweigniederlassung
Deutschland Prinz-Regent-Str. 68 a 44795 Bochum,
Tel: 49 (0) 234 588082-0, Fax: 49 (0) 234 588082-12,
E-mail: info@amiad.de

Turkey
FTS – Filtration & Treatment Systems, Istanbul yolu 26 Km,
Yurt Orta Sanayii, Saray, Ankara, Tel: 90 312 8155266/7,
Fax: 90 312 8155248, E-mail: info@fts-filtration.com

India
Amiad Filtration India Pvt Limited, 305 Sai Commercial Building
Govandi St Rd, Govandi Mumbai 400 088, Tel: 91 22-67997813/14,
Fax: 91 22-67997814, Email: info@amiadindia.com

China
Amiad China (Yixing Taixing Environtec Co., Ltd.)
70 Baihe Chang, Xingjie Yixing Jiangsu, 214204,
Tel: 86 510 87134000, Fax: 86 510 87134999,
E-mail: marketing@taixing.cc

South-East Asia
Filtration & Control Systems Pte. Ltd., 19B Teo Hong Road,
088330 Singapore, Tel: 65 6 337 6698, Fax: 65 6 337 8180,
E-mail: fcs1071@pacific.net.sg

Australia
Amiad Australia Pty Ltd. 138 Northcorp Boulevard,
Broadmeadows, Victoria 3047,
Tel: 61 3 93585800, Fax: 61 3 93585888,
E-mail: sales@amiad.com.au

www.amiad.com

910101-000283/05.2012

amiad® WATER SYSTEMS ARKAL FILTOMAT AMIAD