O amiad irrigation











SEMI-AUTOMATIC FILTERSFEATURES







Available as an upgrade kit



Simple operation



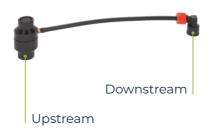


Minimal maintenance

Scanaway and Brushaway Filters and Kits

Amiad's unique Scanaway and Brushaway semi-automatic filters providing a quick and efficient way to clean your filter with a simple turn of the handle.

- · No interruption of the process water flow during cleaning
- · Clogging indicator to show when cleaning is required
- · Low pressure loss
- · Available as an upgrade kit for Amiad manual filters (plastic filters 2"-3", steel filters 3"-8")



How the Clogging Indicator Works

The Clogging Indicator is a special feature mounted on the filter pressure check points and acts like a "traffic light". When the pressure differential across the screen reaches a pre-set value of 0.5 bar (7 psi). The red button of the Clogging Indicator pops up to visually indicate that the filter needs to be cleaned.



How the Scanaway Assembly Works

The Scanaway assembly consists of a suction-scanner and a hollow pipe with suction nozzles that face the inner side of the screen. Outside the filter, a handle is connected to the suction-scanner, allowing turning of the scanner in a spiral movement so it rotates inside the screen surface without touching the screen mesh. Opening the exhaust valve at the filter lid creates low pressure conditions in the suction-scanner, which causes the scanner nozzles to suck in the dirt particles from the screen surface and expel the dislodged particles out through the exhaust valve. Scanning is done during the filtration process without interrupting the flow of process water through the filter.



How the Brushaway Assembly Works

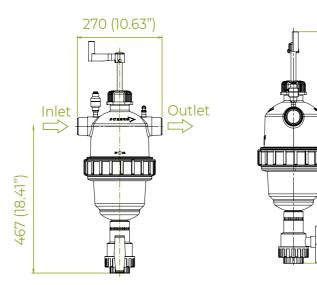
The Brushaway assembly consists of nylon brushes fitted on a frame and inserted into the filter screen.

Outside the filter, a handle is connected to the brush unit, allowing rotation of the brushes to wipe the particles from the inner screen surface. Opening the exhaust valve allows the dislodged particles to then be expelled through the exhaust valve. Brushing is done during the filtering process without interrupting the flow of process water through the filter.

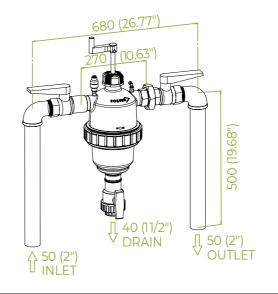
Semi-Automatic Filters: Models

2"

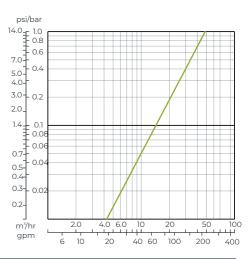




738 (29")

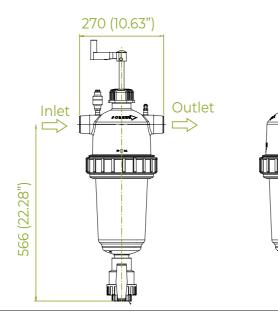


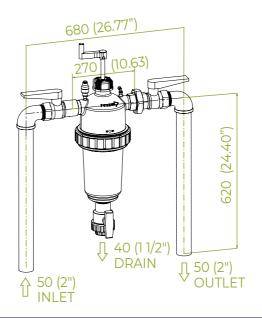
Pressure Loss Graphs (in clean water)

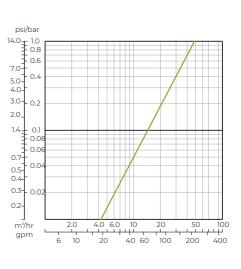


2" Super



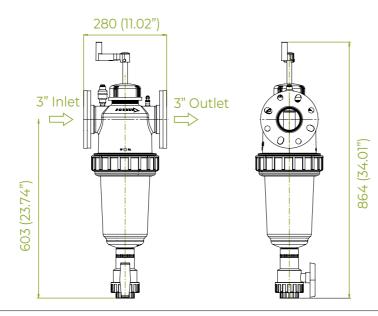


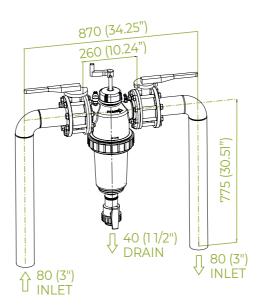


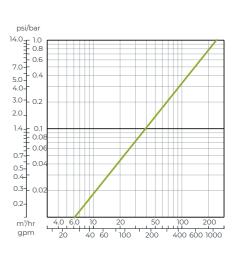


3"





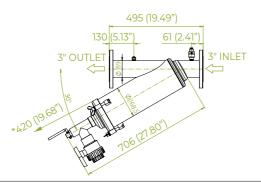




Semi-Automatic Filters: Models

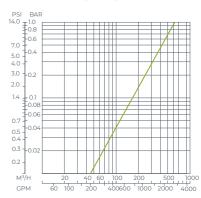
3" in-line





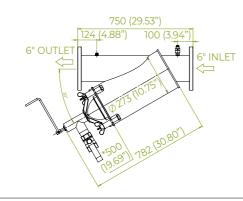


Pressure Loss Graphs (in clean water)



4" Super in-line | 6" Compact



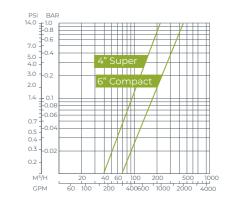




2020 (79.52")

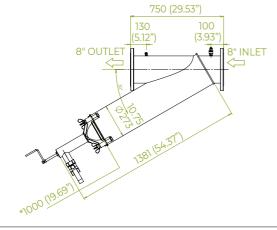
750 (29.52")

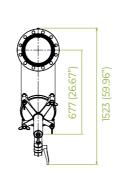
1 6" INLE

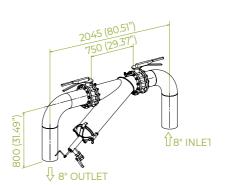


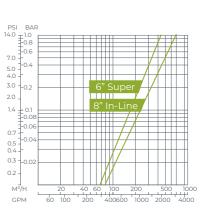
6" Super in-line | 8" in-line





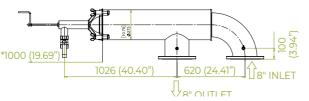


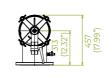


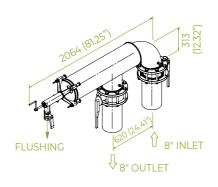


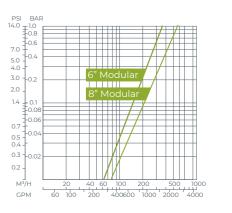
6" Super modular | **8"** modular











Dim: mm (inch)

Semi-Automatic Filters:

Technical Specifications

Technical Specifications Plastic

Filter Type	pe 2"		2" Super	3"	
General Data					
Maximum flow rate*		30 m³/h (132 gpm)	35 m³/h (154 gpm)	60 m³/h (264 gpm)	
Inlet/outlet dia	meter	50 m	80 mm (3")		
Max. operating	pressure				
Max. operating	temperature				
Weight	Brushaway	6 kg (13.2 lb)	6.7 kg (14.8 lb)	7.3 kg (16 lb)	
[empty]	Scanaway	5.1 kg (11.2 lb)	5.9 kg (13 lb)	6.3 kg (13.9 lb)	

 $^{^{*}}$ Consult Amiad for optimum flow depending on filtration degree & water quality.

Engineering Data

Filter Type	2"	2" Super	3"
Filter Element Data			
Filtration area	800 cm² (124 in²)	1,200 cm² (186 in²)	1,200 cm² (186 in²)
Filter element type		Molded St. St. Screen Perforated St. St. Screen	

Construction Materials*

Filter housing & Lid		Reinforced polyamide		
Housing seal		NBR		
Screen		Construction = polypropylene and st. st. 316 Seals = NBR		
Cleaning		S/ST316 Spindle & plastic brush		
mechanism	Scanaway	RPBT		

^{*} Amiad offers a variety of construction materials. Consult us for specifications.

Scanaway Filtration Degree

	Micron	50	80	100	130	200	300	50	00
S	Color Code	•	•	•	•	•	•	•	
Scanaway	Filtration Element		Molded S/S 316 Screen	Molded S/S 316 Screen					
vay	Amiad Plastic Scanaway 2", 2" Super, 3"	V	~	V	V	V	v	~	V
	Amiad Steel Scanaway 3"-8"	V	V	V	V	V	V	~	~

Technical Specifications **Steel**

Filter Type	Filter Type 3" In-Line		4" Super In-Line	6" Compact In-Line	6" Super In-Line/Modular	8" In-Line/Modular
General Data						
Maximum flow rate*		50 m³/h (220 gpm)	100 m³/h (440 gpm)	160 m³/h 160 m³/h (704 gpm) (704 gpm)		300 m³/h (1,320 gpm)
Inlet/outlet diameter		80 mm (3")	100 mm (4")	150 mm (6")		200 mm (8")
Max. operating	pressure			10 bar (145 psi)		
Max. operating	temperature			60°C (140°F)		
Brushaway Weight		16 kg (35.2 lbs)	42.4 kg (93.5 lbs)	47.4 kg (105 lbs)	61 kg (135 lbs)	70 kg (154 lbs)
[empty]	Scanaway	19 kg (42 lbs)	44.5 kg (98 lbs)	50 kg (110 lbs)	63.5 kg (140 lbs)	72 kg (160 lbs)

 $^{^{*}}$ Consult Amiad for optimum flow depending on filtration degree & water quality.

Engineering Data

Filter Type	3" In-Line	4" Super In-Line	6" Compact In-Line	6" Super In-Line/Modular	8" In-Line/Modular	
Filter Element Data						
Filtration area	1,600 cm ² 2,800 cm ² 2,800 cm ² (248 in ²) (434 in ²) (434 in ²)				Ocm² in²)	
Filter element type	Molded St. St. Screen Perforated St. St. Screen					

Construction Materials*

Filter housing		Carbon steel 37-2 with polyester coating			
Filter lid		SMC polyester			
Seals		NBR			
Weavewire screen		Stainless steel 316 with polypropylene + fiber glass and NBR seals			
Perforated screen		Stainless steel 316 and NBR seals			
Cleaning		S/ST316 ROD & RPP Nozzles			
Cleaning mechanism Scanaway		S/ST316 Spindle & plastic			

^{*} Amiad offers a variety of construction materials. Consult us for specifications.

Brushaway Filtration Models Degree

	Micron	200		300		50	500 800		1500	2500	3500
₾	Color Code	•		•		•					
Brusha	Filtration Element	Molded S/S 316 Screen				Molded S/S 316 Screen	Perf. S/S 316 Screen	Perf. S/S 316 Screen			
way	Amiad Plastic Brushaway 2", 2" Super, 3"	V	V	~	~	~	~	~	~	V	V
	Amiad Steel Brushaway 3"-8"	v v		~	~	~	~	~	~	✓	V



3"- 4"- 6" Semi-Automatic
Screen Filters

PSA-SERIES

- Unique economical design
- **■** Corrosion resistant
- Large screen area
- Most suitable for waste water applications
- No need for manual disassembly and cleaning

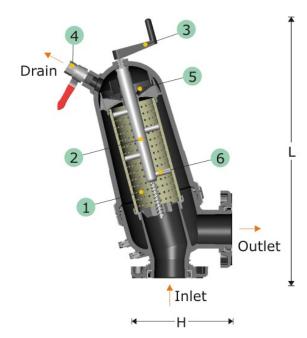


Semi Automatic Screen Filters, Scanaway Suction.
Orders and more information

FILTRATION SYSTEMS

Operation Description - Filtration Mode

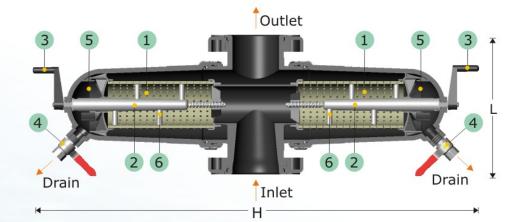
Water enters the filter through the "Inlet", reaching the screen 1, which purifies the water by taking out smaller particles. As more water flows through impurities build up on the screen creating differential pressure between the internal section of the screen 1 and the external section of the screen.



Description

Arkal's 3", 4" and 6" Semi-Automatic filters consist of the following major parts:

- 1 Screen
- 2 Dirt Collector
- 3 Handle
- 4 Flush Valve
- 5 Flush Chamber
- 6 Nozzles



Cleaning Process in Suction Type Filter

When the differential pressure (ΔP) reaches the determined value (no more than 0.8 bar), or according to the timetable specified by the operator, a series of events occurs as the water continues to flow into the system's units.

Before opening the flush valve 4 the operator should check that the dirt collector 2 is fully withdrawn by turning the handle 3 clockwise until it stops. When the flush valve 4 opens, water flows out.

The operator should also check that the pressure in the flush chamber 5 and the dirt collector 2 is significantly reduced, which will create suction through the collector's nozzles 6. Rotating the dirt collector 2 by the handle will cause full scanning of the screen 1 by the nozzles 6. The combination of linear movement and rotation cleans the whole internal screen 1 surface. The flushing cycle will take only a few seconds.

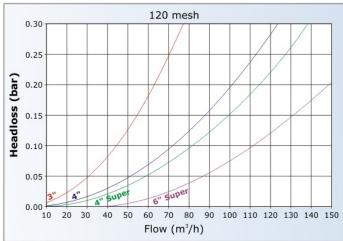
General Technical Data

Max. Pressure: 10 bar / 145 psiMax. Temperature: 60°C / 140°F

- Filtration Grades (currently): 400μ, 200μ, 120μ

Model Number	Connection Size (inch)	Screen Area (cm²)	Max. Flow Rate (M³/h)	L (mm)	H (mm)	Weight (kg)
AKSP3LT	3	1250	60	825	509	12
AKSP3LV	3	1250	60	789	509	12
AKSP3LF	3	1250	60	789	509	13
AKSP4LV	4	1250	90	789	509	13
AKSP4LF	4	1250	90	789	509	14
AKSP4S	4	2500	110	445	1368	26
AKSP6S	6	2500	140	415	1368	28

Headloss Chart



AKSP = Arkal Semi Automatic Polypropylene

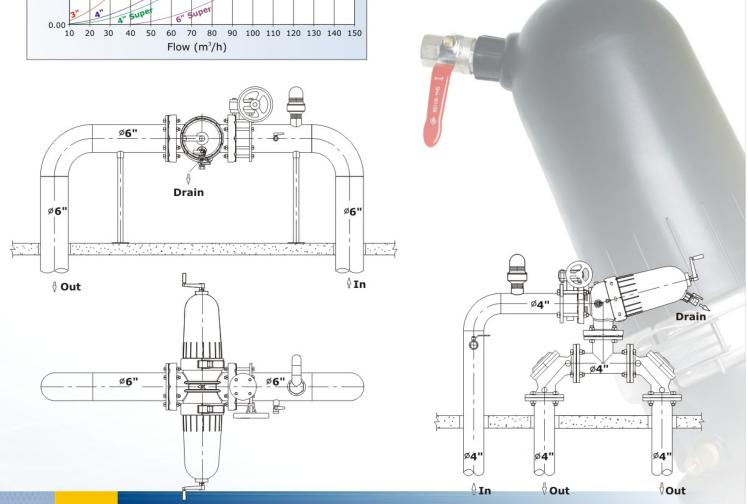
L = Angel filter connection

T = Threaded filter connection

V = Victaulic filter connection

F = Flanged filter connection

S = Super leader filter (inline filter connection)



lications











Ordering Amiad Arkal Semi Automatic Filters from www.irrigationglobal.com



PARKAL

Email: service@irrigationglobl.com