



FILTOMAT
M100/ MG

Self-cleaning
screen filter

MASTERS OF FILTRATION



Anywhere



Any Water Source



Any Technology

**Farming is
our heritage.**
**Filtration is our
legacy.**

At Amiad, our roots are in the land. As farmers, we learned at firsthand what our crops need to thrive. We understand that every water source is different, and how water quality can greatly affect crop yield.

The filter is the first vital link in the irrigation chain. It's there to protect irrigation systems from damage, while delivering the best quality water.

We develop filters that are able to cope with any water quality, in any geographical location.

We've spent years mastering filtration technology so we can offer a wide range of filters for every farmer's needs including screen, disc or media technology. Our fully automated filtration systems save time, manpower and costs.

We consider every challenge as an opportunity to work side by side with our customers to solve their problems. We'll go anywhere to ensure our filters perform as expected, 24/7, every day of the year.

When you want a high performance filter for your irrigation system, consult with Amiad. We focus on doing what we do best.

Amiad. Masters of Filtration.



Disc
Technology

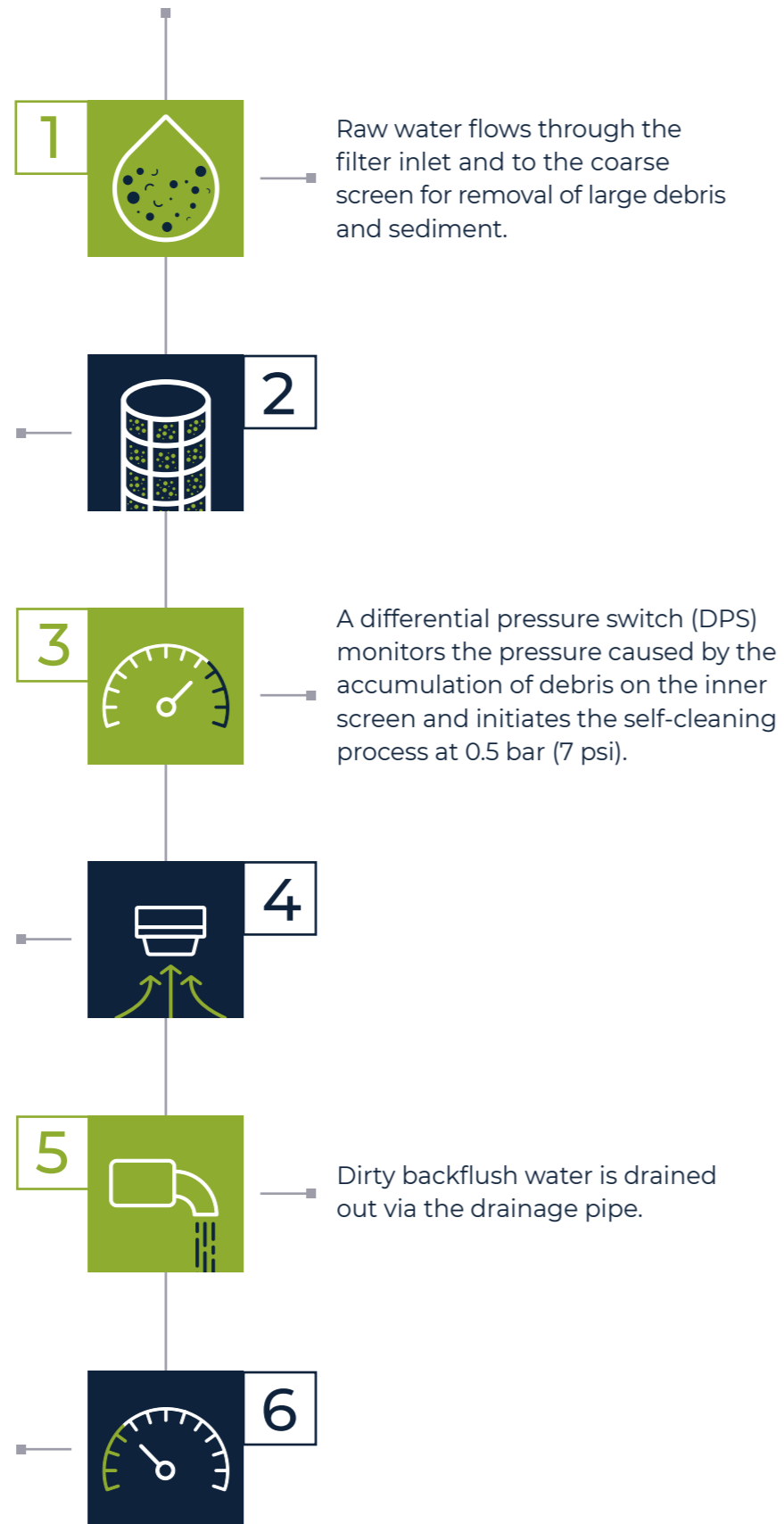


Screen
Technology



Media
Technology

The Filtration Process



Water then passes through the fine screen for removal of the remaining small particles.

The flush valve opens to the atmosphere to create a strong suction force at the scanner nozzles, effectively removing dirt particles from the screen.

After efficient cleaning, the DP returns to its original value, enabling the filter to operate continuously without downtime.

FILTOMAT FEATURES



Simple construction



Reliable and durable



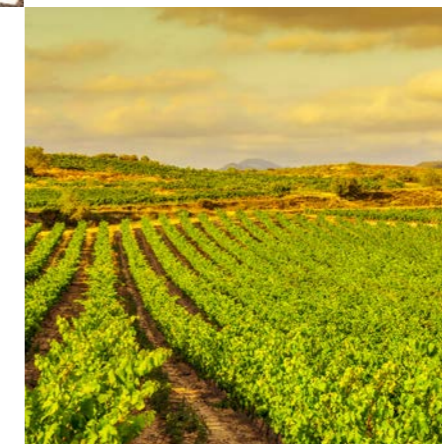
Easy maintenance - disassembles in only 5 parts



Automatic flushing according to pressure differential or set time

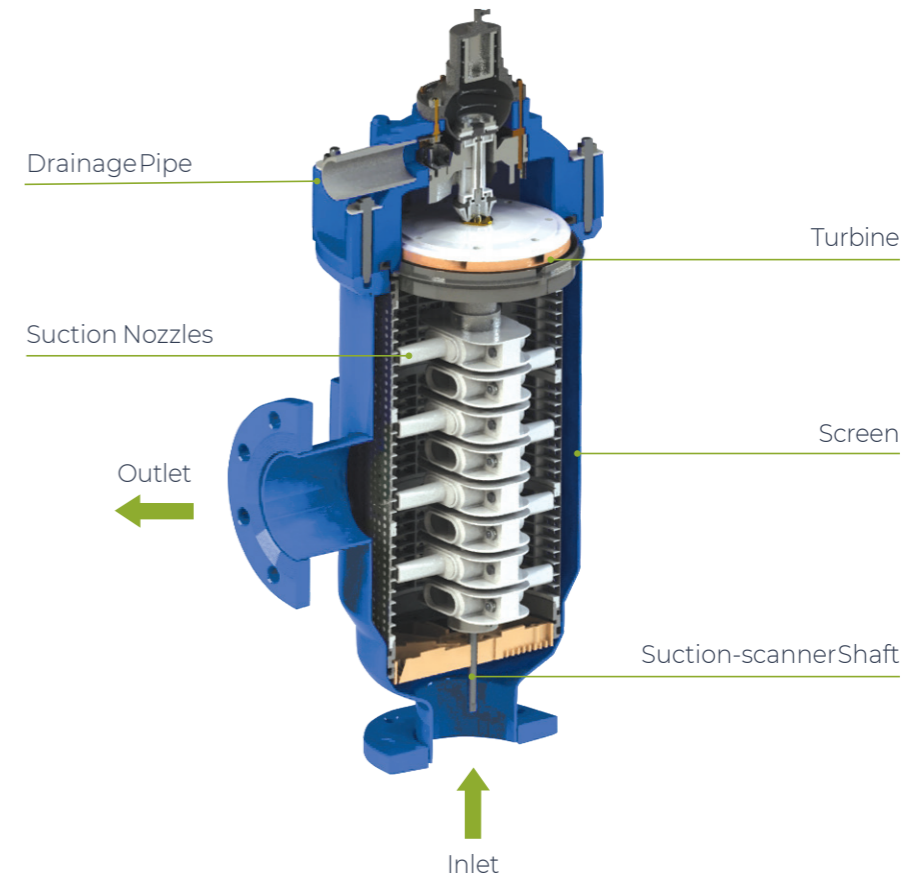
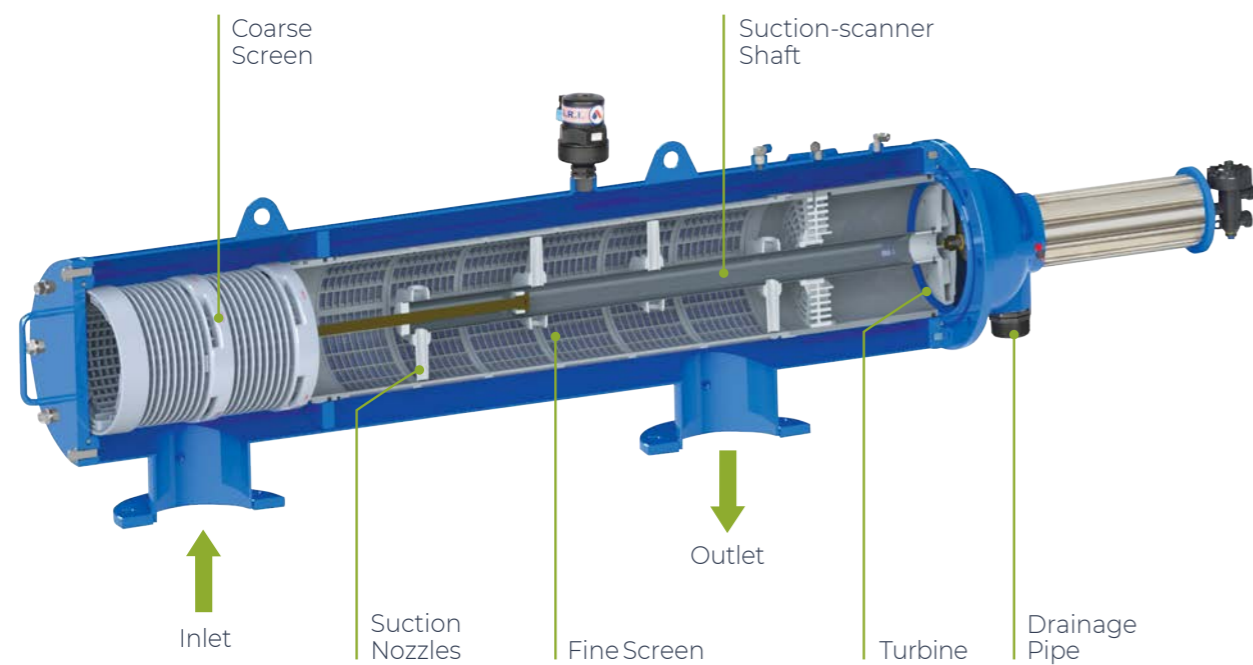


Specifically designed for agricultural filtration needs



No interruption of downstream flow during flushing

FILTOMAT: An Inside Look



Filtomat M100 Models

Available as a stand alone or as filter bank assembly, with a single ADI-P electronic control system.

M102C/M103C: ≤ 40 m³/h (176 gpm)

M103CL/M104C: ≤ 80 m³/h (350 gpm)

M104CL: ≤ 100 m³/h (440 gpm)

M104LPN/M106LP: ≤ 180 m³/h (793 gpm)

M104XLP/M106XLP/M108LP/M110P: ≤ 400 m³/h (1,760 gpm)



Filtomat MG Models

Modular configuration, available as a stand alone or as filter bank assembly, with a single ADI-P electronic control system.

Delivered fully assembled and requiring a single connection to the inlet, outlet and drain.

MG110 (2 x 108LP): ≤ 400 m³/h (1,760 gpm)

MG112 (3 x 108LP): ≤ 600 m³/h (2,640 gpm)

MG114 (4 x 108LP): ≤ 800 m³/h (3,520 gpm)





ADI-P: the control is in your hands



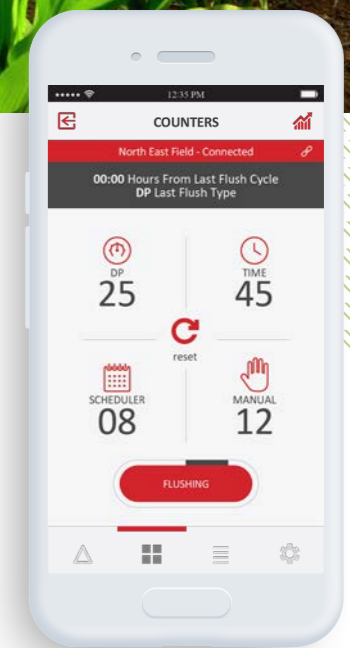
The ADI-P Controller

The ADI-P Controller operates the automated processes that flush your Filtomat filters, allowing you to control and monitor them easily and conveniently.



The ADI-P App

Access your site's filtration performance data directly from the ADI-P app. Here are some of the data that you can access via the ADI-P app:



- Flush logs
- Flush frequency
- Current DP
- Current outlet and inlet pressure
- Flush quality - measuring DP on the filter before and after flush cycle
- Malfunctions with descriptions of each event
- Battery status and low battery alerts



Suitable for low pressure (1.5-10 bar)



Single or dual solenoid configuration



Provides detailed filtration performance data



Communication within **Bluetooth®** technology range



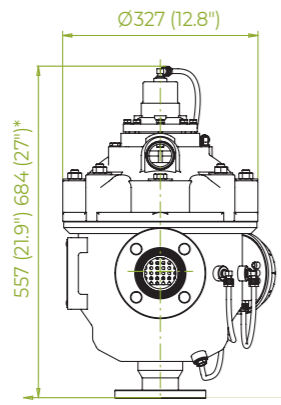
Offline information storage available

M100 Models

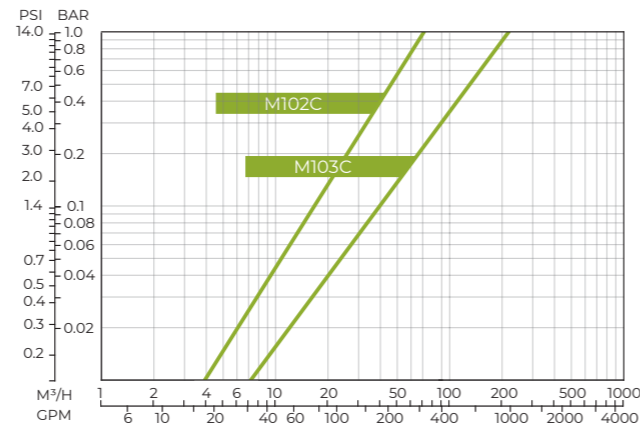
M102C / M103C



Typical Dimensional Drawing
mm (inch)



Head Loss Graph (in clean water)

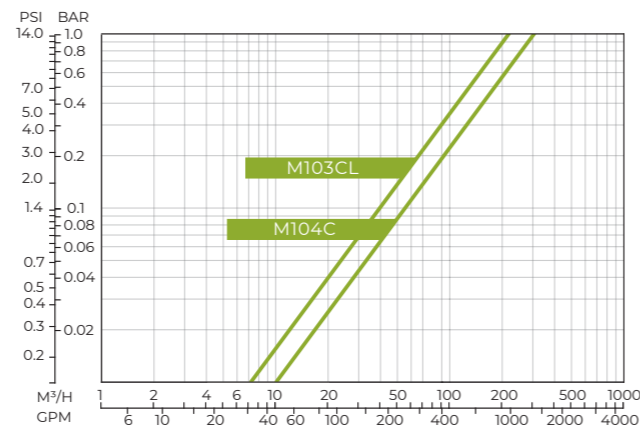
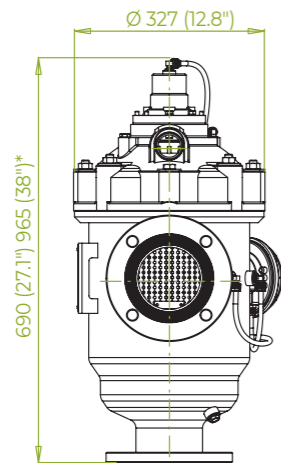


Technical Specifications - M100 Models

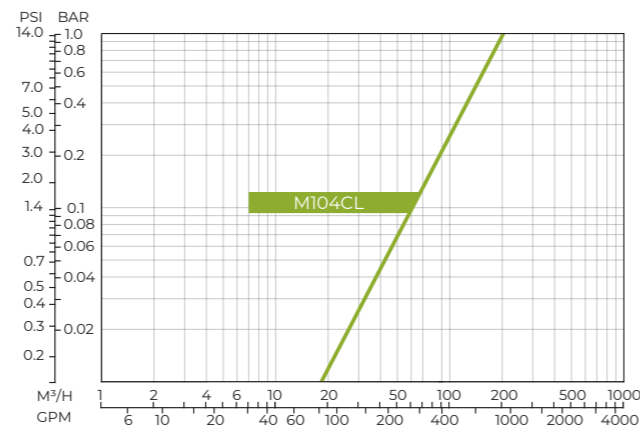
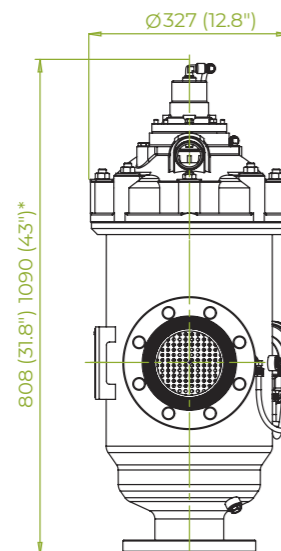
Filter Model	M102C / M103C	M103CL / M104C	M104CL
General Data			
Maximum flow rate*	40 m ³ /h (175 gpm)	80 m ³ /h (350 gpm)	100 m ³ /h (440 gpm)
Inlet/Outlet diameter	2" (50 mm) 3" (80 mm)	3" (80 mm) 4" (100 mm)	4" 100 (mm)
Standard filtration degrees	500, 300, 200, 130, 100, 80 micron		
Minimum working pressure	2 bar (30 psi) For lower pressure please consult Amiad		
Maximum working pressure	8 bar (116 psi)		
Maximum working temperature	55°C (131°F)		
Weight [empty]	2" 22 kg (48.5 lb) 3" 25 kg (55 lb)	3" 30 kg (66 lb) 4" 35 kg (77 lb)	4" 50 kg (110 lb)

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

M103CL / M104C



M104CL



Flushing Data			
Minimum flow for flushing (at 2 bar - 30 psi)	15 m ³ /h (66 gpm)	20 m ³ /h (88 gpm)	22 m ³ /h (97 gpm)
Reject water volume per flush cycle (at 2 bar - 30 psi)	15 liter (4 gallon)	20 liter (5.2 gallon)	28 liter (7.3 gallon)
Flushing cycle time	10 seconds		
Exhaust valve	1.5" (40 mm)		
Flushing criteria	Differential pressure of 0.5 bar (7 psi), time intervals or manual operation		

Screen Data			
Total filtration area	1,300 cm ² (202 in ²)	2,120 cm ² (329 in ²)	3,000 cm ² (465 in ²)
Net filtration area	750 cm ² (116 in ²)	1,500 cm ² (232 in ²)	2,250 cm ² (349 in ²)
Screen types	Molded weavewire stainless steel 316L		

Construction Materials	
Filter housing	Epoxy-coated carbon steel 37-2 (stainless steel 316L on request)
Filter lid	High density polypropylene, epoxy coated carbon steel 37-2 (stainless steel 316L on request)
Cleaning mechanism	PVC and stainless steel 316L
Exhaust valve	Brass, stainless steel 316L, BUNA-N
Seals	BUNA-N
Command tubing	PE (polyethylene)

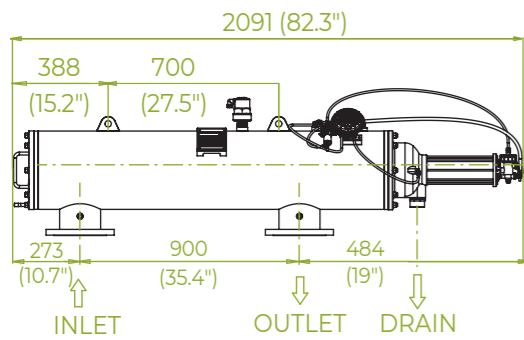
*Approx. length required for maintenance

M100 Models

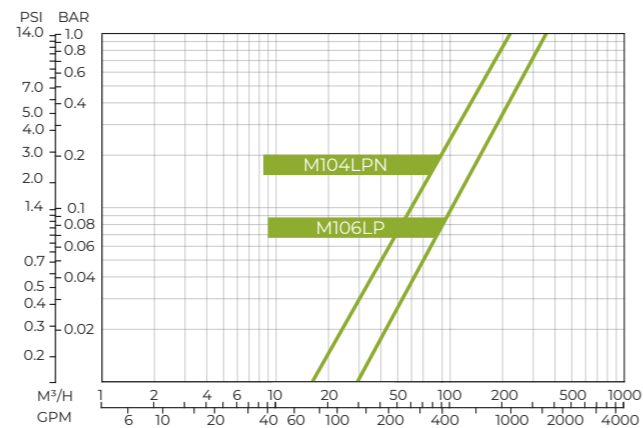
M104LPN / M106LP



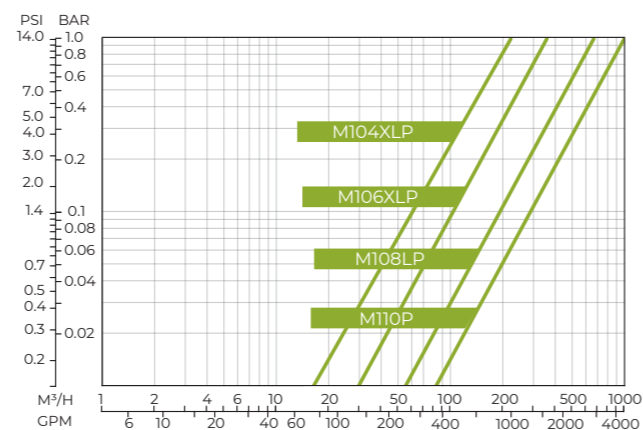
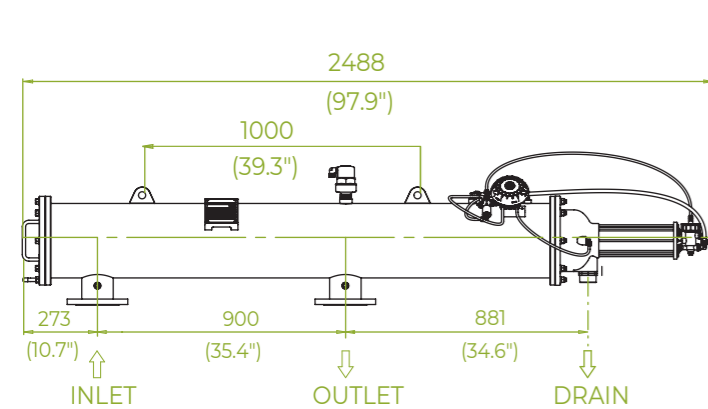
Typical Dimensional Drawing
mm (inch)



Head Loss Graph (in clean water)



M104XLP / M106XLP / M108LP / M110P



*Approx. length required for maintenance

Technical Specifications - M100 Models

Filter Model	M104LPN / M106LP	M104XLP / M106XLP / M108LP / M110P
General Data		
Maximum flow rate*	180 m ³ /h (793 gpm)	400 m ³ /h (1,760 gpm)
Inlet/Outlet diameter	4" (100 mm) 6" (150 mm)	4" (100 mm) 6" (150 mm) 8" (200 mm) 10" (250 mm)
Standard filtration degrees	500, 300, 200, 130, 100, 80 micron	
Minimum working pressure	2 bar (30 psi) For lower pressure please consult Amiad	
Maximum working pressure	10 bar (150 psi)	
Maximum working temperature	55°C (131°F)	
Weight [empty]	4" 90 kg (198 lb) 6" 115 kg (253.5 lb)	4" 110 kg (242.5 lb) 6" 120 kg (264.5 lb) 8" 140 kg (308.6 lb) 10" 158 kg (348 lb)

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

Flushing Data		
Minimum flow for flushing (at 2 bar - 30 psi)	26 m ³ /h (114 gpm)	30 m ³ /h (132 gpm)
Reject water volume per flush cycle (at 2 bar - 30 psi)	125 liter (33 gallon)	150 liter (40 gallon)
Flushing cycle time	15 seconds	
Exhaust valve	1.5" (40 mm)	
Flushing criteria	Differential pressure of 0.5 bar (7 psi), time intervals or manual operation	

Screen Data		
Total filtration area	6,150 cm ² (953 in ²)	8,890 cm ² (1,378 in ²)
Net filtration area	4,500 cm ² (698 in ²)	6,800 cm ² (1,054 in ²)
Screen types	Molded weavewire stainless steel 316L	

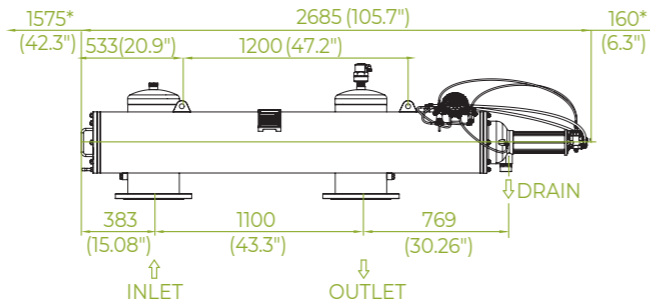
Construction Materials		
Filter housing	Epoxy-coated carbon steel 37-2 (stainless steel 316L on request)	
Filter lid	High density polypropylene, epoxy coated carbon steel 37-2 (stainless steel 316L on request)	
Cleaning mechanism	PVC and stainless steel 316L	
Exhaust valve	Brass, stainless steel 316L, BUNA-N	
Seals	BUNA-N	
Command tubing	PE (polyethylene)	

MG Models

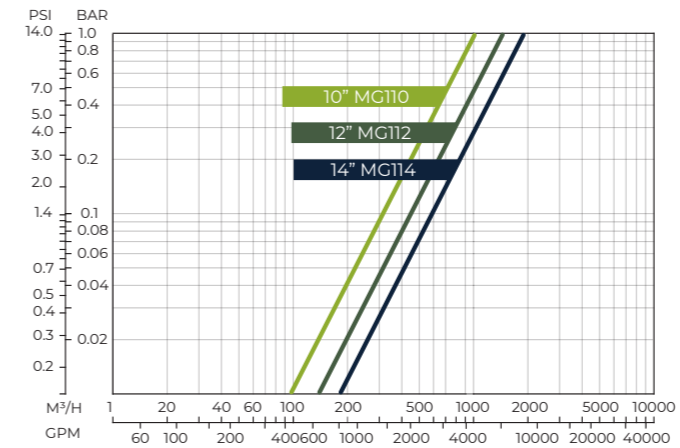
MG110



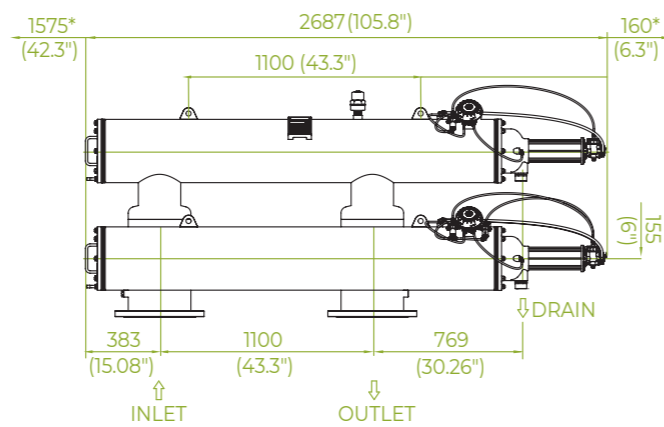
Typical Dimensional Drawing
mm (inch)



Head Loss Graph (in clean water)



MG112

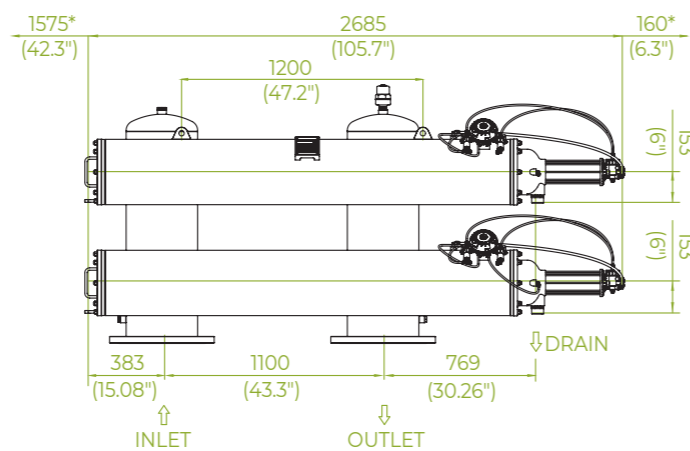


Technical Specifications - MG Models

Filter Model	MG110	MG112	MG114
General Data			
Maximum flow rate*	400 m ³ /h (1,760 gpm)	600 m ³ /h (2,640 gpm)	800 m ³ /h (3,520 gpm)
Inlet/Outlet diameter	10" (250 mm)	12" (300 mm)	14" (350 mm)
Standard filtration degrees	500, 300, 200, 130, 100, 80 micron		
Minimum working pressure	2 bar (30 psi) For lower pressure please consult Amiad		
Maximum working pressure	10 bar (150 psi)		
Maximum working temperature	55°C (131°F)		
Weight [empty]	325 kg (717 lb)	480 kg (1,054 lb)	723 kg (1,590 lb)

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

MG114



*Approx. length required for maintenance

Flushing Data

Minimum flow for flushing (at 2 bar - 30 psi)	30 m ³ /h (132 gpm)		
Reject water volume per flush cycle (at 2 bar - 30 psi)	300 liter (80 gallon)	450 liter (120 gallon)	600 liter (160 gallon)
Flushing cycle time	30 seconds	45 seconds	60 seconds
Exhaust valve	1.5" (40mm)		
Flushing criteria	Differential pressure of 0.5 bar (7 psi), time intervals or manual operation		

Screen Data

Total filtration area	17,780 cm ² (2,756 in ²)	26,670 cm ² (4,134 in ²)	35,560 cm ² (5,512 in ²)
Net filtration area	13,600 cm ² (2,108 in ²)	20,400 cm ² (3,162 in ²)	27,200 cm ² (4,216 in ²)
Screen types	Molded weavewire, stainless steel 316L		



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 **amiad** IRRIGATION

MASTERS OF FILTRATION

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