Lama AutoMesh SCREEN FILTER

AutoMesh is a electric operated, self-cleaning screen filter with a robust design and minimal moving parts, engineered to retain suspended solids and ensure reliable, continuous filtration.

PRES MAX 150 psi / 10 kg/cm²

Available PRES MAX 235 psi / 16 kg/cm²

nanoPLUS TECHNOLOGY | STANDARD 120 mesh (130 µm)

35 psi BACKWASHING PRESSURE



System

The Automesh is an electric commanded, high-performance automatic screen filter engineered for continuous operation and maximum filtration efficiency. Its horizontal design allows easy maintenance and provides a large effective filtration area while maintaining low head loss. The suction cleaning mechanism has an unique design scanner that ensures stable, fast and reliable cleaning.

Designed for demanding water conditions across municipal, industrial, and irrigation applications.

Cleaning

The screen filters are compact, modular systems with a large filtration surface area, designed for easy installation and operation at high superficial velocities. Filtration is achieved by retaining suspended solids on a stainless steel screen in an inside-out flow configuration, while filtration and self-cleaning operate simultaneously to ensure uninterrupted flow.

Cleaning is automatically activated by differential pressure or time and is performed by a suction mechanism after opening the flushing valve, allowing operation with minimal head loss even at high flow rates.

Materials

- Body: carbon steel
- Gaskets: NBR. Synthetic rubber nitrile 60° Shore
- Screen: stainless steel (standard AISI 316; other stainless steel grades available upon request)
- Screws: zinc-plated corrosion-resistant for outdoor use
- Suction scanner: stainless steel AISI 316

Coating

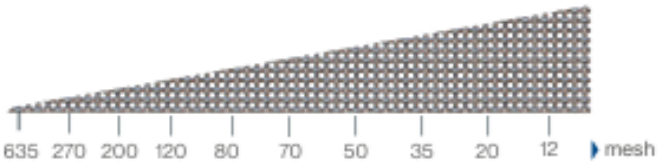
The automatic screen filters are treated both internally and externally with our NANOTECHNOLOGY + surface treatment. They are then coated with electrostatic powder paint (epoxy-polyester).

Pressures

- Max. pressure: 150 psi
- Min. pressure: 15 psi
- Min. cleaning pressure: 35 psi
- Testing pressure: 210 psi
- Available pressure: 235 psi

Filtration Element

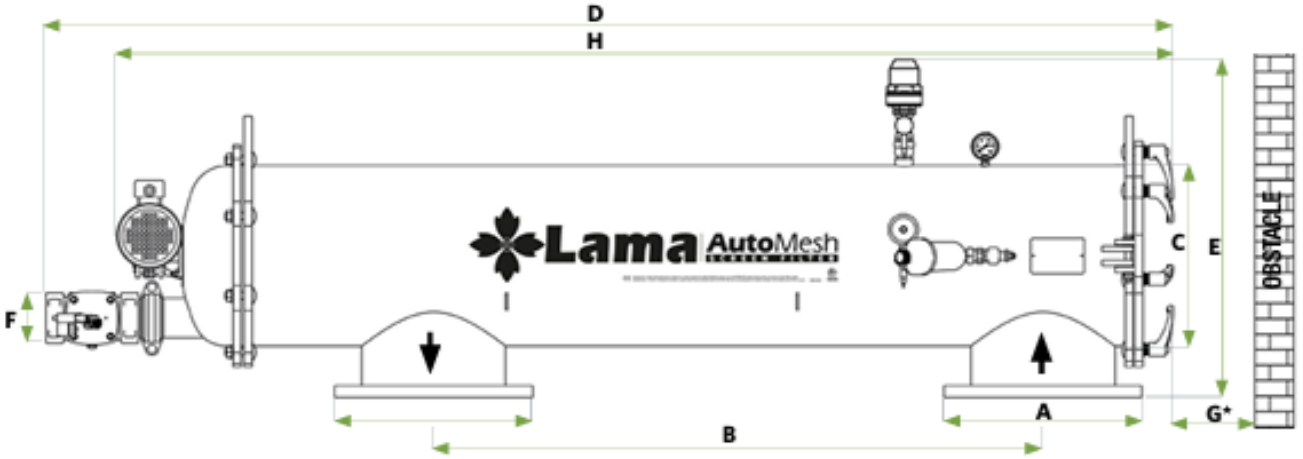
Stainless steel screen injected in a polyamide tubular structure. For our automatic filters the standard screen is 120 mesh (130 µm). Other screen options are available, ranging from 12 mesh (1,500 µm) down to 635 mesh (20 µm).



In the approval stage

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Automatic Electric Screen Filter AutoMesh



G*: security area for the cartridge removal.

Dimensions													Code
A (Ø)	B		C		D		E		F (Ø)	G		H		
ft	ft + in	mm	ft + in	mm	ft + in	mm	ft + in	mm	ft	ft + in	mm	ft + in	mm	
4" Flange	1 ft 5 11/16 in	450	1 ft 4 in	406	5 ft 2 5/8 in	1,590	2 ft 5 15/16 in	760	3" Thread	4 ft 2 in	1,270	4 ft 8 11/16 in	1,440	AM4SSF
4" Flange	2 ft 7 1/2 in	800	1 ft 4 in	406	6 ft 6 9/16 in	1,995	2 ft 5 3/16 in	741	3" Thread	4 ft 2 in	1,270	6 ft 1/4 in	1,835	AM6B4SSF
6" Flange	2 ft 7 1/2 in	800	1 ft 4 in	406	6 ft 7 1/8 in	2,010	2 ft 5 15/16 in	760	3" Thread	4 ft 2 in	1,270	6 ft 7/16 in	1,840	AM6SSF
8" Flange	3 ft 7 5/16 in	1,100	1 ft 4 in	406	7 ft 7/16 in	2,145	2 ft 5 15/16 in	760	3" Thread	4 ft 7 5/16 in	1,405	6 ft 5 3/4 in	1,975	AM8SSF
10" Flange	3 ft 7 5/16 in	1,100	1 ft 4 in	406	7 ft 11 1/16 in	2,415	2 ft 5 15/16 in	760	3" Thread	5 ft 5 15/16 in	1,675	7 ft 4 3/16 in	2,240	AM10SSF
12" Flange	4 ft 5 15/16 in	1,370	1 ft 4 in	406	8 ft 4 3/8 in	2,550	2 ft 5 15/16 in	760	3" Thread	5 ft 11 1/4 in	1,810	7 ft 9 11/16 in	2,380	AM12SSF
14" Flange	4 ft 5 15/16 in	1,370	1 ft 4 in	406	7 ft 11 1/16 in	2,415	2 ft 7 5/16 in	795	3" Thread	4 ft 7 1/8 in	1,400	7 ft 9 11/16 in	2,380	A14ETXLSSF

Net Weight		Package						Code
		Dimension		Weight		Volume		
lb	kg	ft + in	mm	lb	kg	ft³	m³	
419	190	74 13/16 in × 27 9/16 in × 33 7/16 in	1,900x700x850	463	210	36.16	1,024	AM4SSF
430	195	74 13/16 in × 27 9/16 in × 33 7/16 in	1,900x700x850	472	214	36.16	1,024	AM6B4SSF
430	195	74 13/16 in × 27 9/16 in × 33 7/16 in	1,900x700x850	472	214	36.16	1,024	AM6SSF
463	210	80 11/16 in × 27 9/16 in × 33 7/16 in	2,050x700x850	551	250	39.02	1,105	AM8SSF
518	235	91 5/16 in × 27 9/16 in × 33 7/16 in	2,320x700x850	606.5	275	44.14	1,250	AM10SSF
608.5	276	100 in × 27 9/16 in × 34 1/4 in	2,540x700x870	666	302	54.60	1,546	AM12SSF
1,157.5	525	98 7/16 in × 32 5/16 in × 33 7/16 in	2,500x820x850	1,256.5	570	67.80	1,920	A14ETXLSSF

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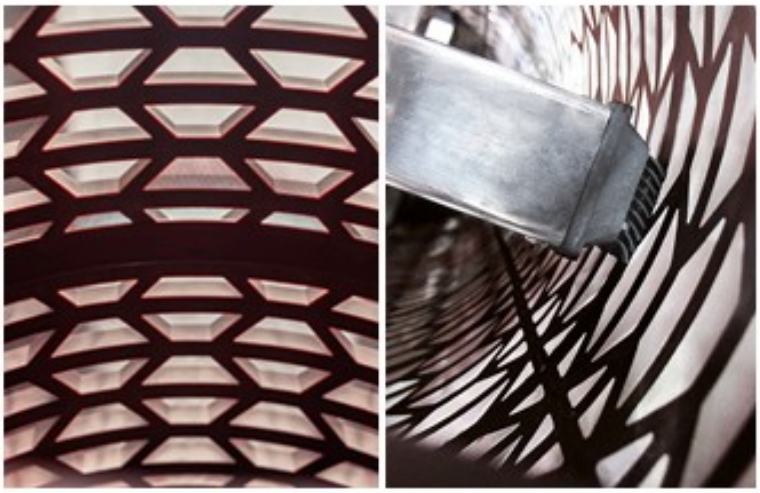
Lama AutoMesh
SCREEN FILTER

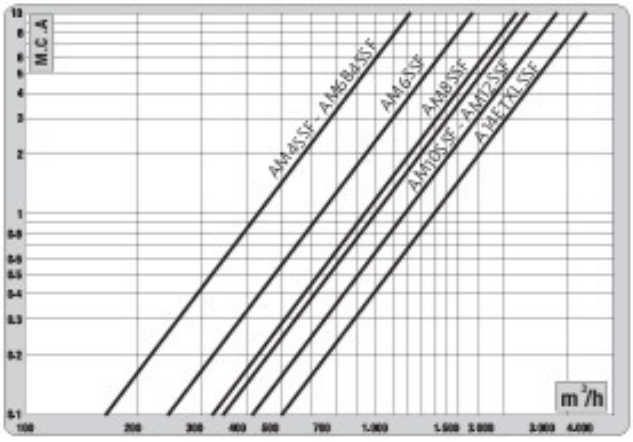
Automatic Electric Screen Filter AutoMesh



Features

- Horizontal design allows easy maintenance by a single door
- Large effective filtration surface, allowing filter to cope with high solids load
- Section screen, which minimizes maintenance costs.
- Fast cleaning cycle without filtration interruptions
- Low head loss even under variable operating conditions
- Suitable for municipal, industrial, and irrigation systems





HEAD LOSS * 1 m³/h = 4.4 gpm / 0.1 bar = 1.45 psi

Maximum Recommended				Screen Surface		Filtration Surface		Backwashing					Nº of Cartridges Section	Code
< 50 mg/L good water		50/100 mg/L average water						Flow		Water Quantify		Time (minimum)		
gpm	m³/h	gpm	m³/h	in²	cm²	in²	cm²	gpm	m³/h	us gal	ℓ			
964	219	581	132	927	5.980	1,249	8,058	330	75	27.7	105	5"	5 x T28P13S	AM4SSF
1,541	350	929	211	1,483	9,568	1,998	12,893	528	120	44	167	5"	8 x T28P13S	AM6B4SSF
1,541	350	929	211	1,483	9,568	1,998	12,893	528	120	44	167	5"	8 X T28P13S	AM6SSF
1,735	394	1,043	237	1,668	10,764	2,184	14,089	594	135	50	188	5"	9 x T28P13S	AM8SSF
2,118	481	1,277	290	2,039	13,156	2,555	16,481	726	165	60,5	229	5"	11 x T28P13S	AM10SSF
2,312	525	1,396	317	2,225	14,677	2,740	17,677	793	180	66	250	5"	12 x T28P13S	AM12SSF
2,946	805	1,783	405	2,839	18,313	4,500	29,030	925	210	77	292	5"	1 x PVC400	A14ETXLSSF

In the approval stage