# EkoLU

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

PRES 150 MAX psi
10 Kg/cm2

Available
PRES 235 MAX psi
16 Kg/cm2

35 psi
BACKWASHING PRESSURE

nanoPLUS+ TECHNOLOGY

STANDARD
**120 mesh** (130 µm)




## System

The EkoLu automatic self-cleaning screen filter is designed for irrigation and water treatment applications and can operate with different water sources, including surface water, wells, and reclaimed water.
Suspended solids are retained on the inner surface of the screen, while a prefilter cartridge removes coarse debris, reducing load and limiting head loss. As solids accumulate, differential pressure increases and automatically activates the hydraulic backwash cycle, ensuring continuous filtration under demanding operating conditions.

## Cleaning

During backwashing, a suction scanner with rubber nozzles moves along the screen surface, performing vacuum cleaning to remove the retained solids and discharge them through the drain. The cleaning process is fast and efficient, allowing filtration to continue uninterrupted using the system's own hydraulic energy, with no external power required.
Filtration continues uninterrupted, using the system's own hydraulic energy, with no external power required.

## Materials

- Body: carbon steel
- Gaskets: NBR. Synthetic rubber nitrile 60º 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

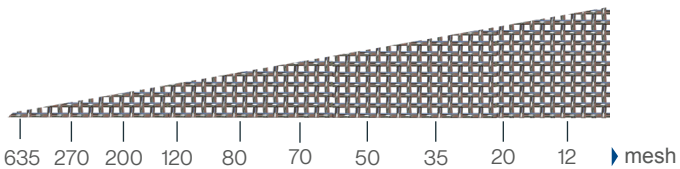
The automatic screen filters are treated both internally and externally with our NANOTECHNOLOGY + surface treatment. They are then coated with electrostatic powder paint (epoxy-polyester).

## 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).



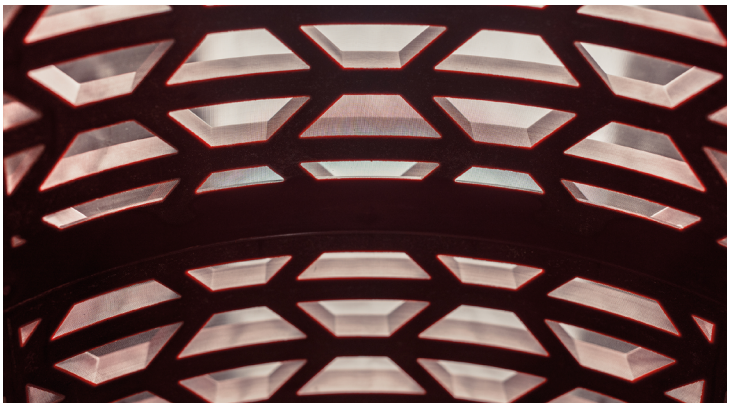

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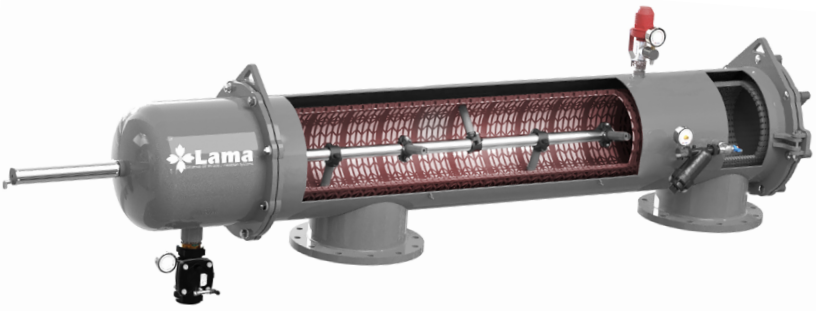
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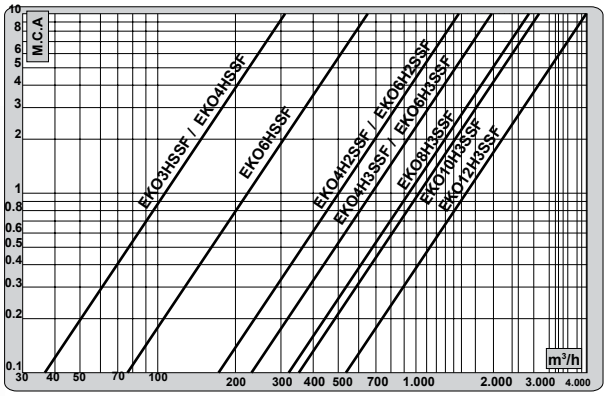
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In the approval stage

# Automatic Hydraulic Screen Filter EkoLU








**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| < 50mg/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 | | | |
| 308 | 70 | 163 | 37 | 247 | 1,593 | 524 | 3,378 | 27 | 6.2 | 9.1 | 34.4 | 20" | 2 x T14P176 | EKO3HSSF |
| 308 | 70 | 163 | 37 | 247 | 1,593 | 524 | 3,378 | 27 | 6.2 | 9.1 | 34.4 | 20" | 2 x T14P176 | EKO4HSSF |
| 1,233 | 280 | 652 | 148 | 987 | 6,370 | 1,264 | 8,155 | 68 | 15.5 | 56.8 | 215 | 50" | 8 x T14P176 | EKO4H2SSF |
| 1,540 | 350 | 929 | 211 | 1,482 | 9,568 | 1,998 | 12,893 | 55 | 1.4 | 45.4 | 172 | 50" | 8 x T28P135 | EKO4H3SSF |
| 616 | 140 | 326 | 74 | 494 | 3,185 | 770 | 4,970 | 55 | 12.4 | 18.2 | 68.8 | 20" | 4 x T14P176 | EKO6HSSF |
| 1,233 | 280 | 652 | 148 | 987 | 6,370 | 1,264 | 8,155 | 68 | 15.5 | 56.8 | 215 | 50" | 8 x T14P176 | EKO6H2SSF |
| 1,540 | 350 | 929 | 211 | 1,482 | 9,568 | 1,998 | 12,893 | 55 | 12.4 | 45.4 | 172 | 50" | 8 x T28P135 | EKO6H3SSF |
| 1,158 | 263 | 696 | 158 | 1,112 | 7,176 | 1,499 | 9,670 | 41 | 9.3 | 34.1 | 129 | 50" | 6 x T28P135 | EKO8H3CSSF |
| 1,734 | 394 | 1,043 | 237 | 1,668 | 10,764 | 2,184 | 14,089 | 68 | 15.5 | 56.8 | 215 | 50" | 9 x T28P135 | EKO8H3SSF |
| 2,118 | 481 | 1,277 | 290 | 2,040 | 13,156 | 2,555 | 16,481 | 82 | 18.6 | 68.2 | 258 | 50" | 11 x T28P135 | EKO10H3SSF |
| 2,310 | 525 | 1,396 | 317 | 2,225 | 14,352 | 2,740 | 17,677 | 82 | 18.6 | 68.2 | 258 | 50" | 12 x T28P135 | EKO12H3SSF |

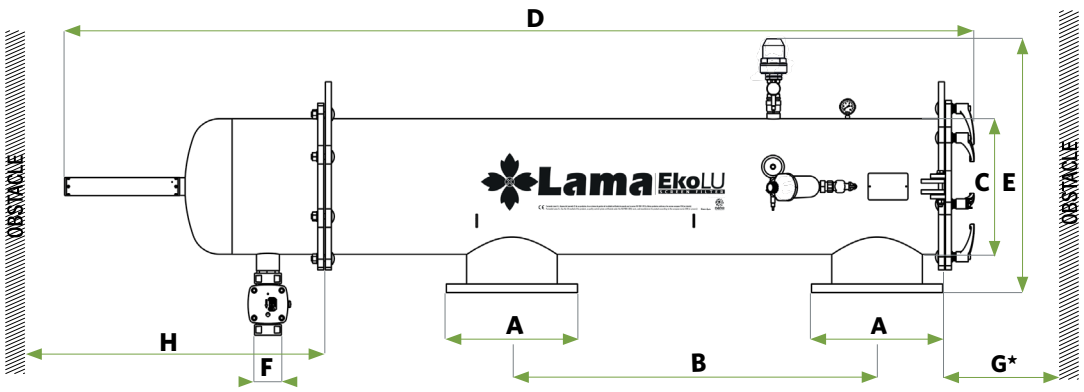
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# Automatic Hydraulic Screen Filter EkoLU




**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 | |
| 3" Flange | 1 ft 5 11/16 in | 450 | 8 11/16 in | 220 | 4 ft 13/16 in | 1,240 | 1 ft 2 9/16 in | 370 | 1" H | 1 ft 2 in | 355 | 1 ft 2 3/8 in | 365 | EKO3HSSF |
| 4" Flange | 1 ft 5 11/16 in | 450 | 8 11/16 in | 220 | 4 ft 13/16 in | 1,240 | 1 ft 2 9/16 in | 370 | 1" H | 1 ft 2 in | 355 | 1 ft 2 3/8 in | 365 | EKO4HSSF |
| 4" Flange | 2 ft 11 7/16 in | 900 | 1 ft 4 in | 220 | 8 ft 6 3/8 in | 2,600 | 1 ft 2 9/16 in | 370 | 2" H | 1 ft 2 in | 355 | 4 ft 7 15/16 in | 1,421 | EKO4H2SSF |
| 4" Flange | 1 ft 5 11/16 in | 450 | 8 11/16 in | 406 | 7 ft 5 3/4 in | 2,280 | 2 ft 5 15/16 in | 760 | 2" H | 4 ft 2 in | 1,270 | 2 ft 11 7/16 in | 900 | EKO4H3SSF |
| 6" Flange | 2 ft 5 1/2 in | 750 | 8 11/16 in | 220 | 5 ft 3 in | 1,600 | 1 ft 2 9/16 in | 370 | 1" ½ H | 1 ft 2 in | 355 | 2 ft 4 1/4 in | 717 | EKO6HSSF |
| 6" Flange | 2 ft 11 7/16 in | 900 | 1 ft 4 in | 220 | 8 ft 6 3/8 in | 2,600 | 1 ft 2 9/16 in | 370 | 2" H | 1 ft 2 in | 355 | 4 ft 7 15/16 in | 1,421 | EKO6H2SSF |
| 6" Flange | 2 ft 7 1/2 in | 800 | 1 ft 4 in | 406 | 7 ft 5 3/4 in | 2,280 | 2 ft 5 15/16 in | 760 | 2" H | 4 ft 2 in | 1,270 | 2 ft 11 7/16 in | 900 | EKO6H3SSF |
| 8" Flange | 2 ft 4 5/16 in | 719 | 1 ft 4 in | 406 | 6 ft 9 5/16 in | 2,065 | 2 ft 5 15/16 in | 760 | 2" H | 3 ft 7 5/16 in | 1,100 | 2 ft 11 7/16 in | 900 | EKO8H3CSSF |
| 8" 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 | 2" H | 4 ft 7 5/16 in | 1,405 | 2 ft 11 7/16 in | 900 | EKO8H3SSF |
| 10" Flange | 3 ft 7 5/16 in | 1,100 | 1 ft 4 in | 406 | 8 ft 9 11/16 in | 2,685 | 2 ft 5 15/16 in | 760 | 2" H | 5 ft 5 15/16 in | 1,675 | 2 ft 11 7/16 in | 900 | EKO10H3SSF |
| 12" Flange | 4 ft 5 15/16 in | 1,370 | 1 ft 4 in | 406 | 9 ft 3 in | 2,820 | 2 ft 5 15/16 in | 760 | 2" H | 5 ft 11 1/4 in | 1,810 | 2 ft 11 7/16 in | 900 | EKO12H3SSF |

| Net Weight | | Package | | | | | | Code |
|---|---|---|---|---|---|---|---|---|
| | | Dimension | | Weight | | Volume | | |
| lb | kg | ft + in | mm | lb | kg | $ft^3$ | $m^3$ | |
| 97 | 44 | 49 3/16 x 31 1/2 x 23 5/8 in | 1,250x800x600 | 147.5 | 67 | 21.19 | 0.600 | EKO3HSSF |
| 99 | 45 | 49 3/16 x 31 1/2 x 23 5/8 in | 1,250x800x600 | 150 | 68 | 21.19 | 0.600 | EKO4HSSF |
| 220.5 | 100 | 94 1/2 x 27 9/16 x 22 1/16 in | 2,400x700x560 | 258 | 117 | 33.20 | 0.940 | EKO4H2SSF |
| 408 | 185 | 81 1/2 x 27 9/16 x 33 7/16 in | 2,070x700x850 | 498 | 226 | 43.44 | 1.23 | EKO4H3SSF |
| 128.5 | 58.20 | 57 1/16 x 31 1/2 x 23 5/8 in | 1,450x800x560 | 177 | 80.2 | 22.92 | 0.649 | EKO6HSSF |
| 233.5 | 106 | 94 1/2 x 27 9/16 x 22 1/16 in | 2,400x700x560 | 271 | 123 | 33.20 | 0.940 | EKO6H2SSF |
| 419 | 190 | 80 11/16 x 27 9/16 x 33 7/16 in | 2,050x700x850 | 498 | 226 | 43.05 | 1.219 | EKO6H3SSF |
| 441 | 200 | 80 11/16 x 27 9/16 x 33 7/16 in | 2,050x700x850 | 560 | 254 | 43.05 | 1.219 | EKO8H3CSSF |
| 480.5 | 218 | 80 11/16 x 27 9/16 x 33 7/16 in | 2,050x700x850 | 560 | 254 | 43.05 | 1.219 | EKO8H3SSF |
| 529 | 240 | 86 5/8 x 27 9/16 x 33 7/16 in | 2,200x700x850 | 606.5 | 275 | 46.23 | 1.309 | EKO10H3SSF |
| 560 | 254 | 100 x 27 9/16 x 34 1/4 in | 2,540x700x870 | 617.5 | 280 | 54.60 | 1.546 | EKO12H3SSF |

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