

AZUD LUXON

AZUD LUXON MFE

Automatic electric screen filters suitable for all applications, and available in a wide range of micron sizes, all with the same high quality guarantee of AZUD.



ADVANTAGES

- ✓ **Energy Efficient:** The consumption of water in the flushing cycle is minimal.
- ✓ **Wide selection of screens:** Filtration degrees 80, 100, 125, 200, 300, 500 and 1000 micron.
- ✓ **Versatility:** Inlet/Outlet from 4" to 12" // 100-300 mm.
- ✓ **Resistance:** Temperatures to 60 °C (140 °F).
- ✓ **Large screen area:** Up to 12000 cm² (1860 in²).
- ✓ **Resistant material:** The screen is manufactured in high quality stainless steel.
- ✓ **Low maintenance:** The lid with hinge reduces the labours when opening the filter.
- ✓ **Time saving:** The filtration process and the flushing cycle occur simultaneously.
- ✓ **Easy installation:** The filters are delivered to be installed.

TECHNOLOGY

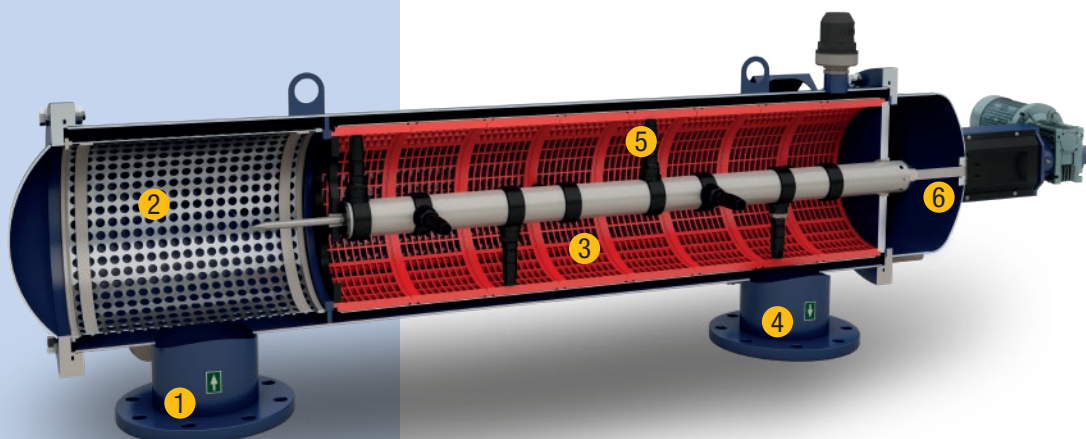
AZUD LUXON filters continue to supply filtered water without interruption during the flushing cycle.

The water flows through the inlet (1) and enters through the pre-filter (2) to the inside of the filter element.

The water then passes through the screen (3), and the particles are retained on the inside of the filter element (screen). The filtered water then flows out through the outlet (4).

When the pressure differential from inlet to outlet of the filter reaches the pre-selected level the flushing cycle starts. A hydraulic valve opens in the drain port, which initiates suction in the inner nozzles (5). This, along with the helical movement up and down the screen sucks the captured particles into the waste flow, and this is expelled out the drain port. (6)

The length of the flush cycle is pre-determined by the control unit. When the cycle is complete the flush valve closes and the flushing ends. The flushing process uses a minimal amount of water.



AZUD LUXON

AZUD LUXON MFE

| Model | DN CONNECTION | | | | Filtration Surface | |
|---------------------------|-----------------------|-----|--------------------------|----|--------------------|-----------------|
| | Inlet - Outlet Flange | | Drainage Female - Thread | | | |
| | " | mm | " | mm | cm ² | in ² |
| AZUD LUXON MFE 4800 M/4 | 4" | 100 | 2" | 50 | 4800 | 745 |
| AZUD LUXON MFE 7200 M/6 | 6" | 150 | 2" | 50 | 7200 | 1115 |
| AZUD LUXON MFE 7200 M/8 | 8" | 200 | 2" | 50 | 7200 | 1115 |
| AZUD LUXON MFE 9600 M/8 | 8" | 200 | 2" | 50 | 9600 | 1490 |
| AZUD LUXON MFE 9600 M/10 | 10" | 250 | 2" | 50 | 9600 | 1490 |
| AZUD LUXON MFE 12000 M/10 | 10" | 250 | 2" | 50 | 12000 | 1860 |

All models are with DIN 2576 flange connections.
Ask for the rest of configurations in www.azud.com
Includes a prefilter with a 6 mm pitch.

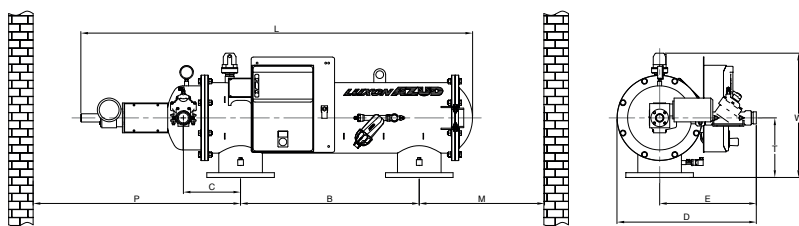
MATERIALS OF CONSTRUCTION

| | |
|--------------------|---|
| Housing-Lid | Epoxy polyester coated carbon steel (S-235-JR) |
| Filtration Element | SS AISI 316L screen - molded PP support structure |
| Cleaning Mechanism | Stainless Steel AISI-304 |
| Seals | NBR |
| Drainage Valve | Reinforced polyamide |
| Air release valve | 1" BSP Triple effect. Reinforced polyamide |

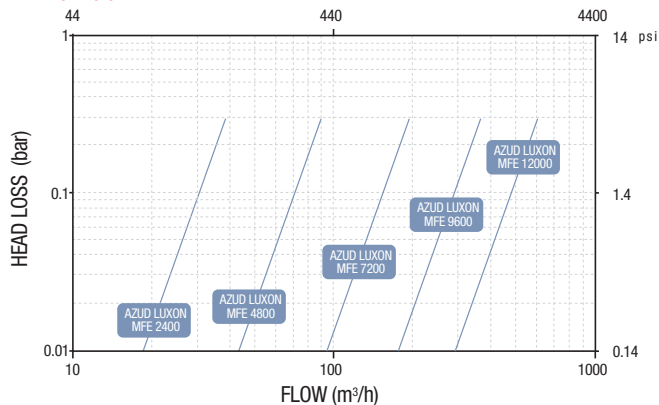
220 V AC control unit included • 380 V AC available
Max. Pressure 10 bar / 145 psi • Min. Pressure 2 bar / 29 psi
Max. Temperature 60 °C / 140 °F • 5-pH-9
1/4 CV Motor (220 V) • Power consumption 1.12 A

| Model | CONNECTION | | FILTRATION | | | | FLUSHING CYCLE | | | | |
|---------------------------|-----------------------|-----|--------------------|-----------------|-------------------|------|----------------|-----|------|--------|-----|
| | Inlet - Outlet Flange | | Filtration Surface | | Max. flow | | Flow rate | | Time | Volume | |
| | " | mm | cm ² | in ² | m ³ /h | gpm | l/s | gpm | s | l | gal |
| AZUD LUXON MFE 4800 M/4 | 4" | 100 | 4800 | 745 | 90 | 396 | 5.6 | 89 | 20 | 112 | 30 |
| AZUD LUXON MFE 7200 M/6 | 6" | 150 | 7200 | 1115 | 170 | 749 | 8.4 | 133 | 20 | 168 | 44 |
| AZUD LUXON MFE 7200 M/8 | 8" | 200 | 7200 | 1115 | 300 | 1321 | 8.4 | 133 | 20 | 168 | 44 |
| AZUD LUXON MFE 9600 M/8 | 8" | 200 | 9600 | 1490 | 300 | 1321 | 11.2 | 178 | 20 | 224 | 59 |
| AZUD LUXON MFE 9600 M/10 | 10" | 250 | 9600 | 1490 | 451 | 1986 | 11.2 | 178 | 20 | 224 | 59 |
| AZUD LUXON MFE 12000 M/10 | 10" | 250 | 12000 | 1860 | 500 | 2202 | 14 | 222 | 20 | 280 | 74 |

The flow rate given by filter conditions the frequency of the flushing activation.
Maximum recommended flow rate: 125 micron and water good quality.
Min. flushing pressure: 2 bar / 29 psi in outlet manifold.
Ask for other filtration grades.



HEAD LOSS 125 micron



| Model | DIMENSIONS | | | | | | | | | | | | | | | | | |
|---------------------------|------------|------|-----|------|-----|------|------|------|-----|------|-----|------|-----|------|-----|------|------|------|
| | L | | W | | D | | B | | C | | E | | T | | M | | P | |
| | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " | mm | " |
| AZUD LUXON MFE 4800 M/4 | 1700 | 66.9 | 625 | 24.6 | 675 | 26.6 | 770 | 30.3 | 218 | 8.6 | 460 | 18.1 | 300 | 11.8 | 610 | 24.0 | 1000 | 39.4 |
| AZUD LUXON MFE 7200 M/6 | 1975 | 77.8 | 625 | 24.6 | 675 | 26.6 | 900 | 35.4 | 288 | 11.3 | 460 | 18.1 | 300 | 11.8 | 685 | 27.0 | 1350 | 53.1 |
| AZUD LUXON MFE 7200 M/8 | 1975 | 77.8 | 625 | 24.6 | 675 | 26.6 | 900 | 35.4 | 288 | 11.3 | 460 | 18.1 | 300 | 11.8 | 685 | 27.0 | 1350 | 53.1 |
| AZUD LUXON MFE 9600 M/8 | 2250 | 88.6 | 625 | 24.6 | 675 | 26.6 | 1100 | 43.3 | 338 | 13.3 | 460 | 18.1 | 300 | 11.8 | 820 | 32.3 | 1660 | 65.4 |
| AZUD LUXON MFE 9600 M/10 | 2250 | 88.6 | 625 | 24.6 | 675 | 26.6 | 1100 | 43.3 | 338 | 13.3 | 460 | 18.1 | 300 | 11.8 | 820 | 32.3 | 1660 | 65.4 |
| AZUD LUXON MFE 12000 M/10 | 2525 | 99.4 | 625 | 24.6 | 675 | 26.6 | 1370 | 53.9 | 338 | 13.3 | 460 | 18.1 | 300 | 11.8 | 820 | 32.3 | 1940 | 76.4 |

M-P = Minimal recommended distance for maintenance operations.