

Zeolite Filter

Zeo



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- enables the zeolite process
- removes ammonia quickly and reliably
- produces bacterioplankton for corals and other filter feeders
- reduces nitrate and phosphate by assimilation
- binds heavy metals by means of ion exchange effect



Zeo100-50

The zeolite filter has **two modes of action**:

On the one hand, ammonium/ammonia and **organic substances** bind on the surface of the filter material (zeolite). These are consumed by bacteria so that a bacterial lawn is formed. To prevent the filter from becoming overgrown over time, the filter bed must be rinsed regularly. To do this, the filter bed is shaken up daily with the supply of air so that excess bacteria and mulm are rinsed off.

In aquariums with nutrient deficiencies, the excess bacteria should be fed into the aquarium as **bacterioplankton**.

In eutrophic (polluted) aquariums, the drain of the zeolite filter should end before the skimmer so that it skims the bacteria and thereby **removes nutrients** from the system. It is also possible to discharge it into a fleece filter.

On the other hand, the natural mineral zeolite **binds heavy metals** such as lead, zinc and others as an ion exchanger. It is important to replace 2/3 of the filter material approximately every two months.

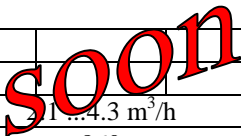
The filters consist of the PMMA empty filter and are versatily convertible for other tasks thanks to the exchangeable filter screens. - All filters are filled with AquaCare zeolite mineral, which ensures a high flow rate and can be flushed well.

Technical data of the AquaCare Zeolite Filters **Zeo70 ... Zeo100**:

| Size | Zeo 70 | | | Zeo 100 | | |
|--|---|----------|-----------|----------------|-----------|------------|
| Order number | ZEO50-40 | ZEO50-70 | ZEO50-100 | ZEO100-45 | ZEO100-70 | ZEO100-100 |
| Diameter in mm | 70 | | | 100 | | |
| Total height in cm* | 45 | 70 | 100 | 50 | 70 | 100 |
| Necessary height in cm | + 5 cm | | | | | |
| Usable volume in liters | 1.1 | 1.8 | 2.7 | 2.5 | 3.8 | 5.8 |
| maximum aquarium size in liters, appr. | 500 | 900 | 1300 | 1200 | 1900 | 2800 |
| Upstream flow in l/h | 250...500 | | | 500...1000 | | |
| Required minimum air flow in l/h | 100 | | | 200 | | |
| Footprint Width × depth in cm | 18 × 14 | | | 21 × 14 | | |
| Total weight in kg | 2.2 | 3.1 | 4.1 | 4.4 | 5.8 | 7.9 |
| Erection | Externally, in the filter sump, with hang-on bracket to the aquarium or filter basin, with wall brackets to a wall | | | | | |
| Materials | PMMA (acrylic glass), NBR, silicone, PVC, PA | | | | | |
| Connections ** | 20 mm PVC fittings, 16 mm hose nozzle | | | | | |
| Connection air input | 4 mm hose nozzle (for standard air hose) | | | | | |
| Basis model | PMMA empty filter | | | | | |
| Substrate: AquaCare Zeolite mineral, graining: 8-16 mm | 1 Liter Zeolite (approx. 0.9 kg), order number: 593-001; 25 kg Zeolite (approx. 22.5 Liter), order number: 596-025 | | | | | |
| Suitable water pump | aquabee UP1000 | | | aquabee UP2000 | | |
| Suitable air pump | Schego optimal | | | Schego M2K3 | | |

* Special heights are possible! ** others possible

Technical data of the AquaCare Zeolite Filters **Zeo150 ... Zeo200:**

| Size | Zeo 150 | | | Zeo 200 | | |
|--|---|------------|-------------|---|-------------|-------------|
| Order number | ZEO 150-50 | ZEO 150-70 | ZEO 150-100 | ZEO 200-50 | ZEO 200-100 | ZEO 200-150 |
| Diameter in mm | 150 | | | 200 | | |
| Total height in cm* | 50 | 70 | 100 | 50 | 100 | 150 |
| Necessary height in cm | + 5 cm | | | | | |
| Usable volume in liters | 5.4 | 8.5 | 13.3 |  | | |
| maximum aquarium size in m ³ , appr. | 2.7 | 4.3 | 6.6 | | | |
| Upstream flow | 250...500 l/h | | | | | |
| Required minimum air flow in l/h | 100 | | | 860 | | |
| Footprint Width × depth in cm | 31 × 22 | | | | | |
| Total weight in kg | 8.7 | 11.9 | 16.6 | | | |
| Erection | Externally, in the filter sump | | | | | |
| Materials | PMMA (acrylic glass), NBR, silicone, PVC, PA | | | | | |
| Connections ** | 25 mm PVC fittings | | | 32 mm PVC fittings | | |
| Connection air input | 12 mm | | | | | |
| Basis model | PMMA empty filter | | | | | |
| Substrate: AquaCare Zeolite mineral, graining: 8-16 mm | 1 Liter Zeolite (approx. 0.9 kg), order number: 593-001; 25 kg Zeolite (approx. 22.5 Liter), order number: 596-025 | | | | | |
| Suitable water pump | UP3000 | | | UP5000 | | |
| Suitable air pump | Medo 1.6 | | | Medo 1.6 | | |

* Special heights are possible! ** others possible

Technical data of the AquaCare Zeolite Filters **Zeo300 ... Zeo400:**

| Size | Zeo 300 | | | Zeo 400 | | |
|--|--|----------------|----------------|-----------------------|----------------|----------------|
| Order number | ZEO 300-050 | ZEO 300-100 | ZEO 300-150 | ZEO 400-100 | ZEO 400-150 | ZEO 400-200 |
| Diameter in mm | 300 | | | 400 | | |
| Total height in cm* | 50 | 100 | 150 | 100 | 150 | 200 |
| Necessary height in cm | + 5 cm | | | | | |
| Usable volume in liters | 19 | 52 | 85 | 87 | 146 | 206 |
| maximum aquarium size in m ³ /h, appr. | 9.4 | 26 | 42 | 43 | 73 | 103 |
| Upstream flow in m ³ /h | 2.1...4.3 | | | 9...18 | | |
| Required minimum air flow in m ³ /h | 2.0 | | | 3.5 | | |
| Footprint Width × depth in cm | 52 × 40 | | | 80 × 50 | | |
| Total weight in kg | 39 | 72 | 105 | 125 | 185 | 250 |
| Erection | Externally, in the filter sump | | | | | |
| Materials | PMMA (acrylic glass), NBR, silicone, PVC, PA, SS | | | | | |
| Connections ** | 40/50 mm PVC fittings | | | 63/75 mm PVC fittings | | |
| Connection air input | 16 mm | | | | | |
| Basis model | PMMA empty filter | | | | | |
| Substrate: AquaCare Zeolite mineral, graining: 8-16 mm | 25 kg Zeolite (approx. 22.5 Liter)), order number: 596-025 | | | | | |
| Suitable water pump | UP6000 | | | - | | |
| Suitable air pump | Medo 2.7 | | | Medo 7.2 | | |

* Special heights are possible! ** others possible