

Phosphate- Minus-Reactor



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PMR



PMR 75

Phosphor is an essential element – in too low concentrations the animals will have symptoms of lack. In natural reefs phosphor is a minimum factor. But in aquaria this substance is enriching as phosphate by and by. Too much phosphate causes algae growths and deformities at hard corals – the lime synthesis is disturbed.

Basically there are some possibilities to lower phosphate concentrations. With a regularly water change you may minimize only low phosphate loads. Phosphate precipitation is binding quickly high amounts of phosphate. These tools - normally fluid – may cause side effects, especially at tangs (*Zebrasoma spec.*) and establish phosphate pools.

The AquaCare phosphate adsorber $X_{globuli}$ is binding slowly and safe the too much phosphate. This material consists of a porous matrix linked with active adsorber molecules. The phosphate polluted water flows through the adsorber bed and is cleaned. If you change the material the bounded phosphate is taken out of the aquarium. No phosphate pool is established.

The maximum reaction takes place in the AquaCare Phosphate-Minus-Reactor PMR. The adsorber granules are in a moving bed:

- blocking of the material is impossible
- channels that lowers the reactivity are not forming.

| Size | PMR 75 | PMR 110-060 | PMR 110-090 | PMR 110-130 |
|---------------------------------------|----------------------------------|-------------|-------------|-------------|
| Order number | 345-008 | 345-011 | 345-012 | 234-013 |
| Maximum aquarium size in litre* | 400 | 1000 | 2000 | 3600 |
| Water supply in l/h | 50...70 | 110...150 | | |
| Suitabel pump (not scope of delivery) | UP300 | | UP500 | UP2000 |
| Diameter in mm | 75 | 110 | 110 | 110 |
| Foot print size mm | 190 × 140 | | 200 × 160 | |
| Height in cm** | 45 | 55 | 85 | 125 |
| Usable volume in litre | 0.6 | 1.7 | 3.6 | 6.1 |
| Supplied $X_{globuli}$ in litre | 1 | 2 | 4 | 6 |
| Connectors *** in mm | Hose nozzle d16 / PVC d20 unions | | | |
| Filter material | Phosphate- $X_{globuli}$ | | | |
| Total weight in kg | 3 | 7 | 10 | 14 |
| Materials | PVC, PVC transparent, ABS, NBR | | | |

* you may use smaller filters for bigger tanks; then the filter material has to be change more often.

** other heights are possible

*** other connectors are possible

AquaCare offers systems for large aquaria, too.