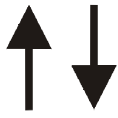


# CO<sub>2</sub> Adsorber for skimmers



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- Removes carbon dioxide (CO<sub>2</sub>) from the skimmer supply air
- slightly increases the pH value of the aquarium water
- simple and safe to use

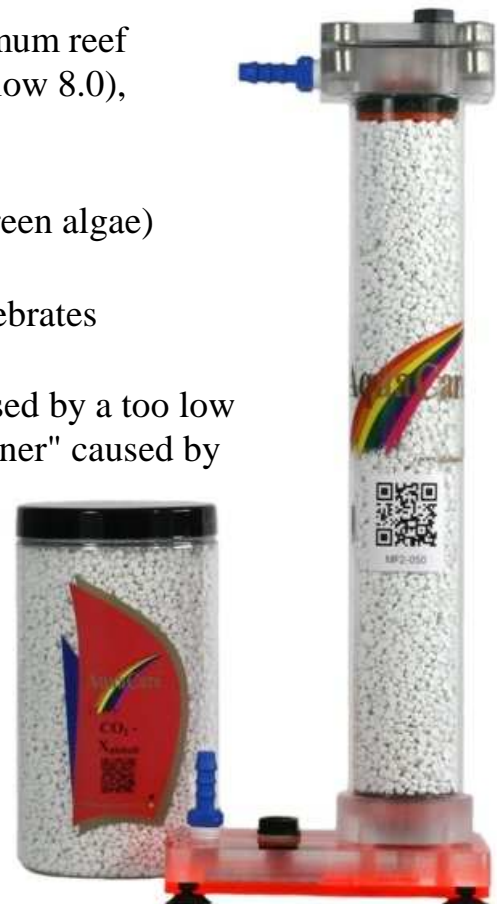
The pH value is a **central parameter** for an optimum reef aquarium. If this value is too low (temporarily below 8.0), the following symptoms may occur:

- excessive growth of green algae
- mass propagation of cyanobacteria (blue-green algae)
- orientation problems of coral fish
- changes in the behaviour of fish and invertebrates
- only moderate growth of hard corals

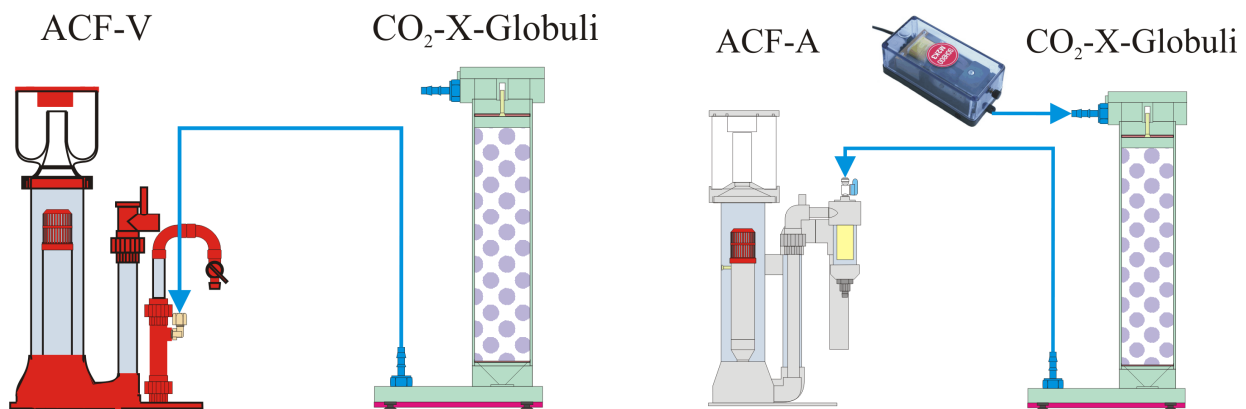
Often enough, the pH value that is too low is caused by a too low carbonate hardness (alkalinity). Also "gamble corner" caused by dirt deposits or compacted soil layers can reduce the pH value. The following steps should be taken before use of a CO<sub>2</sub> adsorber:

- increase the carbonate hardness to at least 7°KH;
- Inspection and, if necessary, remediation of the substrate;
- good current everywhere in the aquarium.

If all these efforts have not been successful, the CO<sub>2</sub> adsorber should be used.



The AquaCare **CO<sub>2</sub>-Adsorber** is filled with **CO<sub>2</sub>-X globules**. The filter is connected to the air inlet of a skimmer:



The intake air flows through the CO<sub>2</sub> adsorber (**upstream**: from bottom to top, or **downstream**: from top to bottom) and is freed of carbon dioxide. The air reaches the skimmer and cannot form carbon dioxide, which lowers the pH value of the aquarium water. As a result, the pH value in the aquarium rises slightly.



Top: exhausted CO<sub>2</sub>-X-Globuli; bottom: new material

If the CO<sub>2</sub> adsorber is used in combination with an **air dryer module (LTM)**, it must be ensured that the air dryer is connected downstream of the CO<sub>2</sub> adsorber - otherwise the CO<sub>2</sub>-X globules could overheat.

When the **capacity** of the CO<sub>2</sub> adsorber is exhausted, the CO<sub>2</sub>-X globules turn slightly violet and the material must be replaced. The material must be replaced even after subsequent decolouration! The used material can be disposed of with household waste.

### Technical data of the CO<sub>2</sub> adsorber: 50 - 70

| Size                                | CO <sub>2</sub> -Adsorber-050  |                   |                    | CO <sub>2</sub> -Adsorber-070 |                   |                    |
|-------------------------------------|--|-------------------|--------------------|-------------------------------|-------------------|--------------------|
| Order number                        | CO2-Adsorb-050-40  | CO2-Adsorb-050-70 | CO2-Adsorb-050-100 | CO2-Adsorb-070-45             | CO2-Adsorb-070-70 | CO2-Adsorb-070-100 |
| Maximum aquarium size in litres*    | 130  | 250               | 380                | 260                           | 450               | 680                |
| Life span of a filling *            | approx. 4 weeks  |                   |                    |                               |                   |                    |
| Diameter of the filter in mm        | 50   |                   |                    | 70                            |                   |                    |
| Height of the filter in cm **       | 40   | 70                | 100                | 45                            | 70                | 100                |
| Necessary height in cm              | +5 cm  |                   |                    |                               |                   |                    |
| Useful volume in litres             | 0.5  | 1.0               | 1.5                | 1,1                           | 1,8               | 2,7                |
| Footprint in cm                     | 140 × 100  |                   |                    |                               |                   |                    |
| Total weight in kg                  | 1.2  | 1.7               | 2.2                | 2,2                           | 3,0               | 4,0                |
| Erection                            | External, in the filter sump, with Hang-On bracket to the aquarium or filter basin, with wall brackets to a wall |                   |                    |                               |                   |                    |
| Materials                           | high-quality PMMA (acrylic glass), NBR, silicone, PA   |                   |                    |                               |                   |                    |
| Connections: female thread - nozzle | G1/4", 8 mm nozzle   |                   |                    | d20 or nozzle 12              |                   |                    |
| Temperature range                   | 10 ... 40°C  |                   |                    |                               |                   |                    |
| Pressure range                      | 500 ... 1200 hPa   |                   |                    |                               |                   |                    |
| Relative humidity                   | 20 ... 100%  |                   |                    |                               |                   |                    |
| Basic model                         | MF <sub>2</sub> MultiFunctionFilter 50   |                   |                    | PMMA empty filter             |                   |                    |
| Substrate                           | CO <sub>2</sub> -X-Globuli   |                   |                    |                               |                   |                    |

\* The maximum aquarium size depends on the type and effectiveness of the skimmer, the carbonate hardness in the aquarium water, the CO<sub>2</sub> concentration in the room and the desired replacement interval of the CO<sub>2</sub>-X globules. In individual cases a deviation may make sense - please contact us.

\*\* For larger CO<sub>2</sub> adsorbers filters with more volume, please ask us.

## Technical data of the CO<sub>2</sub> adsorber: 100 - 150

| Size                                | CO <sub>2</sub> -Adsorber-100  |                   |                    | CO <sub>2</sub> -Adsorber-150 |                   |                    |
|-------------------------------------|--|-------------------|--------------------|-------------------------------|-------------------|--------------------|
| Order number                        | CO2-Adsorb-100-50  | CO2-Adsorb-100-70 | CO2-Adsorb-100-100 | CO2-Adsorb-150-50             | CO2-Adsorb-150-70 | CO2-Adsorb-150-100 |
| Maximum aquarium size in litres*    | 610  | 950               | 1450               | 1400                          | 2200              | 3400               |
| Life span of a filling *            | approx. 4 weeks  |                   |                    |                               |                   |                    |
| Diameter of the filter in mm        | 100  |                   |                    |                               |                   |                    |
| Height of the filter in cm **       | 50   | 70                | 100                | 50                            | 70                | 100                |
| Necessary height in cm              | +5 cm  |                   |                    |                               |                   |                    |
| Useful volume in litres             | 2.5  | 3.8               | 5.8                | 5.5                           | 8.7               | 13.4               |
| Footprint in cm                     | 210 × 140  |                   |                    | 310 × 220                     |                   |                    |
| Total weight in kg                  | 3.7  | 5.1               | 7.1                | 9                             | 12                | 16                 |
| Erection                            | External, in the filter sump, with Hang-On bracket to the aquarium or filter basin, with wall brackets to a wall |                   |                    |                               |                   |                    |
| Materials                           | high-quality PMMA (acrylic glass), NBR, silicone, PVC  |                   |                    |                               |                   |                    |
| Connections: female thread - nozzle | PVC20, 16 mm nozzle  |                   |                    | PVC25, 25 mm nozzle           |                   |                    |
| Temperature range                   | 10 ... 40°C  |                   |                    |                               |                   |                    |
| Pressure range                      | 500 ... 1200 hPa   |                   |                    |                               |                   |                    |
| Relative humidity                   | 20 ... 100%  |                   |                    |                               |                   |                    |
| Basic model                         | PMMA empty filter d100   |                   |                    | PMMA empty filter d150        |                   |                    |
| Substrate                           | CO <sub>2</sub> -X-Globuli   |                   |                    |                               |                   |                    |

\* The maximum aquarium size depends on the type and effectiveness of the skimmer, the carbonate hardness in the aquarium water, the CO<sub>2</sub> concentration in the room and the desired replacement interval of the CO<sub>2</sub>-X globules. In individual cases a deviation may make sense - please contact us.

\*\* For larger CO<sub>2</sub> adsorbers filters with more volume, please ask us.



corrosive:

**CO<sub>2</sub>-X-Globuli:** Causes skin irritation; Causes severe eye damage; Must not get into children's hands; Read label before use; Do not breathe dust / smoke / gas / mist / vapour / aerosol; Wear protective gloves / clothing / eye protection / face protection; If swallowed: Rinse mouth. Do not induce vomiting; If in contact with skin: Wash with plenty of water; In contact with eyes: Rinse gently with water for several minutes. If possible, remove any contact lenses. Continue rinsing; protect from sunlight; store at temperatures not exceeding 50°C

