

# Degassers

*For Stripping CO<sub>2</sub> from Water*

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**ARMATEC**

## PRODUCT DESCRIPTION

A range of degassers for stripping over 90% of carbon dioxide and other gases from water. The units are supplied complete with aeration fan, water pipe inlet connection and water discharge pipe. They are used typically on bore water that has a low pH due to dissolved carbon dioxide.

## BENEFITS

- **Increases pH of Water Without Chemicals:** Stripping of the carbon dioxide increases the pH of the water without the use of chemicals such as sodium hydroxide. This saves chemical costs and avoids the need to handle and store this corrosive chemical. Increasing the pH is often a first step in many water treatment plants, especially those using bore water.
- **Less Maintenance:** The higher pH water is less corrosive so using a degasser means less maintenance on downstream plant pipework. The units are typically all plastic and fibreglass in construction so the units themselves are maintenance free.
- **Simple Operation:** There is no need for complex instrumentation. The fan and water supply operate continuously without supervision or controls.
- **Proven Performance:** With many units now in place, a carbon dioxide removal performance of over 90% can be guaranteed. The pH of the water can typically be increased from 6 to over 7.
- **Flexible Design:** Designs are flexible and can incorporate mist eliminators as required.

## CONSTRUCTION STANDARDS

The units are fabricated to international fibreglass standard AS 2634-1983 for chemical plant equipment. Armatec Environmental Ltd is ISO 9001 accredited with BVQI as the supervising auditors, thus assuring clients of consistent high quality products. Full replacement warranties are provided.

## FIBREGLASS TECHNOLOGY

Fibreglass materials and technology are sourced from around the world. Isophthalic polyester resins are used as standard and options are available using resins such as vinyl esters.

## SUPPLY DETAILS

The degasser units are individually designed and fabricated by Armatec Environmental Ltd. Please contact Armatec for pricing information and typical drawings.

## USES

- Municipal water treatment plants.
- Industrial water treatment plants.
- Treating bore water.

## STANDARD SIZES

Standard sizes available are 450 mm in diameter to over 1800 mm in diameter. Each unit is custom designed for the particular application. Water treatment rates can vary from less than 10 cubic metres per hour to over 100 cubic metres per hour. Please contact Armatec Environmental Ltd with details of your specific application.

## WATER CONNECTIONS

Typically the water is pumped to the top of the degasser from where it cascades down over the plastic media countercurrent to the air stripping the carbon dioxide out. The outlet pipe is generally from the bottom of the base of the degasser and is supplied long enough to enable a water seal to be achieved in the receiving storage tank below.



Degasser for removing carbon dioxide from water mounted on top of a concrete storage tank.

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