ALDOX™ MINI

Water deaeration

Application

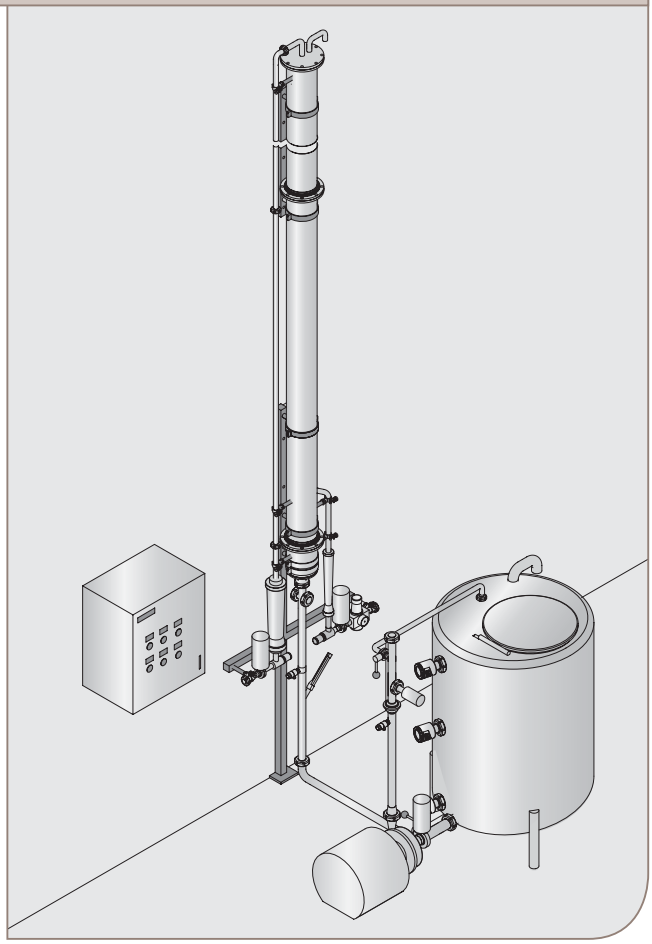
ALDOX™ MINI is a process system for production of deaerated and carbonated high-quality water for breweries and soft drink manufacturers. The system is designed as a kit and intended for low capacity demands.

Working principle

Oxygen is removed in the ALDOX™ column which is given a space saving design for wall mounting. The high desorption of oxygen is achieved with carbon dioxide (CO_2) over a packed bed operating at atmospheric pressure.
Water is distributed at the top of the column and travels downward counter currently with the CO_2. The internal packing material, specifically developed for this application, ensures a large effective contact area between liquid and gas.
The benefits are highly efficient oxygen removal at very low gas rates. The majority of CO_2 added to the column is dissolved in the water.

The virtually oxygen-free water is collected at the bottom of the column and transferred by gravity to the buffer tank. Here the water is stored at atmospheric pressure under a blanket of CO_2 to avoid oxygen pick-up. For still drinks, nitrogen (N_2) is used instead of CO_2.

The ALDOX™ MINI is a fully automatic system with a small PLC controlling the plant operation and operated by means of push buttons. CIP is integrated into the unit and can be performed automatically.



Benefits

- Developed in co-operation with the brewing industry
- Automatic control
- Sanitary and compact design
- Water DO levels down to less than 0.02 ppm can be achieved
- CO_2 losses below 5%
- Low maintenance
- No pressure rated or heavy duty vessels needed

Basic unit

The system is self-contained, factory preassembled and tested before delivery. In compliance with food industry regulations, all components in contact with the process liquids are made of stainless steel with heat resistant seals. It is designed for CIP.

Technical data

(Other specifications on request)

Capacity range, hl/h:	10-40
Deaeration to:	Less than 0.02 ppm
Utility data:	Depending on capacity range

Dimensions

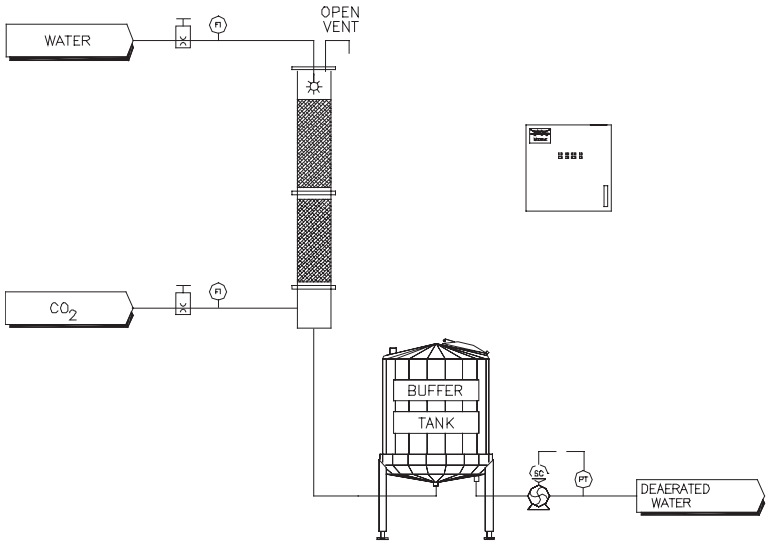
Approximate dimensions and weight:

L = 2.0 m W = 2.0 m H = 6.0 - 8.0 m

Weight: 1,000 kg

Optional equipment

- Cooling of water
- Remote control
- Communication with other control systems
- Integrated CIP



Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval
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