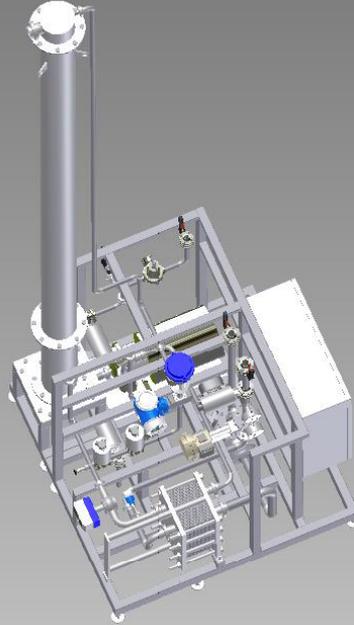


## Column Water Deaeration (cold)

DeGas-Cold



### The Principle

To prevent corrosion of piping systems and boilers, water needs to be deaerated. Deaeration is performed at ambient temperature. The water is dispersed at the top of the column. The column contains densely packed, thin stainless steel sheets arranged in such way that the water takes multiple paths as it flows down through the column. This maximizes the transfer surface and the contact time between the water and the strip gas ( $\text{CO}_2$  or  $\text{N}_2$ ). The strip gas is fed into the bottom of the column and flows upwards inside it in counter current to the water. The large partial pressure difference of  $\text{O}_2$  forces the oxygen out of the water into the gas phase. At the top of the column the removed oxygen leaves the system as a gas, together with the undissolved strip gas. The  $\text{O}_2$  content of the deaerated water is permanently monitored. The virtually oxygen free water is collected at the bottom of the column. To avoid carbonation or nitrogenation of the water and for reduction of running costs, the skid can optionally be operated under vacuum and completely without strip gas.

## Technical Data

Capacity	1 - 200 m <sup>3</sup> /h 1 - 200 t/h
Residual Oxygen	100 ppb - < 10 ppb lower on request
Material	1.4301/AISI 304; 1.4404/AISI 316L; etc.
Options	double column design for lower height in-line measurements (e. g. O <sub>2</sub> , CO <sub>2</sub> ) column insulation carbonation disinfection cooling

## Highlights

High precision OXYTRANS O<sub>2</sub> sensor for process control  
Operation under vacuum and completely without strip gas possible  
Customized design; different automation levels

## The Centec Group

Centec offer fully automated, skid-mounted process units and high precision measurement technology from a single source. Our systems and sensors are engineered to perfectly meet the most demanding requirements of the brewery, beverage, food and pharmaceutical industries. With a team of experienced engineers, we aim to create quantifiable added value for our customers. We are your partner from planning and design through to commissioning of your plant.



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