

# CRS

## In-line Carbonation, Decarbonation and Deoxygenation System



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The CRS system is a modular constructed carbonation, decarbonation and deoxygenation unit. Highly efficient contactors, so called hollow fibre membrane modules enable the transmission of CO<sub>2</sub> into or out of beverages. Due to the special material of the fibre it is only permeable for gas molecules.

The driving force of the gas diffusion into or removal out of beverage is the partial pressure difference between the gas and liquid phase. The gas molecules are only driven by partial pressure difference directly into or out of the solution. This enables bubble free carbonation at the contact point (membrane) of gas - liquid and de-carbonation with highest efficiency combined with a reduction of the O<sub>2</sub>-content in the beverage.

The CO<sub>2</sub>-concentration of the final product is controlled continuously by a highly accurate in-line CO<sub>2</sub>-analyser.

An optional remote access service kit allows software updating and trouble shooting within a few hours.

## Technical Data

<b>Capacity</b>	10-1500 hl/h
<b>Diameter</b>	DN25 – DN150
<b>Temperature</b>	2°C – 40°C
<b>Range of Measurement and Control CO<sub>2</sub></b>	0-10 g/l (0-5 Vol%)
<b>CO<sub>2</sub> (N<sub>2</sub>) Consumption</b>	5-15 Norm litre / 1 hl Beer
<b>Cleaning</b>	CIP-up to 85°C
<b>Material</b>	1.4301 / 1.4404 / AISI
<b>Gasket</b>	EPDM
<b>Optional</b>	Oxygen Measurement Nitrogen Measurement Booster Pump Sealing Water Recovery Remote Access Kit

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