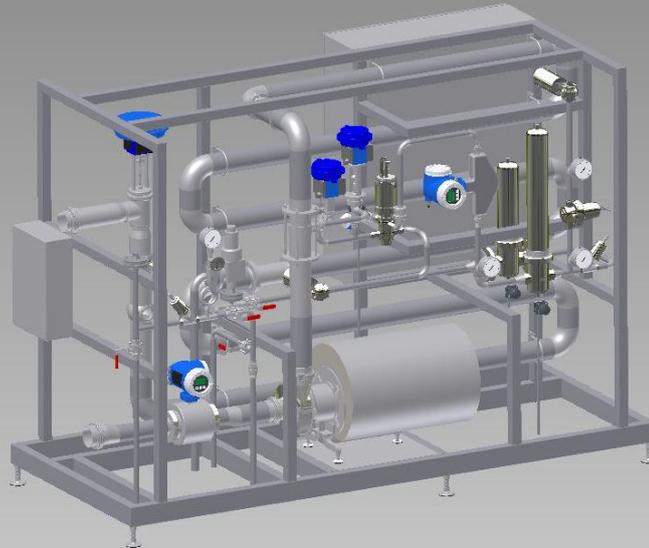


Carbonation of Liquid Products

Carbonator



The Principle

The Carbonator is used for continuous injection of carbon dioxide into liquid food and beverages such as beer, sparkling wine and soft drinks. A precisely defined and constant CO₂ content is an essential quality feature of many products. For CO₂ supply the Carbonator has a specifically designed Vortex-Venturi injector that feeds carbon dioxide in a very large number of very fine bubbles directly into the product stream. Due to high pressure and turbulent flow, the carbon dioxide dissolves completely and absolutely homogeneously in a very short time. At the end of the dissolving path a control valve is installed. This valve keeps the pressure in the system constant and above the saturation pressure. The flows and the CO₂ content are permanently monitored and automatically adjusted in the process. Therefore, the system is equipped with high precision flow meters and a CARBOTEC sensor made by Centec. The desired concentration of carbon dioxide is precisely met in the carbonated product.

Typical Technical Data

Capacity	2 - 2.000 hl/h
Dosing Range CO ₂	0,5 - 10 g/l
Dosing Accuracy CO ₂	± 0,1 g/l (option: ± 0,05 g/l)
Material	1.4301/AISI 304; 1.4404/AISI 316L; etc.
Options	in-line O ₂ measurement nitrogenation buffer tank cooling

Highlights

High precision CARBOTEC CO₂ sensor for process control
Specifically designed Vortex-Venturi injector for CO₂ injection
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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