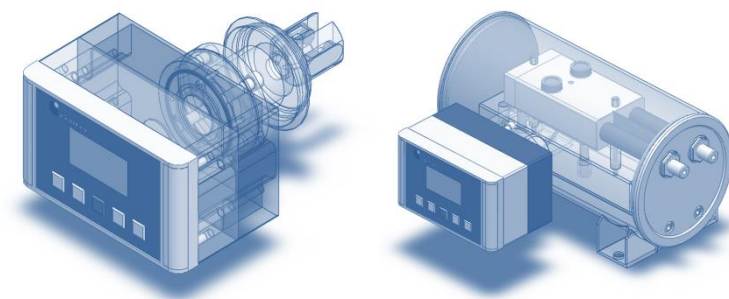


The Centec Group

Centec is a privately owned group of companies. Our automated process skids are used throughout the entire brewing process. For soft drinks, dairy and food industries we offer a large variety of skid mounted systems. We have decades of experience in water purification and deaeration, carbonation, liquid blending and dosing, flash pasteurization and cleaning-in-place. Centec technology includes a range of high precision process sensors for accurately measuring critical product properties such as extract, alcohol, milk fat, O₂ and CO₂. The largest brewery, soft drink, dairy and food groups in the world are among our key customers.



Accuracy. Reliability. Centec.

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Carbonator

Carbonation

Centec Beverage Systems



Automated
process skids
and high precision
sensors from a
single source.
Centec.

Carbonator

The Principle

The Centec Carbonator is applied for the addition of pressurized CO₂ to carbonate beverages like beer, cider, soft drinks and sparkling water and to reach exactly the required value of residual CO₂. Every skid is equipped with one or several specifically designed Vortex injectors that inject the gas as fine bubbles into the liquid stream. These nozzles ensure that the carbon dioxide dissolves perfectly and absolutely homogeneously in a very short time. At the outlet of the system the CO₂ content is permanently measured with a highly reliable CARBOTEC sensor developed and manufactured by Centec. Based on this accurate in-line measurement, the CO₂ flow is adjusted instantly and fully automatically. Due to the very low pressure drop in the product line, no static mixer is required for the Carbonator skid. The modular design of the process units allows for easy expansion, e.g. for carboblending or additional nitrogenation.

Technical Data

Capacity	10 - 2.000 hl/h
Range of CO ₂	0 - 10 g/l or 0 - 5 vol.%
Control Accuracy	± 0,05 g/l or ± 0,025 vol.%
Pressure of Operation	1 - 10 bar
Temperature of Operation	2 - 50 °C
Temperature of CIP	up to 85 °C
Material	1.4301/1.4404 AISI 304/316L
PLC	SIMATIC S7
Options	in-line measurement of O ₂ /CO ₂ /sugar/alcohol/... nitrogenation blending



The Centec production is certified according to ISO 9001.

- **Application Specific and Energy Efficient**
exceptional accuracy with CARBOTEC sensor technology
specifically designed Vortex-nozzle for CO₂ injection
carboblending or additional nitrogenation on demand
- **Modular Design with Standard PLC**
skid mounted for easy installation and start-up
- **Hygienic Execution and Full CIP Capability**
- **Outstanding Price-Performance-Ratio**

Experience. Expertise. Centec.

*Ion Exchange · Reverse Osmosis · Membrane Deaeration · Column Deaeration · Hops Pre-Isomerization
Wort Aeration · Yeast Pitching · Nitrogenation · Carbonation · Carboblending · High Gravity Blending
Multi Component Mixing · Additive Dosing · Flash Pasteurization · Cleaning-in-Place · Dealcoholization*

