

HGB-CDS

High-Gravity Blending and Carbonation System



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The Application

Equipped with the highly accurate Centec in-line measurement systems the unit controls and supervises the dosing of the blending water and of the CO₂ fully automatic. At the inlet of the unit the beer will be mixed with the deaerated water and then carbonised. Every Centec carbonation unit is equipped with a special designed Vortex-Venturi nozzle for CO₂. It achieves by using the integrated Vortex edge a perfect mixture of carbon dioxide with the beverage. No static mixer is required anymore thus the pressure drop in the main line is minimised

The integrated process measurement at the outlet of the unit controls and monitors the value for OG, alcohol and CO₂.

The optional pressure hold valve at the end of the dissolving pipe ensures stable conditions for operation.

- **Optional Oxygen Measurement**
Highly accurate and continuous determination of the oxygen level in the beer with the Centec optical Inline process measurement system **Oxytrans TR**.
- **Optional Process Visualisation**
Visualize and store continuously the process on the local PLC or at an upper SCADA System.
- **Optional Integration of a water deaeration system**
to deaerate continuously the blending water down to < 0,01 ppm

Technical Data

Capacity	10 - 2000 hl/h
Range and control of CO ₂	0-10 g/l or 0-5 Vol%
Range and control of Original Gravity	0-20°P ± 0,05°P
Range and control of Alcohol	0-10 Vol.% ± 0,03 Vol.%
Temperature	-2°C - +20°C
Cleaning	CIP up to 125°C
Pressure	1-10 bar
Material	1.4301 / 1.4404
PLC	Siematic S7



The Centec production is certified according to ISO 9001

Centec In-Line Process measurement for OG, Alcohol, Oxygen and carbon dioxide

- **Hygienic**

in design and fully integrated in the CIP process

- **Flexible**

by using a local PLC or fully integrated in the overall process

- **Full automatic**

controlled by high sophisticated process measurement

- **Effective**

by using special designed components and the Vortex Injector for CO₂



Highly accurate dosing by using the split range philosophy



Centec Carbotec TR-PT
In-line Process Measurement for carbon dioxide

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