

CPS

Continuous Premix System



The Application

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 Centec in-line process measurement for CO₂ controls the dosing fully automatic.

Highly accurate flow meters and pneumatic control valves continuously monitor and adjust the mass ratio. A redundant Centec on-line density sensor, placed at the end of the system, accurately determines the °Brix/Diet content of the final product and if necessary, the mass ratio is automatically adjusted. An optional remote access service kit allows a Centec technician, located in Frankfurt, to update and maintain system software at any time. If required, the system can be equipped with a deaeration and carbonation system.

Technical Data

Capacity	10 - 150.000 l/h
Range and control of measurement CO₂	0-10 g/l bzw. 0-5 Vol%
Range of Dosing	0-65°Brix ± 0,025
Components	1 l/h to 75.000 l/h
Temperature	-2 - +50°C
Pressure	0-10 bar
Material	1.4301 / 1.4404
PLC	Siematic S7
Optional	Water Deaeration System Oxygen Measurement Chiller / Flash Pasteuriser Remote Access Kit

- **Optional Integration of a water deaeration system**
to deaerate continuously the blending water down to < 0,01 ppm
- **Optional Process Visualisation**
Visualize and store continuously the process on the local PLC or at an upper SCADA System.
- **Optional In-line Measurement**
for Oxygen, OG, conductivity, Alcohol or pH



- 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 the special designed Vortex Injector for CO₂



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



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