

CARBO CONTROLLER CCR

CONTROLLED & AUTOMATED CO₂ DISSOLUTION

Industry developments regarding high gravity brewing, production of non-alcoholic beers, soft drinks, new functional drinks and control of shelf life, have all resulted in a growing demand for carbon dioxide (CO₂) and oxygen (O₂) control. Pentair's extensive experience and references in CO₂ measurement and dosing guarantee accurate CO₂ injection and bubble-free CO₂ dissolution. Combined with the reliable O₂ measurement, this enables you to achieve Total Process Control.

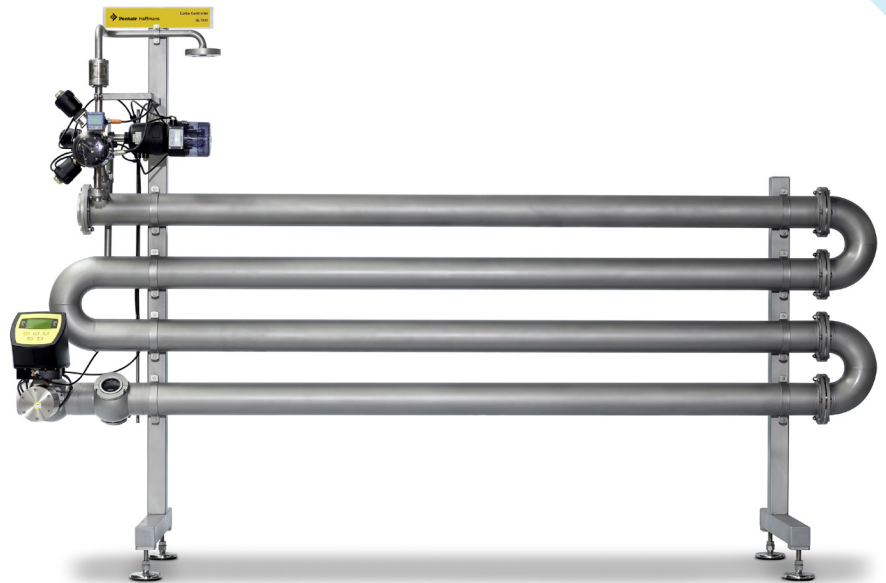
The Carbo Controller works by injecting CO₂ at the inlet of a dissolution tube. The CO₂ is then finely dispersed and dissolved by a set of static mixers, that are engineered to suit your specific process conditions.

The In-line CO₂ Gehaltemeter, type AuCoMet-i (or In-line CO₂/O₂ Gehaltemeter for combined measurement) determines the amount of CO₂ and can immediately adjust the CO₂ dosing rate if needed. The CO₂ analyzer communicates directly with Pentair Haffmans' CO₂ dosing block through embedded software, or via PLC control. Besides being used to control the carbonization process, the CO₂ content, and optionally the O₂ content, are also available for monitoring the product quality.

The Carbo Controller is available as a skid mounted system. It consists of proven components, and includes all required piping, wiring and control systems. The hygienic, fully automated and reliable design guarantees easy handling, low maintenance and a long service life. Quality and reliability is backed by many references around the world.

CUSTOMER BENEFITS

- Perfect process and product control
 - highest measuring and control accuracy
 - hygienic design
 - bubble-free CO₂ dissolution
- Cost saving
 - no product loss
 - integrated dosing control (embedded software)



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TECHNICAL SPECIFICATIONS

Measuring Range

CO ₂	2.0-9.9 g/l
O ₂ (optional)	0.0-2,000 ppb

Dosing Accuracy

± 0.05 g/l

Material

Product-contact parts	AISI 316
Non-contact parts	AISI 314/ABS

OPTIONS

- Pressure control loop
- Constant pressure valve
- PLC for control of auxiliary equipment
- Product booster pump
- Profibus or extended I/O Data communication
- Nitrogenation
- O₂ measurement with Pentair Haffmans' OGM

APPLICATIONS

- Automated and accurate carbonization of beverages

SCOPE OF SUPPLY

- Skid-mounted CO₂ dissolution tube
- Static mixers
- Pentair Haffmans' CO₂ dosing block
- In-line CO₂ Gehaltemeter, type AuCoMet-i
- Instruction manual



*Pentair Haffmans
In-line CO₂ Gehaltemeter,
type AuCoMet-i*



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