

# HAFFMANS CCR CARBO CONTROLLER

PRODUCT LEAFLET

## GENERAL PRODUCT INFORMATION

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 (CO<sub>2</sub>) and oxygen (O<sub>2</sub>) control. Pentair Haffmans' extensive experience and references in CO<sub>2</sub> measurement and dosing guarantee accurate CO<sub>2</sub> injection and bubble-free CO<sub>2</sub> dissolution. Combined with the reliable O<sub>2</sub> measurement, this enables you to achieve Total Process Control.

The Carbo Controller works by injecting CO<sub>2</sub> at the inlet of a dissolution tube. The CO<sub>2</sub> is then finely dispersed and dissolved by a set of static mixers, that are engineered to suit your specific process conditions.

The In-line CO<sub>2</sub> Gehaltemeter, type AuCoMet-i (or In-line CO<sub>2</sub>/O<sub>2</sub> Gehaltemeter for combined measurement) determines the amount of CO<sub>2</sub> and can immediately adjust the CO<sub>2</sub> dosing rate if necessary. The CO<sub>2</sub> analyzer communicates directly with Pentair Haffmans' CO<sub>2</sub> dosing block through embedded software, or via PLC control. Besides being used to control the carbonization process, the CO<sub>2</sub> content, and optionally the O<sub>2</sub> content, are also available for monitoring the product quality.

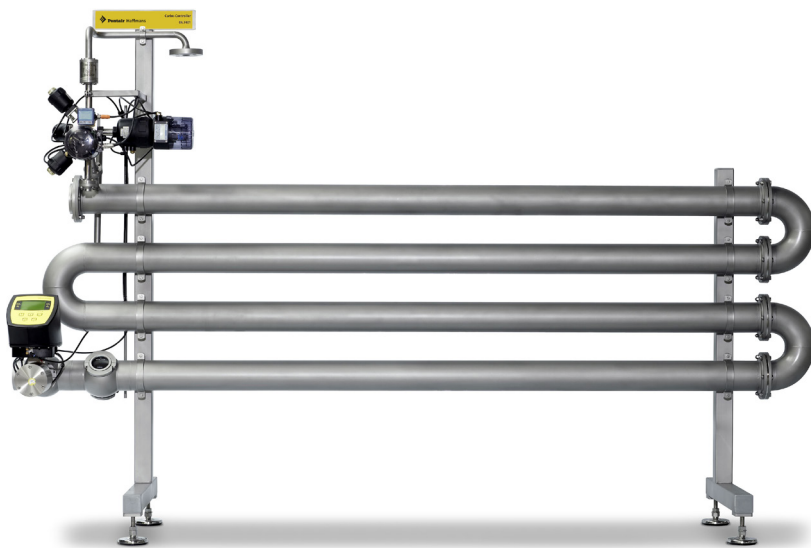
The Carbo Controller is available as either a skid mounted system. It consists of proven components, and includes all required piping, wiring and control systems. The hygienic, fully automated and reliable design guarantees easy handling, low maintenance and a long service life. The quality and reliability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

## BENEFITS

- Perfect process and product control
  - high measuring and control accuracy
  - hygienic design
  - bubble-free CO<sub>2</sub> dissolution
- Cost saving
  - no product loss
  - integrated dosing control (embedded software)

## APPLICATIONS

- Automated and accurate carbonization of beverages



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## TECHNICAL DATA

### Measuring range

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

### Dosing accuracy

± 0.05 g/l

### Material

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

## SCOPE OF SUPPLY

- Skid-mounted CO<sub>2</sub> dissolution tube
- Static mixers
- Pentair Haffmans' CO<sub>2</sub> dosing block
- In-line CO<sub>2</sub> Gehaltemeter, type AuCoMet-i
- Instruction manual

## OPTIONS

- Pressure control loop
- Constant pressure valve
- PLC for control of auxiliary equipment
- Product booster pump
- Profibus or extended I/O Data communication
- Nitrogenation
- O<sub>2</sub> measurement with Pentair Haffmans' OGM



### HAFFMANS BV

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