

# Carbo Controller



## Carbo Controller

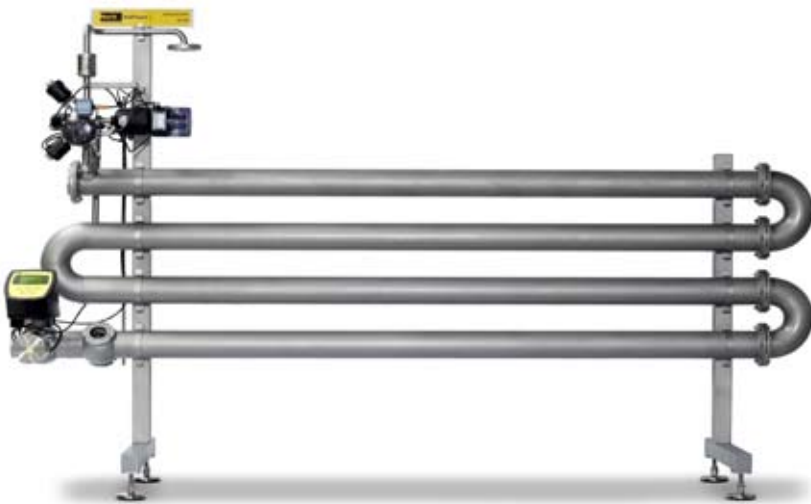
### General product information

The industry developments regarding high gravity brewing, production of non-alcoholic beers, high-volume storage tanks and control of shelf life, have all resulted in a growing demand for CO<sub>2</sub> and O<sub>2</sub> control. 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 our 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, which is engineered to suit your specific process conditions.

The In-line CO<sub>2</sub> Gehaltemeter, type AGM (or In-line CO<sub>2</sub>/O<sub>2</sub> Gehaltemeter, type c-AGM 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 Norit 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 of the beer quality.

The Carbo Controller is available as a skid-mounted or wall 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 underlined by many references around the world.



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## 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

## Technical Data

### Measuring Ranges

CO <sub>2</sub> :	2.0 - 9.9 g/l
O <sub>2</sub> (optional):	0.0 – 2000 ppb

### Dosing Accuracy

CO <sub>2</sub> :	± 0.05 g/l
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### 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
- Norit Haffmans CO<sub>2</sub> dosing block
- In-line CO<sub>2</sub> Gehaltemeter, type AGM
- Instruction Manual

## Options

- Pressure control loop
- Constant pressure valve
- PLC for control of auxiliary equipment
- Nitrogenation
- O<sub>2</sub> measurement with Norit Haffmans c-AGM



### Haffmans BV

P.O. Box 3150 NL-5902 RD Venlo • The Netherlands

T +31 77 323 23 00 • F +31 77 323 23 23

E [info@haffmans.nl](mailto:info@haffmans.nl) • I [www.haffmans.nl](http://www.haffmans.nl)

Please visit our website to obtain information about your local support.

Haffmans BV reserves the right to make changes in the technical specifications at any time.

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