

# CARBO BLENDER CBR

Accurate control of both blending and carbonization is essential in high gravity brewing. Pentair Carbo Blender combines both these functions in one skid-mounted unit, enabling the optimization of beer production with regard to both quantity and quality.

Deaerated water dosing is controlled by either original gravity or alcohol measurement, and carbon dioxide (CO<sub>2</sub>) dosing by CO<sub>2</sub> measurement. In addition, there is the option for combined CO<sub>2</sub>/O<sub>2</sub> measurement.

The Carbo Blender performs blending on the basis of water/beer ratio control, with correction on either original gravity or alcohol content through PLC control. This ensures that the blending process is both effective and highly accurate. After blending, carbonation takes place 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 are engineered to suit your specific process conditions, guaranteeing complete, bubblefree dissolving of the CO<sub>2</sub>.

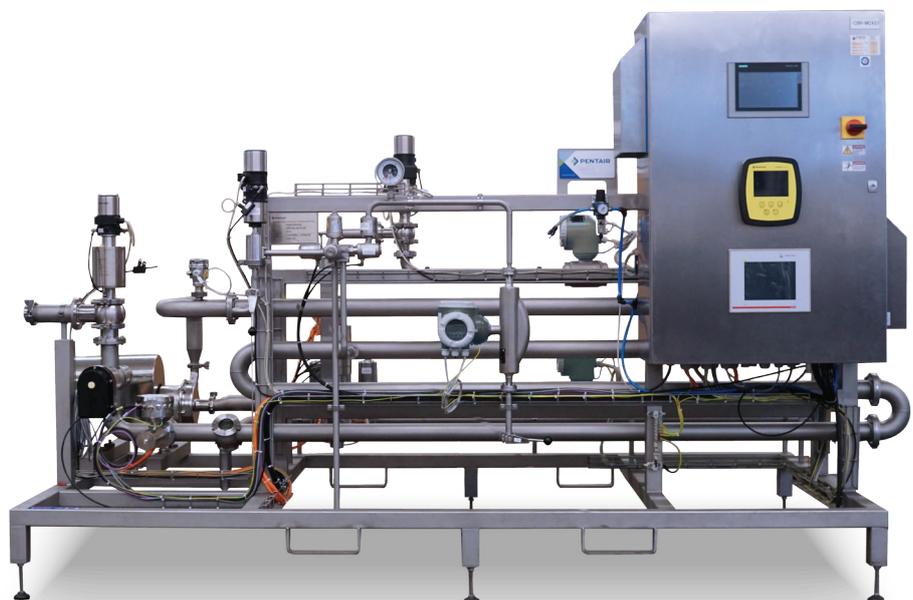
The Carbo Blender is a skid-mounted system, consisting solely of proven components. It includes all required piping, wiring and a PLC control system. The hygienic, fully automated and reliable design guarantees easy handling, low maintenance and a long service life. The quality and reliability of the Carbo Blender is backed by our many references around the world.

## BENEFITS

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

## APPLICATIONS

- ◆ Automated and accurate blending and carbonization of beverages



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## TECHNICAL SPECIFICATIONS

### Measuring ranges

CO <sub>2</sub>	2.0-9.9 g/l
Original Gravity	0 - 20 °Plato
O <sub>2</sub> (optional)	0.0-2,000 ppb

### Material

Product contact parts	AISI 316
Non-contact parts	AISI 304/ABS

### Control Cabinet

Protection class	IP 54
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## SCOPE OF SUPPLY

- ◆ Skid-mounted blending tubes
- ◆ High gravity beer and water flow meters
- ◆ Water flow control valve
- ◆ Original gravity measurement
- ◆ PLC blending control
- ◆ Skid-mounted CO<sub>2</sub> dissolution tube
- ◆ Static mixers
- ◆ Pentair CO<sub>2</sub> dosing block
- ◆ AuCoMet-i CO<sub>2</sub> measurement & dosing control device
- ◆ 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



*Pentair Haffmans  
In-line CO<sub>2</sub> Gehaltemeter,  
type AuCoMet-i*



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