

HAFFMANS CO₂ RECOVERY

CO₂ RECOVERY PLANTS

PRODUCT LEAFLET

GENERAL PRODUCT INFORMATION



In the production of quality beer, breweries rely on many raw materials including water, malt, hops, yeast, and the fifth most important – carbon dioxide (CO₂). CO₂ has a large influence on not only the beer's quality, but also the customer's acceptance of the product. CO₂ treatment, control and dosing are of fundamental importance and should be seen as a total concept of which CO₂ Recovery plays a key role. As a specialist in CO₂ Recovery, Pentair Haffmans is your total CO₂ Management Partner.

Pentair Haffmans offers solutions for every situation. This covers individual components such as CO₂ storage vessels, CO₂ cylinder filling and CO₂ evaporators with reducing set, up to complete CO₂ Recovery Plants from 20 kg/h up to 10.000 kg/h.

We offer a delivery program with a range of options from cost-effective conventional CO₂ Recovery plants to state-of-the-art plants incorporating the latest technologies. In addition, we can update existing plants with these technologies. Worldwide, custom-made solutions will be installed and commissioned by a team of experienced and well-trained service engineers.

To meet the growing demand for CO₂, Pentair Haffmans' R&D Department continuously develops new technologies to improve CO₂ quality, recovery rates and efficiency. Our LO and HLP plants can produce CO₂ with a purity better than 99.998 percent and with less than 5 ppm oxygen (O₂) v/v content. The HLP plant collects raw gas from an inlet of just 95 percent v/v and will be economically recovered while still maintaining a guaranteed outlet purity of 99.998 percent v/v.

With the HLP plant design, breweries can now recover CO₂ gas from fermentation earlier and still provide food-grade CO₂ to meet the demand for beer production, with a surplus of food grade CO₂ that can be used to produce carbonated soft drinks. The main advantage is that fermentation CO₂ produced from beer or other fermentation processes itself guarantees that the recovered CO₂ has fundamentally no food-alien substances and is food-grade.

TOTAL CO₂ MANAGEMENT

- CO₂ Recovery Plants
- Expansion and renovation of existing plants
- CO₂ Recovery Plants Accessories
- CO₂ Quality Control
- CO₂ Analysis Service (CAS)
- After-sales Service
- Training / Maintenance Contracts
- Spare Parts
- CO₂ Audits, Quick scans

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TECHNICAL DATA

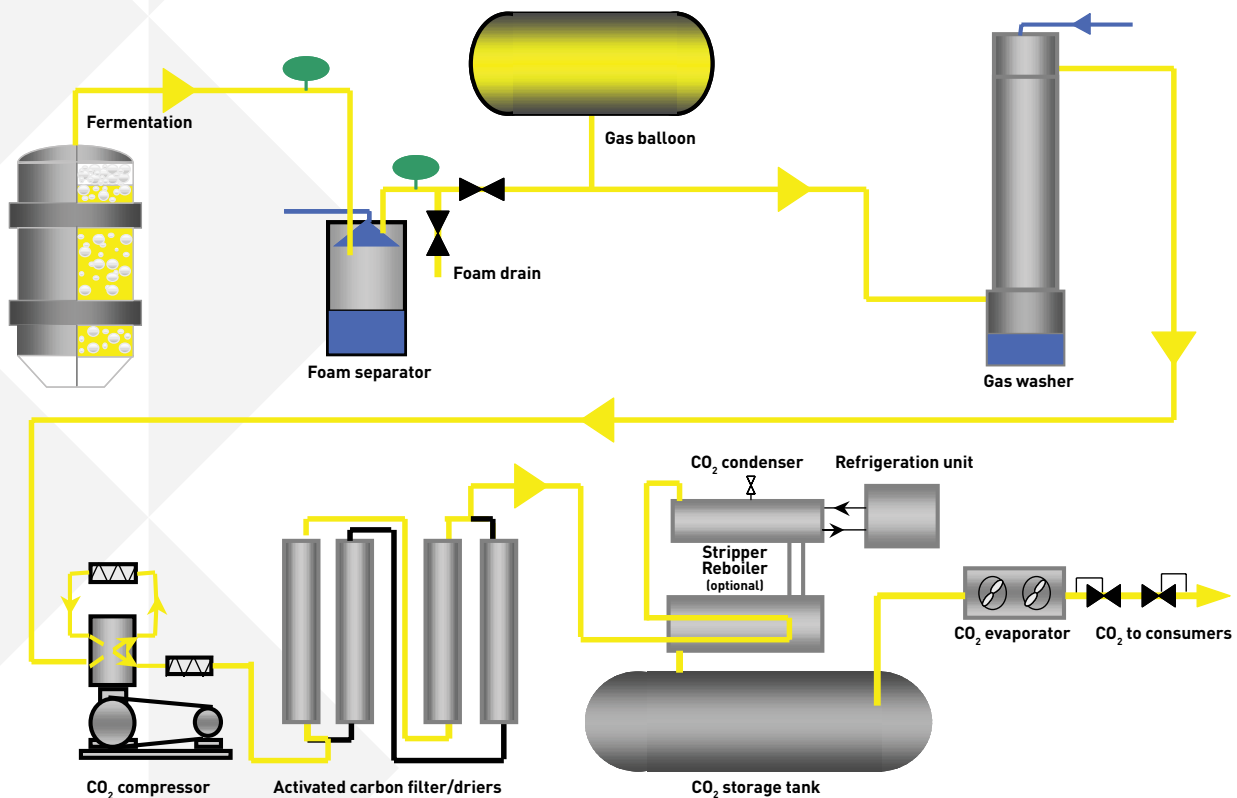
CO₂ Inlet (CO₂ % vol.)

Conventional > 99.7
 LO (Low Oxygen) > 99
 HLP > 95

CO₂ Outlet (CO₂ % vol.)

Conventional > 99.97
 LO (Low Oxygen) > 99.998 / O₂ < 5 ppm
 HLP > 99.998 / O₂ < 5 ppm

RECOVERY PROCESS



HAFFMANS BV

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