



UNION ENGINEERING
HAFFMANS

BREWERIES

DON'T LET A VALUABLE
INGREDIENT ESCAPE
CAPTURE AND USE YOUR
FOOD-GRADE CO₂ WITH
PENTAIR'S RECOVERY
SYSTEMS.

BREWERIES

TAKE ADVANTAGE OF THE WIDEST RANGE OF CO₂ TECHNOLOGIES FOR ALL SIZES OF BREWERIES

For decades, Haffmans and Union Engineering have delivered CO₂ technologies to breweries. Now the two strong brands are both part of Pentair and committed to delivering the most innovative and sustainable CO₂ technologies available in the market.

Since we have joined forces we have taken the best of both worlds and designed a credible,

robust, water saving CO₂ technology for breweries, using our thorough CO₂ expert knowledge and insight.

We are excited to introduce our product range, and whether you are a craft brewer or represent a larger global brewery, we can supply you with a CO₂ technology that improves your production and delivers the highest standard food-grade CO₂.

DON'T LET VALUABLE INGREDIENT ESCAPE

- Robust and flexible design
- 75% water saving = 0,25 kg per kg CO₂ produced
- Can operate with 25, 50, 75, and 100% capacity
- Designed to give the operator the best options to control the plant



THE NEW WATER SAVING AND FLEXIBLE CO₂ RECOVERY PLANT

ECO₂BREW – CO₂ RECOVERY IN A WHOLE NEW DIMENSION

In 2013, Union Engineering introduced a 100% water free CO₂ recovery technology for breweries. The technology is called ECO₂Brew.

A few years later, another new technology followed – a small flexible solution for craft brewers – this we named CO₂mpactBrew.

ECO₂Brew offers great advantages for larger breweries and where reduced water consumption is in focus.

The solution includes the patented CO₂Scrub, which is a well-proven technology also used in other Union Engineering CO₂ plants.

With an ECO₂Brew you obtain a higher recovery rate giving you a 5-10% surplus CO₂ volume that can be utilized for soft drinks.

In case of cider production at same site, the derived CO₂ can be collected, purified in your ECO₂Brew and reused instead of vented to the atmosphere.

ECO₂Brew® FOR LARGER BREWERIES

- 100% water free CO₂ recovery
- 5-10% extra recovered CO₂ for other applications
- Capacity range 1.000 – 3.000 kg/h



CO₂MPACTBREW – RECOVER YOUR OWN CO₂

CO₂mpactBrew is a plug-and-play solution, specially designed for breweries that require a fast installation and option to relocate the plant within a short time without compromising on quality and reliability.

The system is delivered as a containerized solution with all equipment installed inside a container with maintenance aisle and easy connection points for utilities to secure an easy installation setup. The low pressure water scrubber and balloon is installed in the breweries utility room and connected via piping to the container.

CO₂mpactBrew is designed for high efficiency, availability and reliability through components selected for long life and 24/7 operation.

CO₂MPACTBREW™ FOR SMALLER BREWERIES

- Containerized plug-and-play solution – easy to relocate
- Self-sufficient CO₂ supply from own fermentation process
- Highest quality CO₂ – 25-160 kg/hr



OPTIMAL LIFECYCLE MANAGEMENT

Operating a state-of-the-art beer filtration plant, requires just-in-time processes, minimized production losses and compliance with tough quality regulations. This is why it is so important to have precisely planned service intervals, trained service personnel and an outstanding supply of original spare parts.

Our dedication to your system continues after the sale. Through comprehensive lifecycle management, Pentair ensures that your installation operates at optimal performance. Pentair's Service Level Agreements are offered worldwide. They include monitoring of the system via the Internet to help diagnose operational problems, a short engineer response time of 24 hours and faster access to system components. This keeps downtime to a minimum in case of emergency.

Proper planning is key, and maintenance costs can be significantly reduced through accurately planned service intervals. Preventive maintenance helps to minimize maintenance time and unscheduled downtime. All of this contributes to a lower Total Cost of Ownership.

Pentair supports you in creating custom-made service plans that perfectly fit your requirements. In addition, Pentair offers plant audits that may relate to processes such as energy savings, increasing operational reliability or the expansion/ upgrading of an existing installation. Audits can be carried out externally by means of a simulation or directly on-site.

For operation and service personnel, Pentair offers classroom and hands-on trainings on specific projects. Do not hesitate to contact us for more details on our trainings program.

FOR A RELIABLE AND EFFICIENT OPERATION

- Maximum operation uptime
- Reduced maintenance costs
- Variety of service options to choose from



PENTAIR UNION ENGINEERING A/S

SNAREMOSEVEJ 27, 7000 FREDERICIA, DENMARK INFO: UNION_UNION@PENTAIR.COM WWW.UNION.PENTAIR.COM

PENTAIR HAFFMANS BV

MARINUS DAMMEWEG 30, 5928 PW VENLO, THE NETHERLANDS, WWW.FOODANDBEVERAGE.PENTAIR.COM

All Pentair trademarks and logos are owned by Pentair. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.