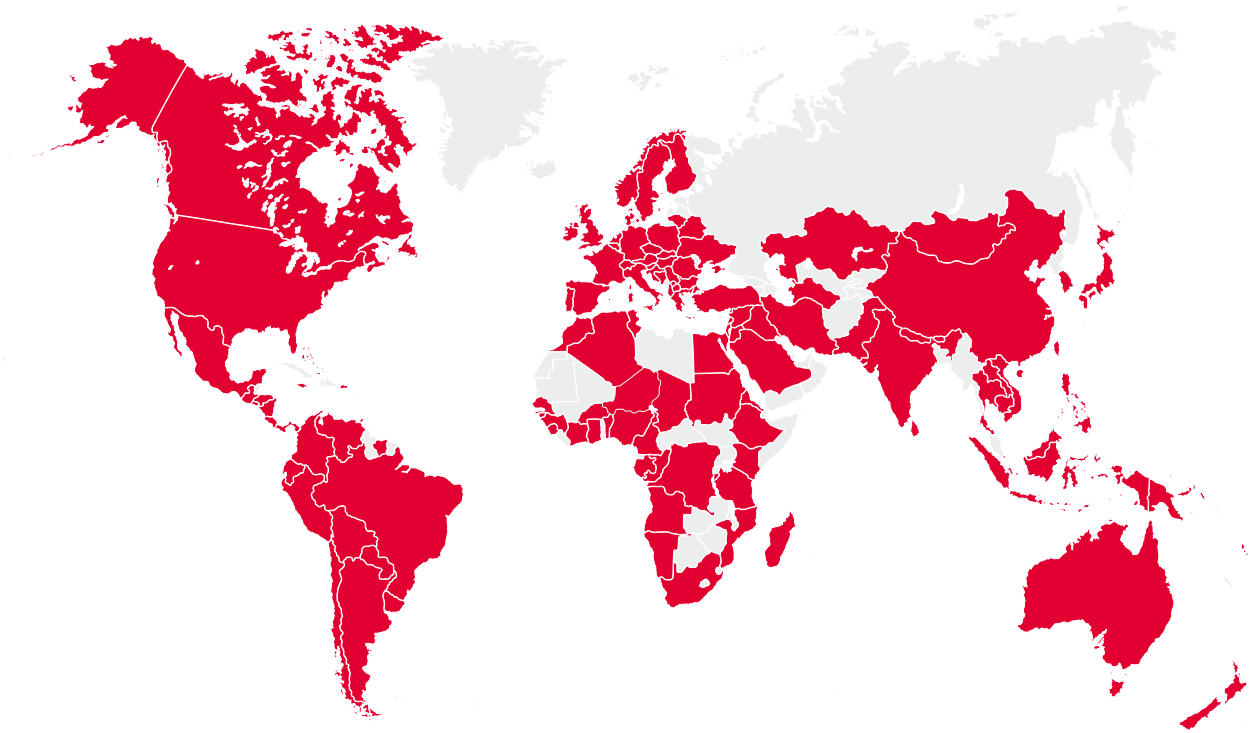


BUCHER
denwel

Solutions for Cold Block



Our Playground



Over 4,600 References
in 130 Countries

Innovative Brewing Technologies for Cold Block

Bucher Denwel develops and produces a wide range of specialized equipment and provide engineering solutions dedicated to help brewers to optimize their processes.

We build safe and reliable Cold Blocks for your brewery. Our scope includes technological design, supply of the equipment and process automation, installation and commissioning. We offer complete new turnkey projects or upgrades and extensions of existing plants.

Combining experience and innovation we supply brewing equipment such as Filtration systems, Yeast plants, Water Deaeration, Blending, Carbonation, Dosing and Hard Seltzer systems, Dealcoholisation, CIP, Cold sterilisation, Flash Pasteurization and Beer tanks.

We have a global presence. Our sales and service network are always available for you to provide consultancy, technical support and after sales service.

Bucher Denwel is member of Bucher Unipektin, Swiss leading supplier of process technology for the beverage and food industry.

Yeast Plant

Propagation, Storage, Pitching

The highest hygienic and quality standards are always maintained. Yeast is propagated in time at required concentration and volume, yeast is harvested and treated directly after fermentation, multiple yeast strains are properly stored and scheduled to make sure, that each batch is pitched with corresponding and vital yeast with no cross contamination of strains.

- Various yeast strains
- Flexible design
- Highest hygienic standard



Cerinox® BR

Crossflow beer recovery

A compact cross-flow filtration plant equipped with ceramic tubular membranes. The plant consists of a filter unit and the CIP station. Both can be arranged separately or on a common unit. Different automation levels are available, from manually controlled units up to fully automated plants.

- Short payback period
- Economic system with diafiltration
- High quality of recovered beer



Synox 2.0[®] PF and PS

Precoat candle filters

Synox 2.0[®] PF offers excellent value for all kinds of precoat filtration within a hygienic environment. Synox 2.0[®] PS is designed for economical treatment of beer by using regenerable PVPP to achieve a long shelf-life. Unique, patented STABOX[®] candle completely in stainless steel for high packing density with reduced void volume.

- Reduced pre-run and beer losses
- Reduced cleaning water consumption
- Reliable beer stabilisation



Inline Carboblender

Automatic unit

The Carboblender provides precise and reliable Extract/ Alcohol concentration adjustment and carbonation of Beer or Cider at one process step. Inline process analytics guarantees very high accuracy.

- Instant blending and CO₂ saturation
- Multiple valve control for precise blending
- Alcohol, Extract and CO₂ analyser controlled



Water Deaeration

Cold / Hot / Vacuum unit

The deaeration column is filled with high efficient structured packing. Its large internal surface ensures a maximal contact area between gas and liquid. Water is homogeneously distributed on the top and CO₂ or N₂ is injected at the bottom of the column. While the water flows downwards through the packing, the CO₂ or N₂ rises in counter current removing the oxygen.

- Final oxygen below 5 ppb
- Very low CO₂ or N₂ consumption
- Efficient and hygienic design



DE-Alconox B

Thermal dealcoholisation

Designed in a way to produce a highly dealcoholised beer as well as rectified alcohol with minimum negative side effects on beer quality. Flexible design regarding product flow and composition and also suitable for non-filtered beer.

- Processing at lowest temperatures (39 °C)
- Dealcoholisation down to <0.02% vol.
- Suitable for filtered and non-filtered beer



Flash Pasteurization

Automatic unit

The Flash Pasteurization Automatic unit is designed for safe, precise and reliable heating of beverages. While reducing pathogenic microorganisms, uniform and gentle treatment is applied to maintain the original taste and appearance of beverage.

- Gentle and precise heat treatment
- Consistent Pasteurization
- Heat recovery up to 96%



Stefinox

For cold sterile filtration of beer

Cold sterile filtration before the filler is an alternative to flash pasteurization. Stefinox allows a flexible and easy-to-integrate and safe solution for a reliable product shelf life. It uses standard cartridges, and an integrity test of these membrane cartridges can be performed before each run.

- Standardised units for easy installation and operation
- Prefiltration – sterile filtration – media filtration
- Maximum safety and cartridge lifetime



CIP

Plant

Fully automatic system, programmed to achieve optimal sanitation of the entire production line. It comprises of a complete set of equipment for CIP, including tanks for recovering water, acid and hot caustic, pumps, heat exchangers, valves and instrumentation such as conductivity and flow transmitters.

- Fully automatic CIP programs ensure perfect cleaning
- Economical production due to full automation
- Individual programming of each cleaning circuit



Tanks and Vessels

Food & Beverage

Process and storage tanks made of stainless steel for various applications in the beer industry. We supply tanks and vessels, each custom designed and developed applying the latest version of the computer calculation software. State-of-the-art manufacturing equipment ensures improved time to delivery and cost reductions.

- CCTs, BBTs, Buffer tanks and Storage vessels
- Customized design, Heating/Cooling system and insulation
- Up to volume 2 500 hl built in workshop, larger on site

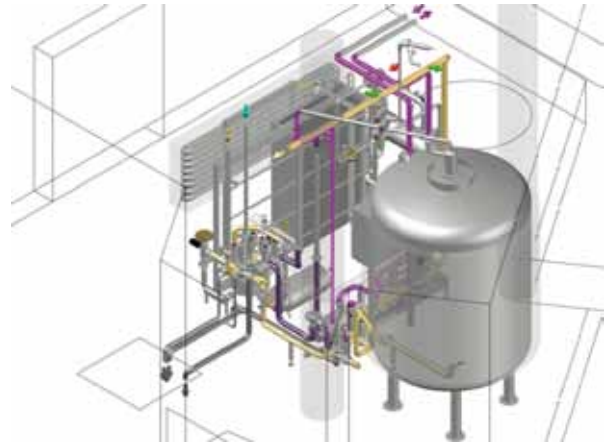


Engineering

Brewing

We provide consulting, feasibility studies, project documentation for tenders, basic and detailed engineering, technical and technological audits. We deliver automation solutions based on PLC and SCADA.

- Basic and Detailed engineering
- Technical and Technological audits
- Feasibility studies and Process automation



Pilot plants

Engineered unit

We engineer units to your specific needs. Based on the analysis of your process targets, production volumes, quality parameters and automation level a custom design pilot plant is built, tested and certified at our facilities.

- Specific process parameters design
- Various beverage application
- Best technology manufacturing



Your success is our mission

Bucher Unipektin is your partner and supplier for single units as well as complete lines for the solid-liquid separation, filtration, juice treatment and concentrate production. These beverage technologies are mainly used for the production of fruit juices and purées as well as in brewing beer. But also, for vegetable and citrus juices, flavors and plant extract recovery within the pharmaceutical industry we offer solutions. Further we design and construct industrial vacuum and freeze dryers (lyophilisation). These are, among other fields, used for the production of instant soups and beverages.

Another business area is environmental technology, where we achieve successful results in sewage sludge and industrial sludge dewatering as well as in the solid-liquid separation of drinking water treatment plants.

First class products and services form the base of our market leading position. We operate with high motivation and flexibility with our customers, based on defined needs as well as new market trends' innovative solutions and products are developed. Thereby ecological aspects are respected.



Water
Deaeration

Part of Bucher Unipektin

Bucher Denwel, spol. s r.o.

K Hajum 2

155 00 Praha

Czech Republic

+420 270 007 400

sales@bucherdenwel.com

bucherdenwel.com