

De-Alconox B

Thermal dealcoholisation of beer



Dealcoholisation of beer

- Processing at lowest temperatures (<39 °C)
- Dealcoholisation down to <0.03 % vol.
- Suitable for filtered and non-filtered beer



Application

Bucher Denwel dealcoholisation plants are designed in a way to produce a highly dealcoholised beer as well as rectified alcohol with minimum negative side effects on beer quality. Additionally, the design is flexible regarding product flow and composition and is also well suitable for non-filtered beer. It is therefore a sustainable investment enabling a brewery to serve all current or future market trends.

Process

Firstly, the beer is gently degassed in order to avoid foaming throughout the process. The temperature of the incoming product is adjusted in counterflow to the outgoing dealcoholised beer. In a special Bucher Denwel degassing system very low final gas levels are achieved at a pressure slightly below the boiling pressure.

The alcohol is then removed from the beer and rectified in a special column. The column consists of two sections: a first section for stripping the alcohol out of the beer and a second section for rectifying the alcohol to the desired concentration.

The unique design of the high precision inserts provides several advantages:

- minimum pressure drop allows a low temperature at the bottom of the column with least impact on beer quality and optimised energy consumption compared to similar systems.
- high tolerance for suspended particles enabling trouble-free processing of non-filtered beers.
- very low alcohol content achievable providing maximum options for final blending with non-treated beer.

The energy for the stripping and rectifying column is supplied by a small amount of vapour which is evaporated out of the already dealcoholised beer. Bucher Denwel uses evaporator bodies with a large heat transfer surface which minimises the required surface temperature in contact with the product. Finally, the beer is cooled back and carbonised again.

The whole process is operated under vacuum limiting the product temperature to <math><39^{\circ}\text{C}</math> and excellently preserving the quality of the treated beers.

Technical data / Capacities

Standardised dealcoholisation plants are available from 5 up to 200 hl/h.

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Technical changes reserved.

Products

We develop and produce a wide range of specialized equipment and provide engineering solutions dedicated to help brewers to optimize their processes.

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.

Services

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