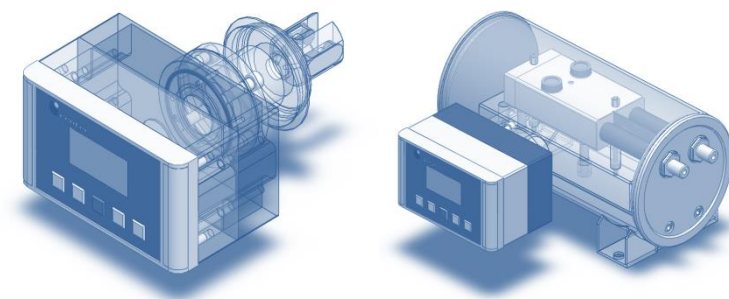


The Centec Group

Centec is a privately owned group of companies. Our automated process skids are used throughout the entire brewing process. For soft drinks, dairy and food industries we offer a large variety of skid mounted systems. We have decades of experience in water purification and deaeration, carbonation, liquid blending and dosing, flash pasteurization and cleaning-in-place. Centec technology includes a range of high precision process sensors for accurately measuring critical product properties such as extract, alcohol, milk fat, O₂ and CO₂. The largest brewery, soft drink, dairy and food groups in the world are among our key customers.



Accuracy. Reliability. Centec.

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DeAlcoTec

Dealcoholization

Centec Beverage Systems



Automated
process skids
and high precision
sensors from a
single source.
Centec.

DeAlcoTec

The Principle

The Centec dealcoholization system DeAlcoTec is a sophisticated and highly efficient system for the removal of alcohol from beers. Incoming alcohol rich product is first gently heated by a heat exchanger to promote evaporation. It is then injected into the top of a specially designed evaporation column. At the bottom of the column exhaust vapours are also injected. They rise upwards inside the column counter current to the falling warm liquid, thereby removing the volatile alcohol components from the beer. The less volatile components in the beer fall to the column base where some are heated to produce more exhaust vapours for reuse in the system. The remaining alcohol-free product is pumped away and cooled for storage or further processing as required, e.g. for carbonation. The volatile flavours from the original product can be separated from the exhaust vapours in a special aroma recovery system and added back to enhance the taste of the finished beverage. If required, the alcohol vapours are concentrated, chilled and condensed to form liquid alcohol of up to 90 vol.% for use in other applications or for sale to industry as a food grade product. The DeAlcoTec system can also be applied for wines and ciders.

Technical Data

Capacity	4 - 200 hl/h
Initial Alcohol	4,5 - 5,5 vol.% (higher for wine)
Residual Alcohol	0,01 - 0,4 vol.%
Rectified Alcohol	30 up to 90 vol.%
Pressure of Operation	40 - 60 mbar
Temperature of Operation	35 - 45 °C (CIP up to 95 °C)
Material	1.4301/1.4404 AISI 304/316L
Heating Medium	hot steam, water
Cooling Medium	glycol, tower water, ammonia
PLC	SIMATIC S7
Options	aroma re-dosage carbonation, pasteurization alcohol rectification/storage

The Centec production is certified according to ISO 9001.



- **Application Specific and Energy Efficient**
low residual alcohol almost below the detection limit
aroma recovery for optimum taste of finished product
alcohol rectification and storage on demand
- **Modular Design with Standard PLC**
skid mounted for easy installation and start-up
- **Hygienic Execution and Full CIP Capability**
- **Outstanding Price-Performance-Ratio**

Experience. Expertise. Centec.

*Ion Exchange · Reverse Osmosis · Membrane Deaeration · Column Deaeration · Hops Pre-Isomerization
Wort Aeration · Yeast Pitching · Nitrogenation · Carbonation · Carboblending · High Gravity Blending
Multi Component Mixing · Additive Dosing · Flash Pasteurization · Cleaning-in-Place · Dealcoholization*

