CLEAR**ALC**

The Next Generation of Dealcoholization Technology

- An exceptional combination of quality, efficiency, and flexibility.

- Tailored for the Low and No Alcohol Products Market.

- Built with sustainability in mind.

BevZero Equipment is proud to be the exclusive distributor of the next generation of dealcoholization technology — ClearAlc from Tomsa Destil.
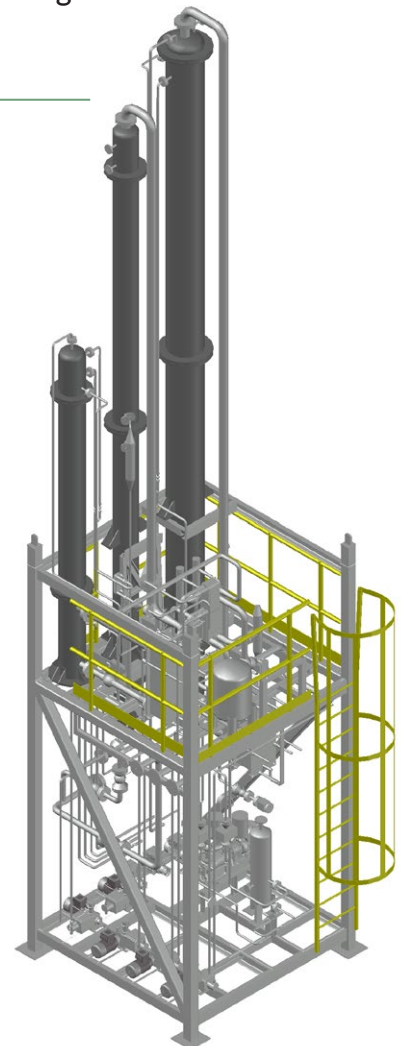

ClearAlc uses a patented highly energy-efficient, single pass vacuum distillation process capable of separating different volatile aromatic compounds (heads, hearts, and tails). ClearAlc is capable of dealcoholizing as desired down to 0.05% abv, and rectification of the alcohol fraction (up to 92% abv). ClearAlc's design uses advanced technologies to ensure sustainability with very high energy efficiency, lower maximum temperature, and minimal water use.

ClearAlc is designed and manufactured by Tomsa Destil, a company headquartered in Madrid, Spain with more than 170 years of experience providing engineering solutions worldwide for the alcohol industry (fuel alcohol, industrial alcohol and potable alcohol) and by-products processing.

ClearAlc Features and Benefits

- Dealcoholization for Wine, Spirits, and Cider
- Model Sizes: 800 L/h to 3000 L/h
- Full automated single pass process
- High flexibility products separation
  – Dealcoholize as desired down to 0.05% abv
  – Rectification of the alcohol fraction (up to 92% abv).
  – Extraction of heads, hearts, and tails
- Very high energy efficiency
- Reduced product losses
- Minimal water use
- High vacuum, low temperatures and reduced impact on wine aromas
- Design compliant with local standards and requirements
- EU quality craftsmanship, materials, and quality controls
- Self-supported skid mounted units
- Integrated MCC & Control panels
- Highly automated system with remote data acquisition
- Optional enhancements: degasification column, heat pump, Electrical boiler, integrated cooling, and CIP system
- Spare parts / O&M services available

Lab scale testing on every unit

Tomsa Destil carries out lab scale testing on all ClearAlc Dealcoholization units manufactured. Lab scale testing ensures that each unit performs to the highest standards before full-scale production. By running the unit under controlled conditions, they can verify that it effectively removes alcohol as expected. Tomsa Destil ensures that every unit they produce can reliably and efficiently meet the requirements of their customers while maintaining product quality and safety.

Tests include:

- Lab Scale dealcoholization test
- High Vacuum and Low Temperatures
- Dealcoholized and alcoholized streams tested
- Quality testing of multiple samples by team of Enologists

ClearAlc Dealcoholization and Sustainability

High Energy Efficiency:

- Reduces alcohol down to 0.05% ABV in a single pass, eliminating the need for additional passes, decreasing energy, cost, and time.
- Incorporates optimal heat exchanger and advanced heat pump designs to reduce energy consumption and operational costs.
- Uses an increased vacuum to lower the boiling point, enabling evaporation at significantly lower temperatures, thus conserving energy compared to traditional high-heat methods.

Sustainable Materials: Use of sustainable and food-grade materials that are durable, easy to clean, and reduce environmental impact.

Minimal Water Use: Minimal water consumption for the vacuum pump purge.

Aroma Recovery: Capability to recover and reintroduce the natural aromas during the dealcoholization enabling greater end product quality and integrity.

CLEARALC | BEVZERO
EQUIPMENT SALES & DISTRIBUTION

BevZero Equipment also offers turnkey solutions for dealcoholization by integrating the ClearAlc technology with all components and auxiliary equipment needed to build a dealcoholization plant either from greenfield or as an add-on to an existing production facility.

CONTACT US TODAY TO LEARN HOW WE CAN HELP YOU!

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GLOBAL SALES

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CLEARALC

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EQUIPMENT SALES & DISTRIBUTION