



CRYOGENIC ETHANOL EXTRACTION SYSTEM

We build advanced cryogenic ethanol extraction systems that enhance processing by boosting efficiency, yield, and product quality while reducing cycle time and labor. Operating at temperatures down to -40°C , our systems ensure high cannabinoid yields, minimize impurities like waxes and chlorophyll, and reduce the need for post-purification. With integrated intelligence and recipe management, our automated systems streamline operations, requiring minimal manpower and lowering costs. This comprehensive approach delivers superior results in efficiency, quality, and scalability.

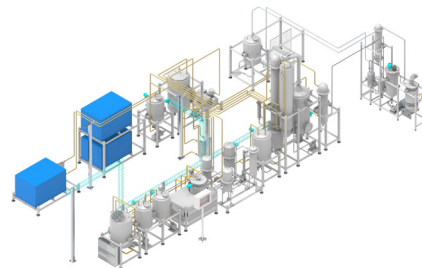
buffaloextracts.com



LEVEL 1

5 kg Per Batch

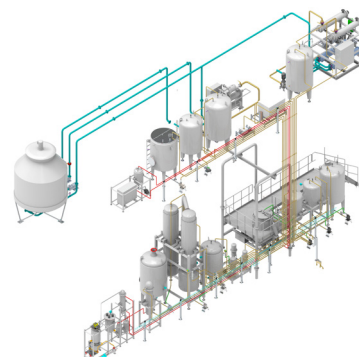
Our Level 1 Cryogenic Ethanol Extraction Systems are perfect for small-scale producers focused on precise, small-batch extractions.



LEVEL 2

20 kg Per Batch

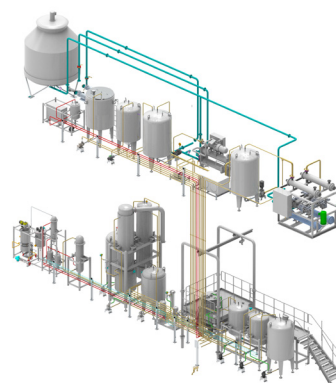
Our Level 2 Cryogenic Ethanol Extraction Systems suit medium-scale producers requiring higher capacity for larger batches.



LEVEL 3

50 kg Per Batch

Our Level 3 Cryogenic Ethanol Extraction Systems meet the demands of commercial-scale producers for high-volume extractions.



WATCH OUR SYSTEM IN ACTION

Technical Specification	Level 1	Level 2	Level 3
Biomass Processing Capacity (Per Day)	80 kg/ 176 lbs	320 kg/ 705 lbs	800 kg/ 1763 lbs
Typical Batch Time (Minutes)	30	30	30
Ethanol Loss Per Batch (%)	5 - 10	5 - 10	5 - 10
Extractor Volume (Liter)	60	240	600
Area Required (m/ft)	7 x 1 x 3.2/ 23 x 3.3 x 10.5	10 x 5 x 5/ 33 x 16.5 x 16.5	17 x 6 x 6/ 55.7 x 20 x 20
Power Consumption (kW)	91 (Heating Included)	150 (Heating Included)	250 (Heating Included)

SYSTEM FEATURES



Pure Extraction

98% ethanol recovery at
350 Liter/Hour



High-capacity, Continuous Operation

Automation for reliable
functioning



Food-grade Construction

Hygienic, SS316 L Built



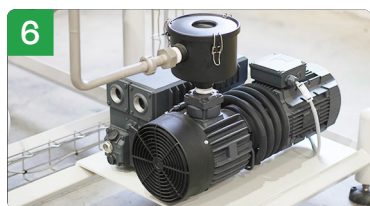
GMP Compliant

Customized GMP documentation
for sustained efficiency



Precise Chilling

Controlled cooling optimizes
operational range



Energy Efficiency

Heat recovery minimizes utility
expenses



Expert Training & Service

On-site, complete training and
rapid resolution of service-
maintenance queries, if any



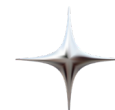
Intuitive Intelligence

SCADA enabled recipe-based
control as well as remote
monitoring and maintenance

Certifications



We Don't Just Build The Best Systems,
We Build Ecosystems.





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Founded in Bentonville, Arkansas, USA, Buffalo Extraction Systems is a turnkey solutions provider in the extraction space. We are led by a young, dynamic group of technocrats offering state of the art extraction solutions for Hemp, Cannabis, Bio-products and Nutraceuticals industries across geographies. We have in-house manufacturing for large scale Convection Drying, Cryogenic Ethanol Extraction, Cold Water Extraction and Supercritical Fluid Extraction (CO₂ SCFE) Systems.

Our Turnkey Solutions

Supercritical Fluid Extraction (CO₂ SCFE) System

Cryogenic Ethanol Extraction System

Conveyorized Biomass Sorting, Drying & Milling

Continuous Winterization System

Nordex 100 - Cold Water Extraction System

GMP Design Engineering

Contact Us

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