



**BUFFALO
EXTRACTION
SYSTEMS**

by Cybernetik

CRYOGENIC ETHANOL EXTRACTION SYSTEMS

LEVEL 3 (50 kg)

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

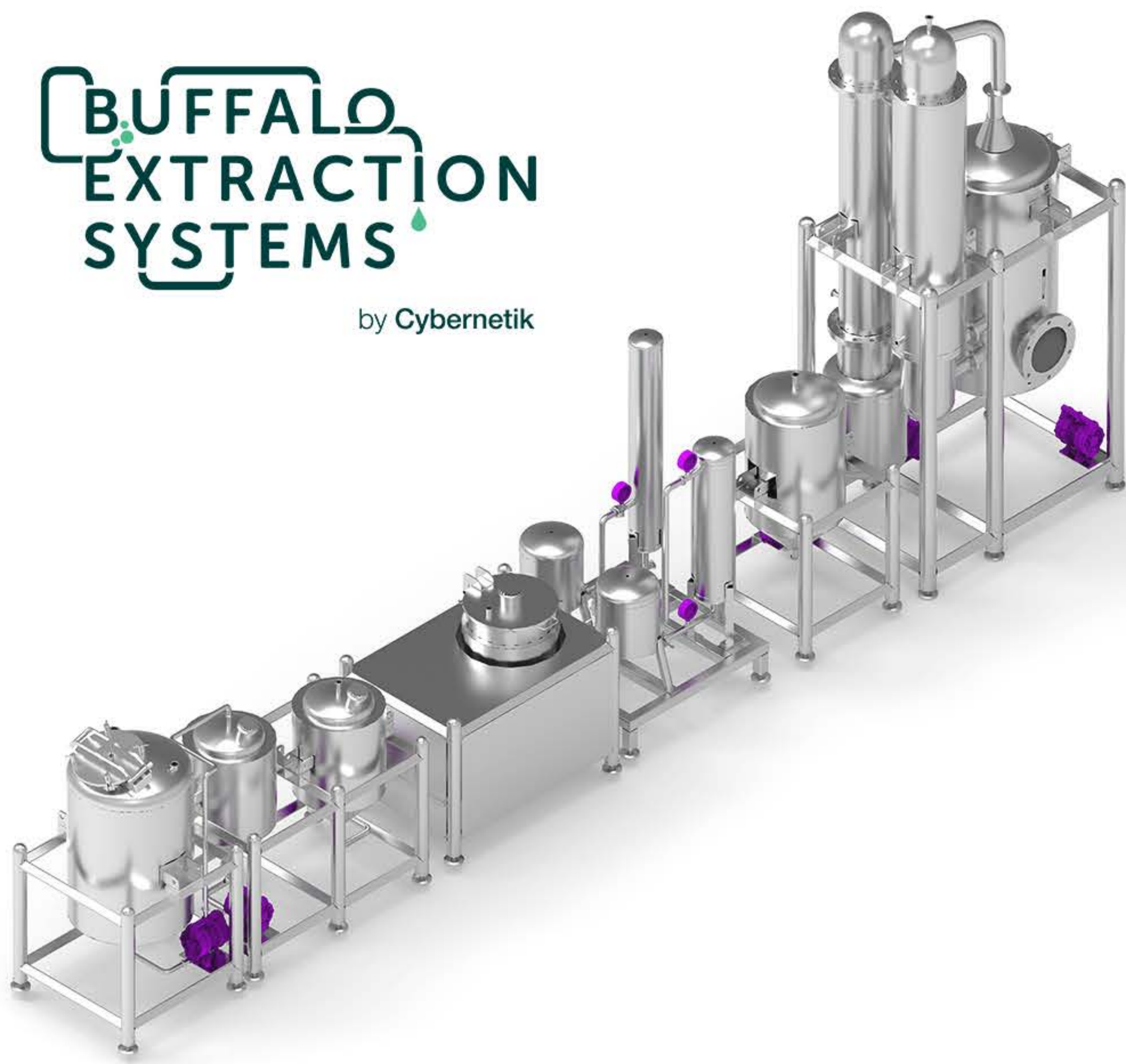
Contact Us

Buffalo Extraction Systems
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Cryogenic Ethanol Extraction Systems

Buffalo Extraction Systems' Cryogenic Ethanol Extraction System cuts down process time from days to hours and delivers a pristine, full-spectrum product. Our skidded, scalable system enables automated solvent cooling and recovery, extraction, de-solventization, filtration and decarboxylation.

Technical Specifications

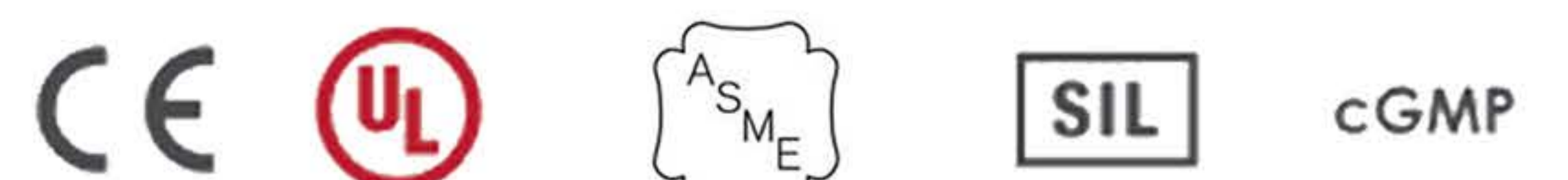
Parameter	Level 3 (50 kg)
Extractor Volume (Liter)	600
Extractor Capacity per batch (kg/lbs)	50/110
Typical Batch Time (minutes)	30
Biomass Processing per day (kg/lbs)	800/1763
Ethanol Storage Volume (Liter)	2400
Ethanol Pre-Chiller Volume (Liter)	800
Filtration Skid: #1: Bag Filter, #2: DE Lenticular Filter (Cellulose & Diatomite), #3: DE Lenticular Filter (Cellulose & Activated Carbon), #4: Sintered Tierod Cartridge Filter	Included
Buffer Tank Volume (Liter)	1500
Solvent Recovery Capacity (Liter/hour)	2000
Clean Area Required (m)	17 × 6 × 6
Technical Area Required (m)	20 × 15
Recipe Management & Data Logging	Included
Power Required (kW)	250 (Excluding Heating)
Ethanol Loss per batch	5% - 10%

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Certifications



System Features



Pure Extraction

98% ethanol recovery at 350 lit/hr



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

Proprietary Tablet APP enables recipe-based control as well as remote monitoring and maintenance

