



**BUFFALO
EXTRACTION
SYSTEMS**

by Cybernetik

CRYOGENIC ETHANOL EXTRACTION SYSTEMS

LEVEL 1 (5 kg) & LEVEL 2 (20 kg)

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

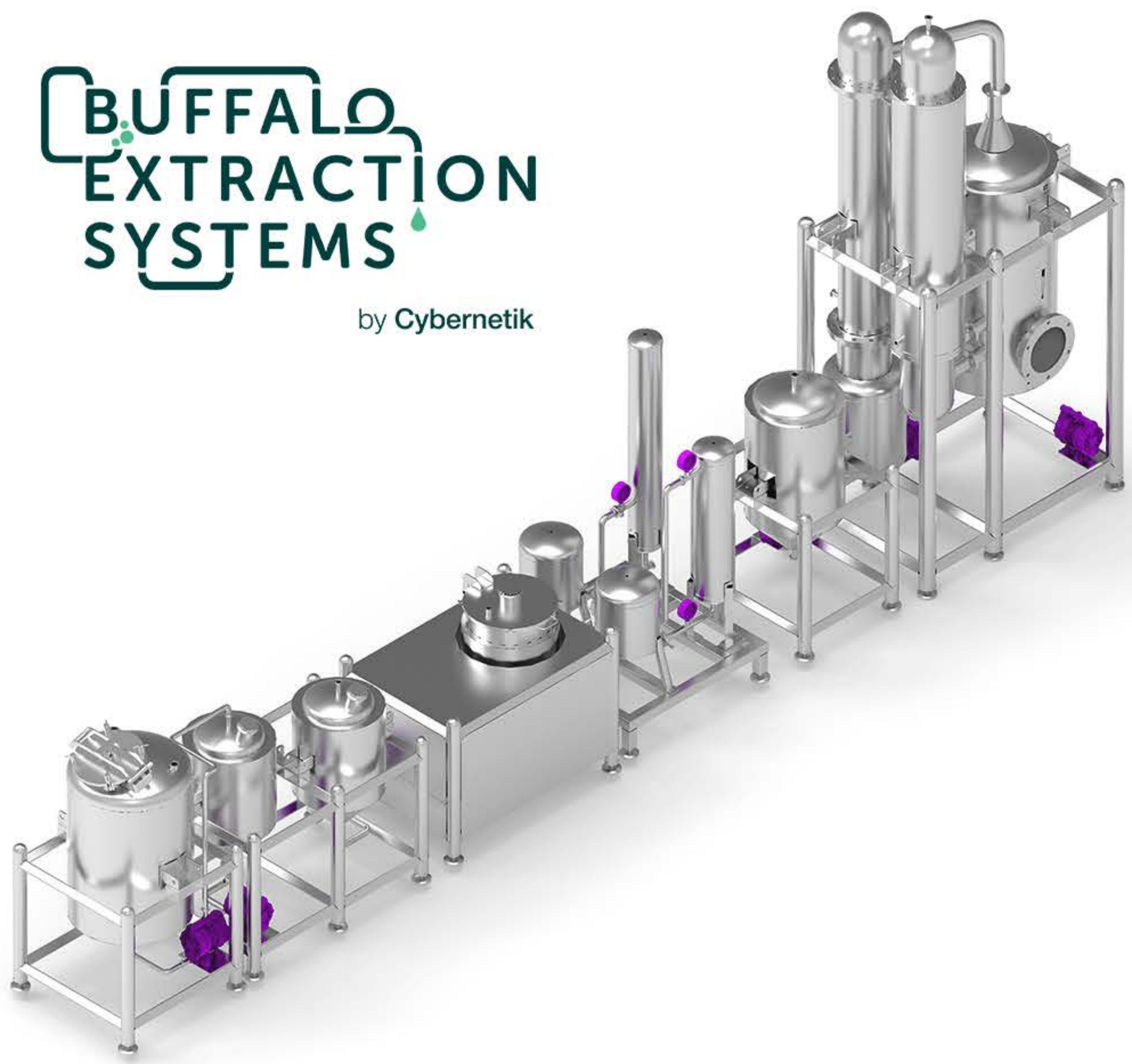
Contact Us

Buffalo Extraction Systems
Bentonville, AR 72712, USA.

+91 86013 75715

info@buffaloextracts.com

buffaloextracts.com



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

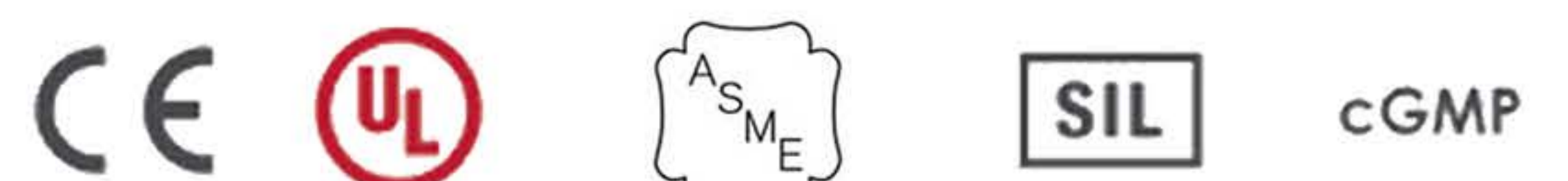
Parameter	Level 1 (5 kg)	Level 2 (20 kg)
Extractor Volume (Liter)	60	240
Extractor Capacity per batch (kg/lbs)	5/11	20/44
Typical Batch Time (minutes)	30	30
Biomass Processing per day (kg/lbs)	80/176	320/705
Ethanol Storage Volume (Liter)	240	1000
Ethanol Pre-Chiller Volume (Liter)	80	300
Filtration Skid: #1: Bag Filter, #2: DE Lenticular Filter (Cellulose & Diatomite), #3: DE Lenticular Filter (Cellulose & Activated Carbon), #4: Sintered Tierod Cartridge Filter	Included	Included
Buffer Tank Volume (Liter)	150	600
Solvent Recovery Capacity (Liter/hour)	200	800
Clean Area Required (m)	7 × 1 × 3.2	10 × 5 × 5
Technical Area Required (m)	6.5 × 2.1 × 2.5	8 × 4 × 5
Recipe Management & Data Logging	Included	Included
Power Required (kW)	91 (Heating Included)	150 (Excluding Heating)
Ethanol Loss per batch	5% - 10%	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

