



SUPERCritical FLUID EXTRACTION (CO₂ SCFE) SYSTEM

Our CO₂ extraction systems deliver high yields, pure products, and EU GMP compliant results. With fractional separation, precise pressure control, and consistent flow, they ensure tailored extractions and minimal post-processing. Intuitive intelligence and automation streamline operations, preserving sensitive compounds while reducing costs. Scalable, eco-friendly, and efficient, they set the standard for quality and performance.

buffaloextracts.com



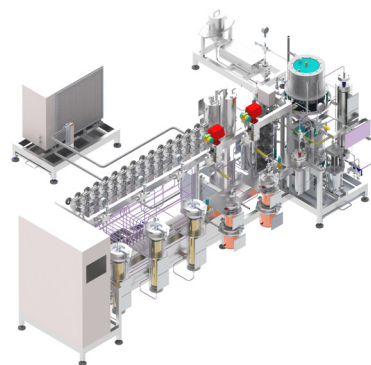
LEVEL 1

10 L/15 L

350/600 Bar



Our Level 1 SCFE Systems are ideal for small scale producers or research and development labs with pilot extraction requirements.



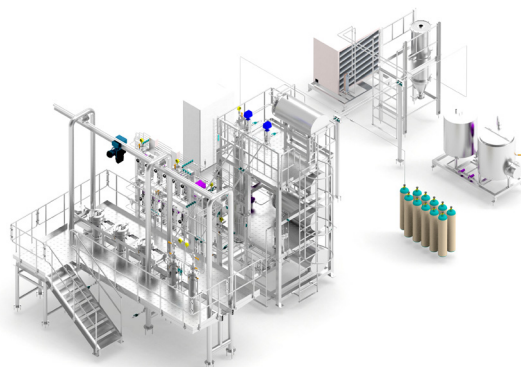
LEVEL 2

50 L/75 L

350/600 Bar



Our Level 2 extraction systems are ideal for automated extraction at sub-critical and supercritical process parameters.



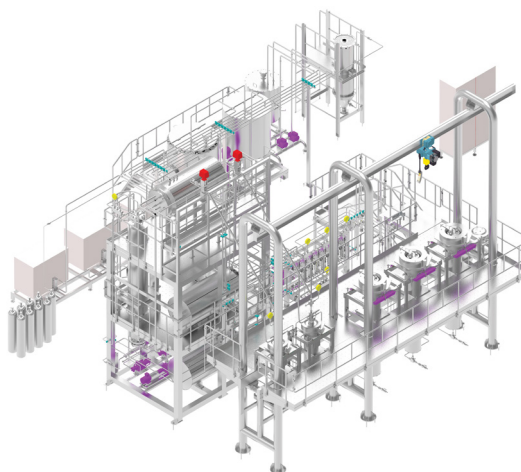
LEVEL 3

200 L/300 L

350/600 Bar

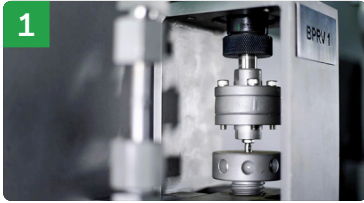


Production scale extraction requires robust extraction systems that can deliver efficiency, speed, and high quality end products.



Technical Specification	Level 1	Level 2	Level 3
Biomass Processing Capacity (Per 8 Hr Shift)	20/40 kg 44/88 lbs	200 kg/400 kg 440/881 lbs	400/800 kg 881/ 1763 lbs
Flow Rate of CO ₂ Pump (LPH)	50	180	800
Maximum Extractor Temperature (°C/°F)	70/158	70/158	70/158
Area Required (m/ft)	6 x 1.5 x 2.44/ 20 x 4.5 x 8	8 x 2.8 x 5.6/ 26 x 27 x 18.5	9.4 x 6.7 x 7/ 31 x 21 x 23
Power Consumption (kW)	10.8	33	54

SYSTEM FEATURES



Precise Pressure Control

Guaranteed consistent solvent solubility for targeted extraction



Consistent Flow Control

Highest levels of extraction efficiency delivered by controlled pump speed



Superior Sealing Technology

Ensure minimum downtime and reduced maintenance



Unique Extractor Closure Design

Rapid batch changeover with minimal interruption



Special Separator Design

Easy collection of highly resinous and low-viscosity products



Proprietary Changeover Valves

Quick changeover and isolations, even at high pressures



Intuitive Intelligence

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



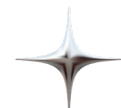
Optional Items

CIP Unit
Scrubber
Co-solvent Pump

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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