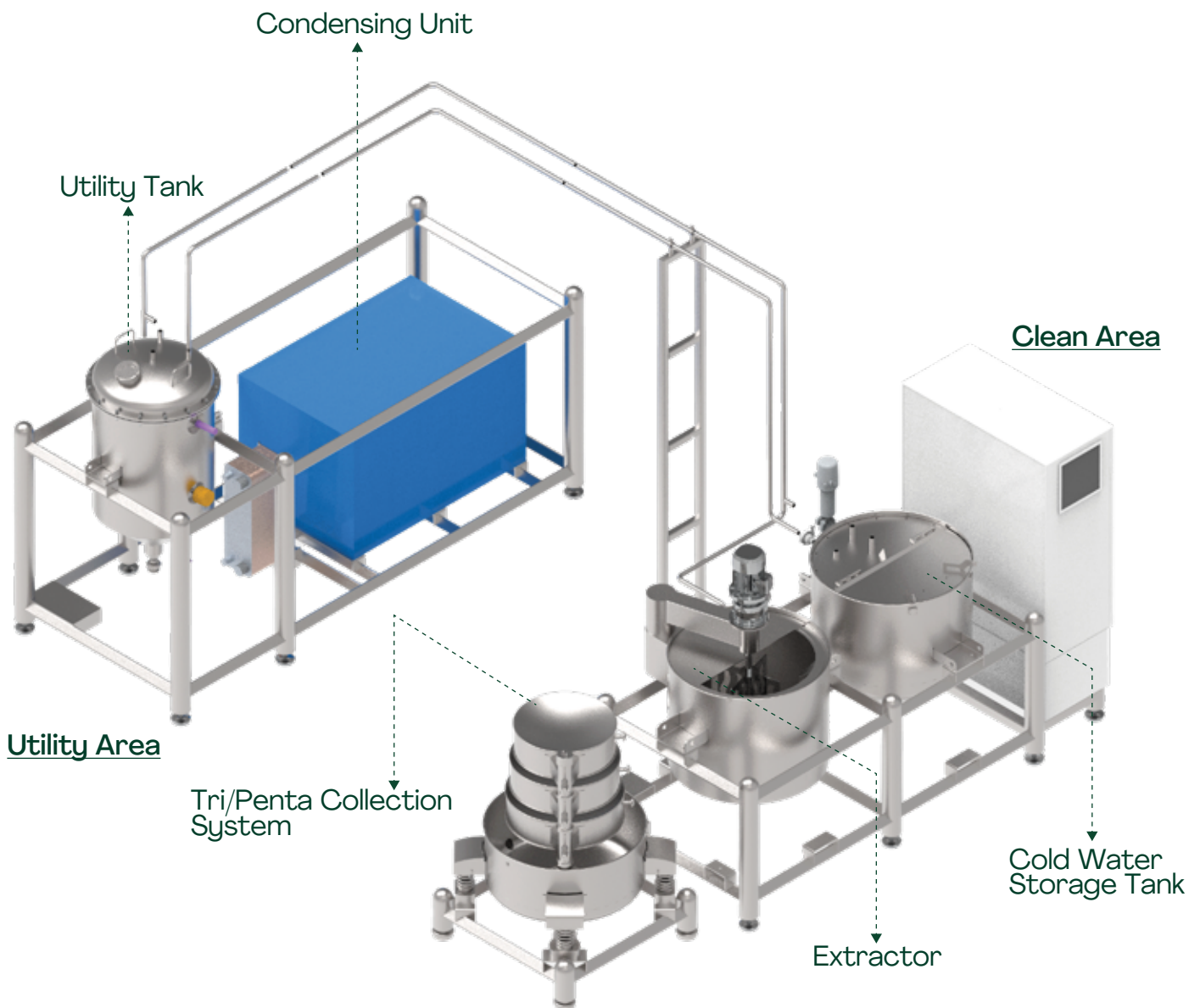


NORDEX 500 - COLD WATER EXTRACTION SYSTEM



SYSTEM OVERVIEW

TECHNICAL HIGHLIGHTS

- Power: 80 kW
- Area Foot Print (L x W x H):
8.0 m x 7.5 m x 3.5 m
- Floor Load Bearing Capacity: 10 KN/m²
- Compressed Air: 5 cfm @6 barg



Automated



Run with one operator



Ice not required



Customizable mesh size

SYSTEM FEATURES



1

Variable RPM

Enables adjustable speed with whirlpool technology



4

Multi-stage Filtration

Provides 5 or 3-stage filtration ranging from 250 microns to 40 microns



2

Temperature Consistency

Maintains temperature and control with temperature sensors and cooling coils



5

Intuitive Intelligence

User friendly touchscreen operation



3

Completely Reusable Water System

Water recirculation system that allows for multiple washes

TECHNICAL SPECIFICATIONS

Extractor (EX)

- Volume: 750 Liters
- Max Operating Pressure: Atm
- Max Operating Temperature: 40 °C
- Min Operating Temperature: 0 °C
- Type of Construction: Hollow Shell with Agitator and Insulation
- MOC (contact/non-contact): SS316/SS304
- Surface Finish – contact: Ra 1.8 (Mirror finish)
- Surface Finish – non-contact: Ra 3.2 (Glass bead finish)
- Certification: cGMP or EU GMP compliance
- Sensors: Level/Temperature at Inlet & Outlet
- Safety: Limit Switches
- Make: Cybernetik

Cold Water Tank

- Volume: 1000 Liters
- Max Operating Pressure: Atm
- Max Operating Temperature: 40 °C
- Min Operating Temperature: 0 °C
- Type of Construction: Hollow Shell with Insulation
- MOC (contact/non-contact): SS316/SS304
- Surface Finish – contact: Ra 1.8 (Mirror finish)
- Surface Finish – non-contact: Ra 3.2 (Glass bead finish)
- Certification: cGMP or EU GMP compliance
- Sensors: Level/Temperature at Inlet & Outlet
- Make: Cybernetik

Tri/Penta Collection System

- Diameter: 1000 mm
- Filtration Area: 3 m²
- 1st Stage Filtration: 250 microns
- 2nd Stage Filtration: 160 microns
- 3rd Stage Filtration: 73 microns (Customized – as per client)
- 4th Stage Filtration: 45 microns (Customized – as per client)
- 5th Stage Filtration: 25 microns
- Type of Construction: Hollow shell with sieves
- MOC (contact/non-contact): SS316/SS304
- Certification: cGMP or EU GMP compliance
- Surface Finish – contact: Ra 1.8 (Mirror finish)
- Surface Finish – non-contact: Ra 3.2 (Glass bead finish)
- Sensors: Vibration
- Make: Cybernetik

Chiller Unit (Condenser + Glycol Tank)

- Volume: 250 Liters
- Operating Pressure: Atm
- Operating Temperature: 0-2 °C
- Type of Construction: Hollow Shell With Insulation
- MOC (contact/non-contact): SS304
- Surface Finish – contact: Ra 1.8 (Mirror finish)
- Surface Finish – non-contact: Ra 3.2 (Glass bead finish)
- Certification: NA
- Sensors: RTD
- Make: Cybernetik
- Condenser: 15 TR
- Make: Danfoss/Emerson

Recipe Management/Data Logging (RE)

- Data monitoring and control: SCADA with unlimited tags
- Save Settings: Data bank for multiple settings
- Frequency drives: Rockwell

Salient Features

- Completely Automated with 1 operator
- Completely reusable water system
- 5/3 stage product collection system (Customizable)
- Continuous operation in closed loop
- cGMP or EU GMP compliance
- HMI for Manual or Automatic operation

INSTALLATION & SUPPORT

- 1 Year consumables include Seals, Fittings, Ball valves included in price

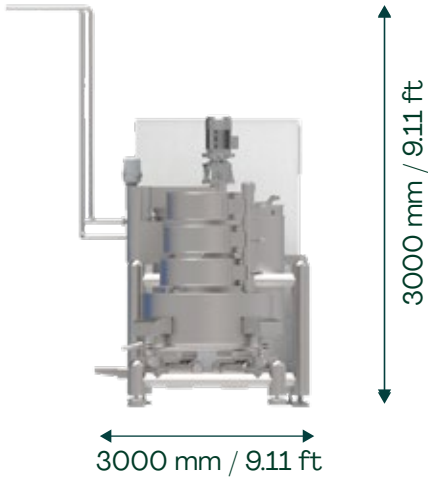
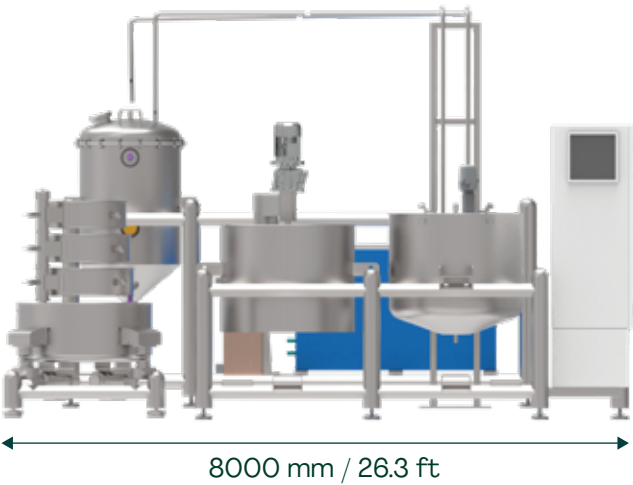
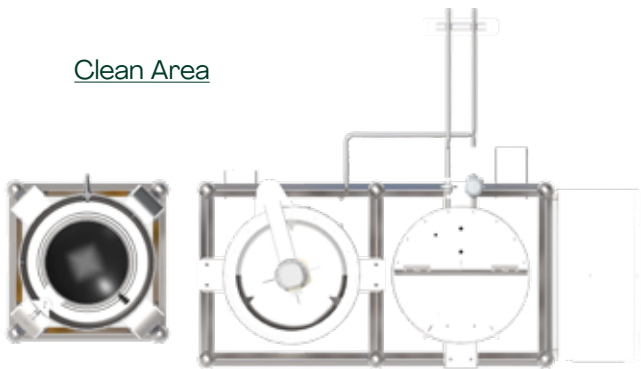
WARRANTY

- 1 Year machine warranty

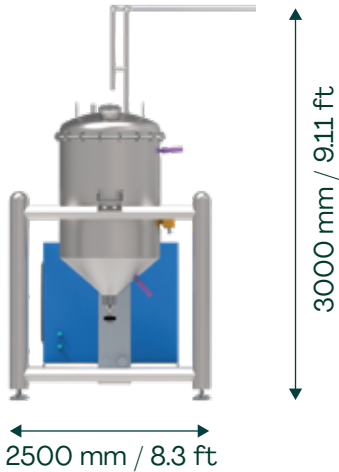
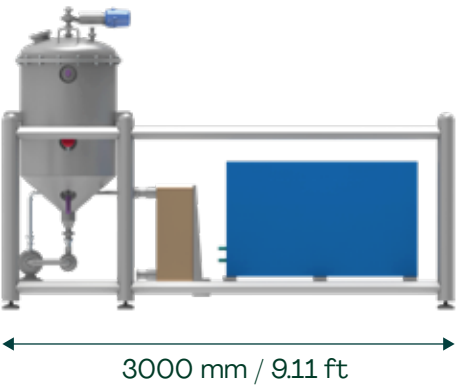
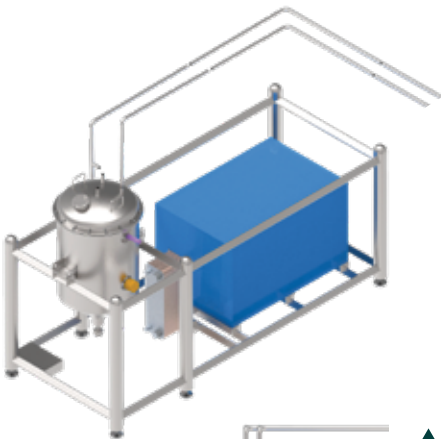
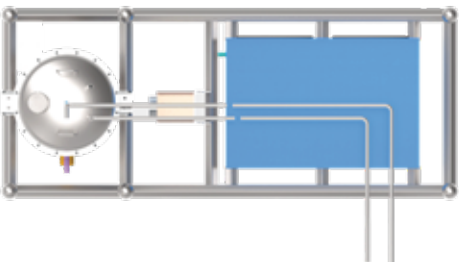
AVAILABLE CERTIFICATIONS



Clean Area



Utility Area



EXPERIENCE
EXTRACTION AT
ITS FINEST.



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



Our Global Extraction Hubs

- 1 BES Labs IN 
- 2 CIMAP IN 
- 3 CSIR SA 
- 4 World Horti Center NL 

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