



ETHANOL EXTRACTION PLATFORM

EXTRACTION, DISTILLATION & SOLVENT RECOVERY SYSTEMS

The use of ethanol as a solvent can be a cost-effective method of producing quality extracts from large volumes of biomass. Our Ethanol Extraction Platform is capable of cold and warm wash methods of extraction, steam distillation, solvent recovery and spirits distilling.¹

With best-in-class performance single module, you can process 120-160 lbs. of material per hour.²

"We've been extracting with our Eden system for years—the solution is fast, efficient, and easy to use. Performance is great. So are yields."

— Optimum Extracts CEO John W.



FEATURES & BENEFITS

With over 20 years of botanical and whole plant extraction expertise, the Eden Labs Ethanol Extraction Platform gives the user full control over process variables, reduces processing time and extracts a full spectrum of yields efficiently.

INDUSTRY-LEADING THROUGHPUT

- Process up to 74 lbs. of biomass per hour with a cold, fast rinse standard operating practice.
- Available in two models: Professional (25-gal) and High Performance (100-gal). A 500-gallon option is available for solvent recovery.³

SAFE OPERATING ENVIRONMENT

- Our extraction system has a closed-loop design and built with 316 stainless steel.
- System is 3rd party engineer reviewed with UL-listed C1D2 electronics and Type 6 process for licensed operations.⁴

VERSATILE, EASY-TO-USE SOLUTION

- Besides ethanol extraction, the platform is configurable for steam distillation and solvent recovery.
- System supports cold and warm extraction methods, along with advanced shatter-grade and Coldfinger extractions.

¹ The extractor can be used as an efficient vacuum oven for dehydration or decarboxylation of botanicals.

² With single module – double basket configuration. Yields may vary with type of extraction method used.

³ A 25-gal Professional Extraction System is available.

⁴ As defined by the State of California.

PERFORMANCE

Model ⁵	PROFESSIONAL EXTRACTION (25-GAL)	HIGH PERFORMANCE EXTRACTION (100-GAL)
Biomass capacity (lbs.) ⁶	15 to 18	65 to 80
Ethanol requirement per run (gal.)	7 to 17.5	30 to 75
Setup (min.)	15 to 30	15 to 30
Run time (min.) ⁷	30 to 90	30 to 90
Cleanup (min.)	15	15
Processing per 8-hour shift (max.)	110	590
Extraction Efficiency (%)	90 to 99	90 to 99
Terpene Capture Efficiency (%)	95 to 100	95 to 100
Ethanol Recovery Efficiency (gal. per hour)	4	20

Recovery efficiency for the 500-gal Industrial Performance Solvent Recovery System is up to 100-gal per hour.

TECHNICAL INFORMATION

100-GAL ETHANOL EXTRACTION SYSTEM

	Quantity	Dimensions (L x W x H)	Volts	AMPS	Phase	Hertz
100 Gal Extraction Vessel with Hoist	1	57" x 67" x 107"	n/a	n/a	n/a	n/a
100 Gallon Pre-Chill Tank	1	34" x 34" x 63"	n/a	n/a	n/a	n/a
Carbon Filtration System	1	21" x 19" x 52"	n/a	n/a	n/a	n/a
Ultra Low Temp Chiller ⁹	1	35" x 33" x 56"	220	26	3	50or60

100-GAL SOLVENT RECOVERY SYSTEMS

	Quantity	Dimensions (L x W x H)	Volts	AMPS	Phase	Hertz
100 Gallon Vessel	1	57" x 67" x 107"	n/a	n/a	n/a	n/a
100 Gallon Recovery Vessel	1	34" x 34" x 63"	n/a	n/a	n/a	n/a
4500W explosion-proof heater ⁸	3	Mounted on unit	240/480	30/10	3	50 or 60
Vacuum pump	1	Mounted on unit	120	4.2	1	60
Medium Temp Chiller ⁹	1	58" x 32" x 46"	220-240	28	3	50 or 60
10 Hp screw Compressor	1	56" x 25" x 58"	220-240	30	3	50 or 60

500-GAL SOLVENT RECOVERY SYSTEMS

	Quantity	Dimensions (L x W x H)	Volts	AMPS	Phase	Hertz
500 Gallon Vessel	1	58" x 96" x 106"	n/a	n/a	n/a	n/a
100 Gallon Pre-Chill Tank	1	34" x 34" x 63"	n/a	n/a	n/a	n/a
Dual 100 Gal Recovery Vessel SKid	1	71" x 34" x 71"	n/a	n/a	n/a	n/a
40,000W explosion-proof heater ⁸	2	Mounted on unit	480	49 (x2)	3	50 or 60
Vacuum pump	1	Mounted on unit	120	4.2	1	60
Medium Temp Chiller ⁹	1	120" x 50 x 92"	480	76	3	50 or 60
15 Hp screw Compressor	1	76" x 25" x 58"	480	20	3	50 or 60
Ultra Low Temp Chiller ⁹	1	35" x 33" x 56"	220	26	3	50 or 60

All electrical components are UL listed for the US and Canada.

⁵Actual times will vary in accordance with standard operating practices.

⁶Actual capacity depends on grind size and density of biomass.

⁷Run time is dependent on cold or warm wash extraction.

⁸High Performance model (100-gal) has 3 heaters and Industrial Performance Solvent Recovery upgrade (500-gal) has 2 heaters.

⁹Chiller for cold wash extraction application rated to -40 ° C.



All Systems Include Our 3-Year Warranty.

Interested in learning more?

Reach us by phone at 888.626.3271 or 206.673.2184, Monday-Friday between 9am-5pm PT, or email, info@edenlabs.com.

