

E-180

Supercritical CO₂ Extractor



DESCRIPTION

The E-180 is one of our E-series extractors, the fastest, most advanced and most powerful line of CO₂ extraction machines on the market today. The E-180 is capable of processing up to 844 pounds/day. extraktLAB's supercritical CO₂ extraction equipment can run a variety of automated extraction methods. Our E-series is designed to provide high yield in a short period of time while satisfying the traceability requirements for GMP compliance.

FEATURES

-  **Sub or Supercritical CO₂ Extractions**
-  **Automated Co-solvents & Gradients**
-  **Full Spectrum Extracts**
-  **Fully Automated Methods**
-  **UL, ASME, PED, EPR Certified Components**
-  **Scalable**
-  **GMP Compliant Software**



EXTENDED

PROCESSING POWER

- Up to 844 lbs/day
- 16 kg/cycle biomass
- 60 min/cycle @ 10% plant potency
- 90+% hemp efficiency
- 95+% marijuana efficiency
- 48 sq ft footprint
- 85 Full Load Amps (FLA)
- Optional pump for solvent or cleaning methods

PROCESS CONTROL

- Programmable methods including co-solvent, temp, and ingredients
- Automated extraction cycles
- Independent vessel control
- 0 - 5000 psi
- 0° - 100° C
- Cyclonic separation
- Data capture/reporting
- Automation sold separately

GMP COMPLIANCE

- Automated process control
- Batch, operator, parameter tracking
- FDA approved materials
- Instrument calibrations
- Clean in place
- International certifications
- Calibration/maintenance tracking

SPECIFICATIONS

ATTRIBUTE	VALUE
General Specifications	
Dimensions (w/o light mast, in)	L129 × W53 x H72
Unit Weight (lbs)	6,200
Footprint (sq ft)	48
Sound Pressure (db)	50
Electrical Specifications	
Certifications, Listed	UL 508A/CE/PED
Frequency (Hz)	50/60
Full Load Amps (amps)	85
Phase	3
Voltage (VAC)	208-230/380
Control Interface Specifications	
Flow Control	Manual or Automatic
User Interface	Touch Screen HMI Panel
Extractor Specifications	
CO ₂ Recycle Vessel (L)	20
CO ₂ Supply Inlet (psi)	750-850
Collection Vessels (L) x2	20
Extraction Vessels (L) x4	20
Operating Pressure (psi)	0 to 5,000
Operating Temperature (°C)	0° to 100°

ATTRIBUTE	VALUE
Materials	
Calibration / Maintenance	Software tracking built-in
Cleaning Methods	Supercritical CO ₂ , alcohol, non-polar solvents
Data System	Export data, diagnostics and event logging, data traceability, unlimited working level access, user traceability method, CO ₂ lot, input lot trace, UL 508A listed
Regulatory Compliance	21 CFR Part 117,211, 177 and Health Canada equivalents, P.E. stamped according to ASME DIV II VII-2, PED, CE marked, notified body Lloyd's Register. CRN
Separation Principle	Cyclonic
Wetted Materials	FDA approved, ASME 304SS and 316SS
Performance Specifications*	
Biomass Input/Cycle (kg)	10 - 16
Cycle Time (min) @ 10% potency	60
Biomass Processing / Day	384kg / 844 lbs
Efficiency – Oil Recovery	Hemp 90+% / Marijuana 95+%
	<i>*Actual Performance Results May Vary</i>
Warranty	
Duration (months)	12
Quality and Labor	Parts & workmanship

SOLD SEPARATELY:

Ethanol Co-Solvent Pump
Chiller Requirement: 5hp

Required Kits:

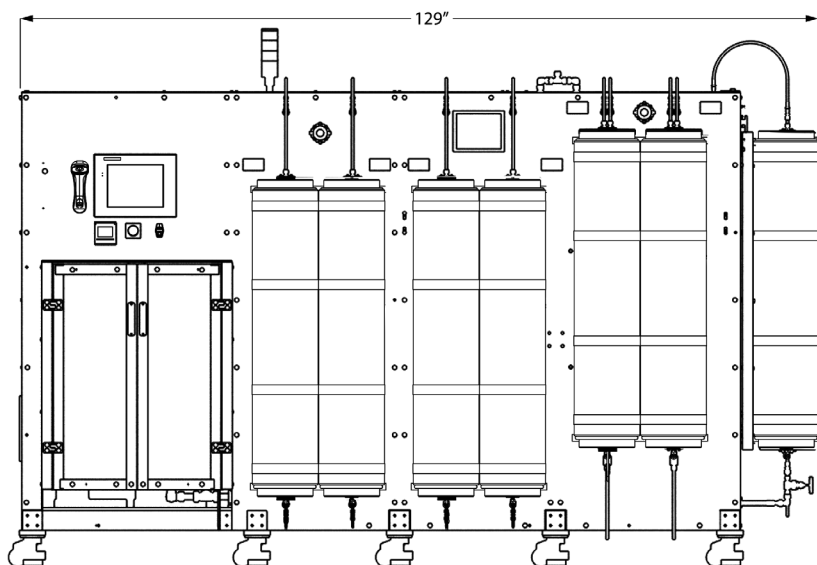
Cleaning, Startup, and Critical Spares Kits

MAY ALSO WANT TO INCLUDE, ALSO SOLD SEPARATELY:

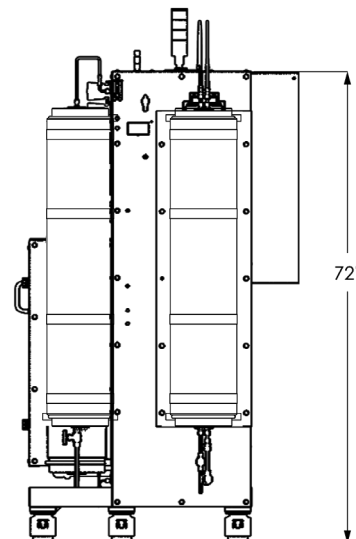
CO₂ Cage: #10-0009 (208-230V) | #10-0097 (380V)
MPCART: #10-0131 (208-230V) | #10-0155 (380V)
#80-9608 | GMP Equipment Commissioning & Training Package
#80-9606 | GMP Equipment Documentation Package
#80-9609 | Maintenance Package (12 months)

LINE DRAWINGS

FRONT VIEW



SIDE VIEW



To Order:

E-180: #10-0010 (208-230V) | #10-0147 (380V)

Chiller Kit w/connections #10-1031 (208-230/380V)

Ethanol Co-Solvent Pump, #10-1015 (208-230V) | #10-1110 (380V)

