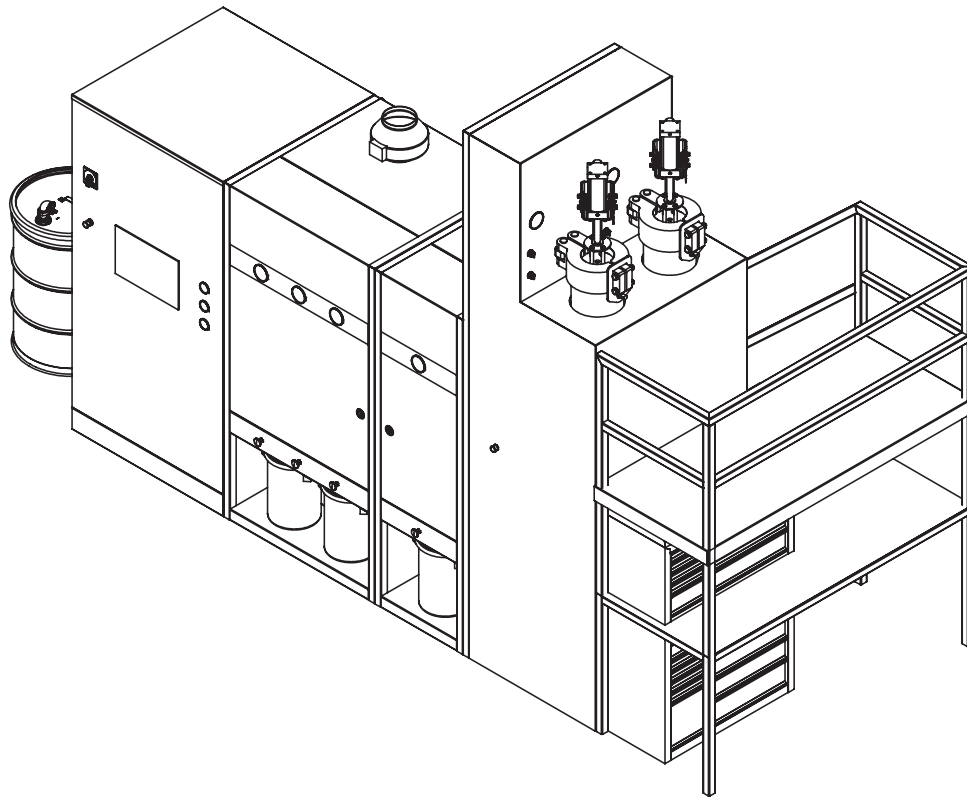




Maximum Flexibility. Future-Proof Resilience.

CO₂ & Multi-Solvent Extraction Systems



EXTRACTION

- Vessel volume: 2 x 100 L or 2 x 200 L
- Liquid CO₂ pump: Up to 22 kg/minute
- Integrated multi-solvent system
- Temperature range: 10–150°F (-12–65°C)
- Pressure range (standard configuration):
 - MAWP: 2,200 psi (151 bar)
 - Operating pressure: 500–2,000 psi (35–137 bar)
- Pressure range (high-pressure upgrade):
 - MAWP: 5,000 psi (345 bar)
 - Operating pressure: 500–4,800 psi (35–331 bar)



CO₂ RECOVERY & STORAGE

- Closed-loop CO₂
- CO₂ condenser
- CO₂ remediation filters



CONTROL PANEL

- Multiple user levels
- Real-time monitoring
- Remote diagnostics / remote connectivity[†]
- Live batch recording



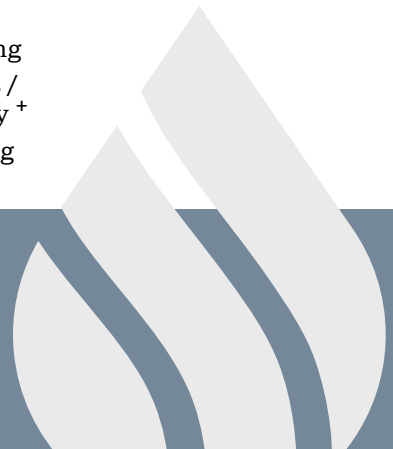
GMP

[†] Depending on configuration

⁺ Requires broadband internet connection

^Δ Defined as 100,000 cycles

[‡] Third-party system





VITALIS

Polaramax™ Legend

Legend 200 | Legend 200+ | Legend 400 | Legend 400+



SEPARATION & COLLECTION

- Continuous CO₂ purification
- Pressure range: 300–720 psi (21–50 bar)
- Temperature range: 40–100°F (4.4–38°C)
- Dedicated terpene collection
- Separate collection lines for each extraction vessel



SPECIFICATIONS

- Weight: 7,915 lbs (3,590 kg) †
- Footprint (LxWxH): 252" x 124" x 157" † (6.4m x 3.15m x 4m)



SITE REQUIREMENTS

- Pneumatic supply ISO 8573-1 [5:4:3] @120 psi 12 SCFM
- Broadband internet connection
- Power requirements (North America): 460V 3ϕ 60Hz
- Power requirements (EU, AUS, NZ): 400V 3ϕ 50Hz
- Avg. operating power: 116 kWh / Max power: 155 kWh



ADDITIONAL STANDARD FEATURES

- Automated process controls
- 304 stainless-steel contact surfaces
- Flow meter
- Ethanol wash sequence / CIP compatibility
- Integrated CO₂ (R744) refrigeration
- HMI designed to ISA 101.01
- Automated programmable start-up & shutdown
- 4 x 50 L or 100 L pre-loadable biomass cartridges †
- Pre-loaded recipes
- User-programmable recipes
- Over-the-air software updates⁺
- Remote diagnostics capability⁺
- Managed project implementation
- Professional commissioning
- On-site operator training



CONTINUOUS OPERATION

- Continuous cyclone separation †
- Dual extractor configurations



CERTIFICATIONS, COMPLIANCE & WARRANTY

- ASME/NB
- CSA-CRN
- PED-CE
- CUL/UL
- AS/NZS 1200
- EU-GMP †
- UKCA

- Lifetime warranty^Δ on all pressure vessels
- One-year warranty on all other components
- Service plans available



OPTIONAL FEATURES

- 316 stainless-steel contact surfaces
- CIP (clean-in-place) system ‡
- In-line extract filtration
- Extended service plan
- Additional biomass cartridges
- Bulk CO₂ storage solutions
- Higher pressure configurations
- Small-batch/R&D vessels available
- Managed door-to-door logistics



OPTIONAL GMP SUPPORT ASSETS

We can provide the following GMP documents: URS, FRS, requirement traceability matrix, PHA, FAT, SAT, IQ, OQ, calibration certificates, technical design documents, wetted materials traceability, software disaster recovery plan.



GMP

† Depending on configuration

+ Requires broadband internet connection

Δ Defined as 100,000 cycles

‡ Third-party system

