Maximum Flexibility. Future-Proof Resilience.

CO₂ & Multi-Solvent Extraction Systems

THROUGHPUT & PERFORMANCE

Cannabis / hemp: Up to 882 lbs (400 kg)/24 hours†‡
Liquid CO₂ pump: Up to 10 kg/minute
Integrated multi-solvent system

CONTINUOUS OPERATION

Continuous cyclone separation †
Dual extractor configurations

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

1-866-818-3529 | www.vitaliset.com | info@vitaliset.com

* Depending on SOP
† Depending on configuration
+ Requires broadband internet connection
Δ Defined as 100,000 cycles
‡ Third-party system
EXTRACTION

- Vessel volume: 20 L / 45 L combinations
- Total extraction vessel volume: Up to 90 L†
- Temperature range: 10–150ºF (-12–65ºC)
- 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)
- Ethanol wash sequence / CIP compatibility
- Integrated CO₂ (R744) refrigeration
- HMI designed to ISA 101.01
- Automated programmable start-up & shutdown
- Automated process controls
- 304 stainless-steel contact surfaces
- Flow meter
- Pre-loaded recipes
- User-programmable recipes
- Over-the-air software updates†
- Remote diagnostics capability†
- Managed project implementation
- Professional commissioning
- On-site operator training
- Continuous CO₂ purification
- Pressure range: 300–720 psi (21–50 bar)
- Temperature range: 40–100ºF (4.4–38ºC)
- Dedicated terpene collection
- Separate collection lines for each extraction vessel†

SPECIFICATIONS

- Weight: 5,400–6,140 lbs (2,450-2,785 kg)†
- Footprint (LxWxH): 230" x 48" x 95" (5.8m x 1.2m x 2.4m)
- 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)
- Temperature range: 10–150ºF (-12–65ºC)
- Pressure range (standard configuration):
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  - Operating pressure: 500–4,800 psi (35–331 bar)

SITE REQUIREMENTS

- Pneumatic supply ISO 8573-1 [5:4:3] @120 psi 12 SCFM
- Broadband internet connection
- Power requirements (North America): 460V 3 60Hz
- Power requirements (EU, AUS, NZ): 400V 3 50Hz
- Avg. operating power: 58 kWh / Max power: 77 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
- 2 x 20 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

SEPARATION & COLLECTION

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

CERTIFICATIONS, COMPLIANCE & WARRANTY

- ASME/NB
- CSA-CRN
- PED-CE
- CUL/UL
- AS/NZS 1200
- EU-GMP†
- UKCA
- Lifetime warranty 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
- Vessel expansion
- Higher pressure configurations
- 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.

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