



Advanced Extraction Systems Inc. designs, engineers and fabricates supercritical fluid CO₂ extraction systems with a specific focus in the Medical/Recreational Cannabis and Hemp Industries.

M1000

EXPANDABLE TO 4000L

MODULAR & SCALABLE DESIGN

The industry's largest SFE CO₂ system designed for Cannabis and Hemp. Unmatched and Untouchable.

DAILY PROCESSING CAPACITY
UP-TO **3,600** KG PER DAY

ADVANCING THE INDUSTRY

LEWA PUMP MADE IN GERMANY

- High flow rate diaphragm pump - 90 kg/min.
- Hermetically tight, zero-leakage pump heads.
- High operational safety and availability.
- Low maintenance over long service life.
- Diaphragm condition monitoring system.
- Low life cycle costs.

AESI IS THE CLEAR CHOICE

for reliable performance and quality driven extraction systems.



PROVEN NUMBERS THAT CANNOT BE BEATEN BY ANY OTHER MANUFACTURER.

FLOW RATE
90 kg/min
THROUGHPUT

EXTRACT
3600 kg
PER DAY

ENTIRE SYSTEM
5000 psi
PRESSURE RATED

LARGE
1000 L
VESSEL CAPACITY

M1000

3,600 KG DAILY OUTPUT

3,600 KG DAILY

EXTRACTION SYSTEM

SYSTEM

EXPANDABLE TO 4000L

VESSELS

- ASME/CRN certified.
- Pressure-rated to an industry leading 5000 psi.
- Number of Extraction Vessels: 2 X 1000L (Expandable to 4 X 1000L).
- Number of separation vessels: 3 X 100L.
- Purpose built SFE coiled tube heat exchanger.
- In-line pressure and temperature (P&T) transducers allow the control system to monitor parameters in real time within 0.1% and 2% respectively.
- Vessels equipped with a reverse flow module (RFM) that allows switching of the CO₂ flow from top to bottom and from bottom to top during an extraction run to improve performance.
- Quick closure system for loading and unloading.

FULL PROCESS CONTROL

- Allows the operator to control and track temperature, pressure, and flow rate of all vessels for maximum performance and recipe development.
- Trending & data logging cGMP software ensuring regulatory requirements.
- Complete automation ensures consistent results through our proprietary recipe development technology.
- Allows for safe and easy operation.

HMI TOUCH SCREEN CONTROL PANEL

- Siemens Pro cGMP Custom Controller.
- 19" WinCC Professional Series HMI touchscreen.
- Engineered with TIA Portal.
- Ability to data-log batches.
- Ability for recipe development.
- cGMP Compliant data-logging software.
- All-round IP65 protection.
- Remotely accessible with real-time monitoring and technical support portal.
- Wi-Fi & optional cellular network connectivity.

WARRANTY AND AFTER-SALES SUPPORT

- 1 year comprehensive warranty.
- 24/7 technical support with remote troubleshooting capability.
- Preventative Maintenance Packages offer worry-free operation for years to come.
- Recommended spare parts list ensures little to no down-time of your AESI SFE System.

SPECIFICATIONS

- Footprint - 49 ft. L x 17 ft. W
- Power Requirements - 575V / 3 Φ / 60Hz



ADVANCING THE INDUSTRY

advancedextractionsystems.com

