



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.

M50

EXPANDABLE TO 200L

MODULAR & SCALABLE DESIGN

Our most popular system. Modular 50L vessels with a very powerful pump.

DAILY PROCESSING CAPACITY
UP-TO **570** KG PER DAY

ADVANCING THE INDUSTRY

LEWA PUMP MADE IN GERMANY

- High flow rate diaphragm pump - 15-30 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
15-30 kg/min
THROUGHPUT

EXTRACT
570 kg
PER DAY

ENTIRE SYSTEM
5000 psi
PRESSURE RATED

LARGE
50 L
VESSEL CAPACITY

M50

570 KG DAILY OUTPUT

570

KG
DAILY

EXTRACTION SYSTEM

SYSTEM

EXPANDABLE TO 200L

VESSELS

- ASME/CRN certified.
- Pressure-rated to an industry leading 5000 psi.
- Number of Extraction Vessels: 2 - 50L (Expandable).
- Number of separation vessels: 3 - 25L.
- 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 - 29 ft. L x 13 ft. W
- Power Requirements - 575V / 3 Φ / 60Hz



ADVANCING THE INDUSTRY

advancedextractionsystems.com

