



**Advanced Extraction Systems Inc.** designs, engineers and fabricates supercritical fluid CO<sub>2</sub> extraction systems with a specific focus in the Medical/Recreational Cannabis and Hemp Industries.

## A30

2 X 15L FULLY AUTOMATED CO<sub>2</sub> EXTRACTION SYSTEM

— Our 2 x 15L system is perfect for smaller productions. —

DAILY PROCESSING CAPACITY UP-TO **23** KG PER DAY

ADVANCING THE INDUSTRY

## LEWA PUMP MADE IN GERMANY

- High flow rate diaphragm pump - 1 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  
**1 kg/min**  
THROUGHPUT

EXTRACT  
**23 kg**  
PER DAY

ENTIRE SYSTEM  
**5000 psi**  
PRESSURE RATED

LARGE  
**15 L**  
VESSEL CAPACITY

# A30

23 KG DAILY OUTPUT

# 23

KG  
DAILY

# SYSTEM

30L TOTAL VESSEL SIZE

## VESSELS

- ASME/CRN certified.
- Pressure-rated to an industry leading 5000 psi.
- Number of Extraction Vessels: 2 - 15L (Expandable).
- Number of separation vessels: 2 - 5L.
- 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.

## FULL PROCESS PORTABLE 2X15L EXTRACTION LAB

Meet the XLab - the perfect balance between processing capacity and size. Our 2x15L extraction system fits neatly in a retrofitted shipping container which also houses pre and post extraction solutions. Just lay a concrete pad, hook up utilities and away you go, your facility will be up and running producing one of the most valuable products of our time.

ADVANCING THE INDUSTRY

## 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 - 8 ft. L x 3 ft. W
- Power Requirements - 575V / 3  $\Phi$  / 60Hz

## EQUIPMENT SPECIFICATIONS

- CFIA Certified Wall Panels
- Lighting, Outlets etc.
- Framing & Insulation (Spray)
- Fire Suppression System
- Addition of steel man doors 36"
- Heating & Cooling with Mini Split
- XLab Dimensions 40' L x 8' H x 10' W
- Seamless Flooring
- HVAC System
- Steel Construction

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