

## **UAXONTECH** Sell Sheet CO<sub>2</sub> Extraction Plant

PO Box 353 Bloomfield, IN 47424 | Phone 812-762-4400



5000 psi 5L x 5L

### Basic Specs: Model # 5L1602FA

**System description:** Closed loop system for transport of CO<sub>2</sub> from gaseous state to liquid state to supercritical fluid state.

Height of unit: 7 feet

Approximate floor space required: 8' x 5'

Extraction vessel size: 5 Liter

Number of extraction vessels: 2

Separator vessel size: 2.5 Liter

Number of separator vessels: 2

Additional water separator: 1

Flow rate: 30 liters per hour

Cycle run time: 90 minutes

Lead time until shipment: 12 weeks

Estimated ship time: 3 to 5 weeks

Estimated time for set up: 3 days



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### **Description:**

The system consists of two extraction vessels of equal capacity which are equipped with safety closures. The salient features of this supercritical fluid extraction plant are:

- 1. System designed to meet cGMP.
- 2. Extraction vessel designed with safety closures and special seals suitable for CO<sub>2</sub> duty and quick closures for separator vessels.
- 3. Modular steel frame for mounting of extraction vessels and all peripherals including controls.
- 4. Maximum operating pressure for extractors is 350 bar (5076 psi) and maximum temperature is 55C.
- 5. Maximum operating pressure for separator #1 is 130 bar (1885 psi) and 70 bar (1015 psi) for separator #2.
- 6. Additional water separator to trap the higher notes, and the most elusive terpenes.
- 7. All contact parts are SS 316, noncontact parts are SS 306 and the supporting structure is SS 306 or MS with epoxy coat.
- 8. Easy to use SCADA system with semiautomatic and manual mode options.
- 9. System logs all data electronically for analysis.
- 10. Recycling of CO<sub>2</sub> for environmental and fiscal conservation.
- 11. Two stage safety with interlocked electronic controls and second stage mechanical safety.
- 12. High technology pressure regulation system consisting of servo controlled automated back pressure regulator.
- 13. Specially developed motorized and metering CO<sub>2</sub> pump with controls for variable pressure and flow rate control.

### **Double Production Output | Cut Operational Cost By Half** †

Cycle time per 5L vessel – **90 minutes**Daily Maintenance cost (average) – **\$10** 

CO<sub>2</sub> recovery & material reload time – **30 minutes**Daily electrical use – **100 kWh** 

Estimated processing capacity per vessel – **1600 gm (3.5 lb)** Estimated electricity cost (\$0.18 per kWh) – **\$18** 

Runs per day - **12** CO<sub>2</sub> cost (\$1 per lb) - \$36

Total estimated raw material processed per day – 19,200 gm (42 lb)

Total estimated daily operational cost – \$64

† Double production and half operational cost are as compared to a national competitor based on their published ROI data. All figures are assuming normal and standard operating conditions, differences in material, conditions or operational parameters may change output, timing and cost.