



ELARA EXTRACTOR

CAPACITY / PERFORMANCE

- Cooling: -40°F at 17kW
- Extraction: 40lbs of biomass and 35 gallons of ethanol per cycle
- Cycle Time: 20 minutes
- 98+% Cannabinoid extraction efficiency*
- 98+% Solvent recovery from biomass*
- 98+% Solvent recovery from oil*

** Depends on the quality of biomass and solvent*

FEATURES

- Fully automated and recipe driven
- Interior surface finish - 72Ra or better
- Sanitary tri-clamp process connections
- IoT Capability: cGMP compliant equipment

SPECIFICATIONS

Centrifuge

- 1300 RFC centrifugal extractor - 1800RPM
- Positive pressure food grade shaft with barrier tank onboard
- Multi-function jacketed basin
- Pneumatically operated lid and closures

Filtration, Color Remediation & Solvent Recovery

- Pre-filtration at 25 microns
- Micron-level particulate removal
- Final stage particulate filtration at 0.2 micron
- Color remediation
- Sight glass for visual verification between stages
- FFE Efficiency: 98%*
- FFE Operational Temperature: 200-210°F

** Depends on the quality of biomass and solvent*

The Elara Extractor is an industry-leading automated end-to-end, cryogenically chilled ethanol extractor capable of processing up to 120lbs/hr of biomass. It combines three traditionally separate and manually operated processing steps into one fully automated process. With a small footprint and highly integrated system, the total cost of ownership is superior to its competitors and it is designed with operators in mind.

FOOTPRINT

- Centrifuge: 55" X 32" X 40"
- Remediation & Recovery: 34" X 60" x 90"
- Chiller: 33" X 33" X 80"
- Electric Water Heater: 30" X 30" X 23"
- Water Cooling Tower: 50" X 50" X 72"
- Cold Water Pump: 20" X 8" X 12"
- Total: 120" X 60" X 96"

ANCILLARY EQUIPMENT

Chiller

- Extraction Temperature: -40°F
- 125 to 150PSI LN2 supply
- 0.5 gallon LN2 used per one gallon of ethanol at -40°F

Electric Water Heater

- 54kW heating power
- 220°F max temperature
- Transfer fluid: Water (30 GPM)

Water Cooling Tower

- Operating Temperature: 35-85°F
- Transfer Fluid: Water (30 GPM)

Hot Water Pump

- 1HP, 480V Three Phase

Cold Water Pump

- 1.5HP, 480V Three Phase

ELECTRICAL REQUIREMENTS

- 106A at 480V Three Phase