500L LPE Extraction System



PRODUCTION SERIES

Extraction Vessel

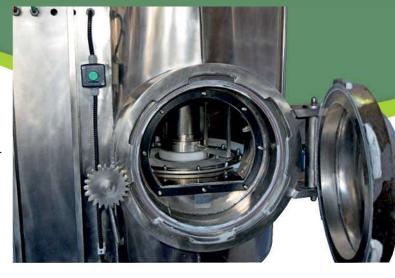
- Volume: 2x250L vessel holds up to 100-200 pound of dried and ground material
- Pressure: Maximum system operating pressure 16 bar
- Temperature: max 85°C (185°F)
- Materials: 304 stainless steel
- Vessel: interior is polished to food grade level
- Closures: ASME flange, both ends
- Sealing: PTFE flat seals
- Temperature measurement: Pt100 sensors
- Water Jacket volume: 100 Liters (22 gallons)
- Safety: spring loaded safety relief valve
- Raw material feeding: vacuum mode
- Residue removal: vacuum mode, bayonet closure
- Raw material agitation: low speed stirrer

Separator/Collection Vessel

- Separator: Jacketed separator/collection vessel
- Volume: 1 pieces per 30 Liters
- Pressure: Maximum system operating pressure
 12 bar
- **Temperature:** max 85°C (185°F)
- Materials: 304 stainless steel
- Cleaning: Manual by direct access or by cleaning by spray ball
- Safety: spring loaded safety relief valve
- Flow path: from extractor to separator is continuous diameter with no constrictions

Heat Exchanger

- Construction: Plate type and shell & tube type
- Materials: all 304 stainless steel
- Cooling/Heating: R134a refrigerant



Chiller/Receiver

- Refrigeration: heat pumping
- Temperature range: 20°C to 45°C (68°F to 113°F)
- Maximum solvent content: 1000 kg

Skid Physical Dimensions

- Skids number: 1 piece
- Height: 2,500mm
- Length: 2,500mm
- Width: 1,500 mm
- Total weight: app. 6,000 kg
- Floor mounting area: min. 70 m²
- Ceiling height: 6.0 m

Control System

- Functions: Fully automatic Programmable Logic Controller (PLC) touch screen interface with first level safety functionality and user programmable pressure, temperature and time.
- **Safety:** pressure transducers monitor system pressure and shut down system to prevent accidental over-pressurization