

500L LPE Extraction System

PRODUCTION SERIES

PURE⁵
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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



Chiller/Receiver

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

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

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

For pricing information, a demo or more information contact:

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