

10L LPE Extraction System

SPECIFICATION



Extraction Vessel

- **Volume:** 10 L vessel holds up to 2 - 3 pounds of dry material
- **Pressure:** Maximum operating pressure 16 bar
- **Temperature:** max 60°C (140°F)
- **Materials:** 304 stainless steel
- **Vessel:** interior is polished to food-grade level
- **Closures:** ASME flange, both ends
- **Sealing:** Flanges with PTFE flat seals
- **Temperature measurement:** Pt 100 sensors
- **Jacket Volume:** 10 Liters (5.13 gallons)
- **Safety:** spring-loaded safety relief valve

Solvent receiver

- **Orientation:** horizontal
- **Maximum solvent content:** 22 kg

Separator

- **Separator:** Jacketed separator
- **Volume:** 15 Liter
- **Pressure:** Maximum operating pressure 10 bar
- **Temperature:** max 60°C (140°F)
- **Materials:** 304 stainless steel
- **Sealing:** Flanges with PTFE flat seals
- **Safety:** spring-loaded safety relief valve
- **Flow path:** continuous/batch gravitational path

Heat Exchanger

- **Construction:** refrigeration unit
- **Materials:** all 304 stainless steel
- **Cooling/Heating:** R134a refrigerant

Chiller/Receiver

- **Refrigeration:** heat pumping
- **Temperature range:** -10°C to 50°C (14°F to 158°F)
- **Maximum solvent content:** 2 kg



Pumps

- **Flow Rate (max):** 13.9 L/min
- **System Pressure (max):** 103 bar
- **Temperature Range:** -46 to 177°C

Electrical

- **Voltage:** 230 V
- **Power:** 1 kW
- **Plug:** 4-way 50A outlet

Physical Dimensions

- **Height:** 1,250 mm
- **Length:** 920 mm
- **Width:** 780 mm
- **Weight:** Apr. 250 kg

Control System

- **Functions:** Fully automatic Programmable Logic Controller (PLC) touchscreen 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/safety valves

For pricing information, a demo, or more information contact: