

# 20L LPE Extraction System

LAB SERIES

**PURE<sup>5</sup>**  
Powered by  **COMERG**



## Extraction Vessel

- **Volume:** 2x10 L vessel holds up to 4 pound of dry material
- **Pressure:** Maximum pressure 16 bar
- **Temperature:** max 60C (140F)
- **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:** Pt100 sensors
- **Jacket volume:** 10 Liters (5.13 gallon)
- **Safety:** spring loaded safety relief valve

## Solvent receiver

- **Orientation:** horizontal
- **Pressure:** Maximum pressure 10 bar
- **Maximum solvent content:** 32 kg

## Separator/Collection Vessel

- **Separator:** Jacketed separator/collection vessel
- **Volume:** 10 Liter
- **Pressure:** Maximum pressure 10 bar
- **Temperature:** max 60C (140F)
- **Materials:** 304 stainless steel
- **Closures:** FDA sanitary style bolted
- **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:** -10C to 50C (14F to 158F)
- **Maximum refrigerant content:** 2 kg

## Physical Dimensions

- **Height:** 1550 mm
- **Length:** 1420 mm
- **Width:** 780 mm
- **Weight:** 550 kg

## Electrical

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

## 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/safety valves.

For pricing information, a demo or more information contact:

Email: [info@comerg.com](mailto:info@comerg.com)

Tel: 602-992-0744

Web: [www.comerg.com](http://www.comerg.com)