

# EtOH Extraction System

## SPECIFICATION



### Extraction Vessel

- **Construction:** Feeding, Extraction and Recovery screw
- **Pressure:** Maximum operating pressure 1.6 bar
- **Temperature:** min -40C (-40F)
- **Materials:** 304 stainless steel
- **Vessel:** interior is polished to food grade level
- **Closures:** ASME quick disconnect
- **Sealing:** PTFE flat seals
- **Temperature measurement:** Pt100 sensors
- **Jacket volume:** 1,500 Liters (396 gallons)
- **Safety:** safety relief valve

### Solvent Recovery Column

- **Orientation:** vertical
- **Pressure:** Maximum pressure 1 bar
- **Recovery Flow:** 800kg/h

### Evaporator/Condenser

- **Separator:** Jacketed separator/collection vessel
- **Volume:** 2 x 500 Liter
- **Pressure:** Maximum pressure 1 bar
- **Temperature:** max 90C (194F)
- **Materials:** 304 stainless steel
- **Closures:** FDA sanitary style bolted
- **Sealing:** PTFE flat seals
- **Safety:** safety relief valve
- **Flow path:** 28 m3/h

### Heat Exchanger

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

### Chiller/Receiver

- **Refrigeration:** heat pumping
- **Temperature range:** -40C to -35C (-40F to -31F)
- **Maximum solvent content:** 800 kg/h

### Physical Dimensions

- **Height:** 3,550 mm
- **Length:** 19,500 mm
- **Width:** 7,900 mm
- **Weight:** app 15,500 kg

### Electrical

- **Voltage:** 3 phase 480V
- **Power:** 500 kW
- **Plug:** split wires

### Control System

- **Functions:** Fully automatic Programmable Logic Controller (PLC) touch screen interface with first level safety functionality and user programmable pressure, temperature and time.



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