

50L Falling Film Distillation

SYSTEM SPECIFICATION

Technical Data

- **Evaporation rate:** 50L/H
- **Heating area:** 3 m²
- **Coiling area:** 5 m²
- **Feeding pump:** 0.55 kW
- **Discharge pump (crude oil):** 0.55 kW
- **Discharge pump (ethanol):** 0.55 kW
- **Vacuum pump:** 0.81 kW
- **Total power:** 2.46 kW
- **Voltage:** 220V/60Hz

Steam Generator

- **Steam Rate:** 50 kg/h
- **Temperature:** max 225°C (437°F)
- **Materials:** 304 stainless steel
- **Vessel:** interior is polished to food grade level
- **Temperature measurement:** Pt100 sensors

Cooling Tower

- **Cooling Rate:** 6 T/h
- **Pressure:** No pressure
- **Temperature:** -20°C (-4°F)
- **Materials:** 304 stainless steel

Storage and Pumps

- **Storage Volume:** 100 L
- **Material:** SS304
- **Handing capacity:** 1 T/h
- **Pump Power:** 0.37 kW
- **Pump height:** 10 m
- **Voltage:** 220V/60Hz, 1p
- **Normal pressure**

Recovery Tower

- **Construction:** Cooling and heating circulator
- **Range:** -20 to 150 °C
- **Rate:** 50 L/min



Physical Dimensions

- **Height:** 3 000 mm
- **Length:** 2 000 mm
- **Width:** 1 200 mm
- **Total weight:** app. 2, 210 lb
- **Floor mounting area:** min. 20 m²
- **Ceiling height:** 3.5 m

Control System

- **Functions:** Programmable Logic Controller (PLC) with first level safety functionality and user programmable temperature.

For pricing information, a demo or more information contact: