

# OBERON EXTRACTOR

## FOOTPRINT(L x W x H)

Skid: 57" X 64" X 76"  
 Chiller 1: 50" X 86" X 90"  
 Chiller 2: 34" X 85" X 72"  
 Control Panel: 20" X 9" X 24"  
 Water Pump Skid: 26" X 20" X 13"  
 Water Heater: 21" X 13" x 20"

## COOLING

Chiller 1: 12.3kW @ -30°F  
 Chiller 2: 7.2kW @ -75°F

Jacketed and insulated reactor and solvent tanks

## AUTOMATED CONTROLS

(16) pneumatically actuated valves  
 (6) temperature sensors  
 (4) pressure transducers  
 (10) liquid level switches

Pressure Safety Devices:  
 (7) ASME Pressure Relief Valves,  
 Oil-Free Reciprocating Gas Compressor  
 Hot Water Circulation: 15kW @ 20GPM

## DRY WEIGHT

Skid: 1,780lbs  
 Chillers 1: 2,000lbs  
 Chiller 2: 1,350lbs  
 Control Panel: 42lbs  
 Water Pump Skid: 41lbs  
 Water Heater: 85lbs (dry)  
 Solvent Pump: 150lbs  
 Total: 5,448lbs



## ELECTRICAL SUPPLY

Control Panel	120V	Single Phase	2A
Hot Water Pump	480V	3ph	2A
Water Heater	480V	3ph	18A
Solvent Pump	480V	3ph	9A
Chiller 1	480V	3ph	39A
Chiller 2	480V	3ph	20A

**HEATING:** Recirculating Water Heater 15kW

**PROCESS TEMPERATURE RANGE:** -65°F to 0°F

**PRESSURE RATING:** 250 PSIG

**REACTOR CAPACITY:** 75L liquid

70L plant feedstock

**CYCLE TIME:** 50 minutes (recipe dependent)

**THROUGHPUT:** 30 lbs dry feed stock, 45 lbs wet

**SOLVENT:** 100% Butane, 100% Propane (or any mix of the two)

**INTERFACE:** 13" Touchscreen HMI

**SOLVENT CAPACITY:** 220lbs

**DISTILLATION COLUMN CAPACITY:** 100L

**VESSEL CERTIFICATION:** ASME BPVC Sect. VIII U, UM

**ELECTRICAL CERTIFICATIONS:** Control Panel: UL508A

Skid Assy: Class1 Division 1, FM/ UL Intrinsic Safety