

# oberon

E X T R A C T O R

Oberon is an enterprise-grade, fully automated, closed-loop hydrocarbon extractor designed for large-scale operations. It sets the industry standard for 24-hour volume, processing up to 40 lbs of plant material per hour, enabling producers to conduct more efficient back-to-back cycles with only 90 seconds of downtime in between runs.

## AUTOMATED CONTROLS

- (16) Pneumatically actuated valves
- (6) Temperature sensors
- (4) Pressure transducers
- (10) Liquid level switches
- Pressure Safety Devices: (7) ASME Pressure Relief Valves
- Solvent Pump: Electric Diaphragm (C1D1)

## SPECIFICATIONS

- Heating: Recirculating Water Heater 15kW
- Process Temperature Range: -65°F to 0°F
- Pressure Rating: 250PSIG
- Reactor Capacity: 75L liquid and 70L plant feedstock
- Cycle Time: 50 minutes (recipe dependent)
- Throughput: 30lbs dry feedstock, 40lbs wet
- Solvent: 100% Butane, 100% Propane, or mix
- Interface: 15.6" Touchscreen HMI
- Solvent Capacity: 220lbs
- Distillation Column Capacity: 100L

## SAFETY CERTIFICATIONS

- Vessel Certification: ASME BPVC Sect. VIII U, UM
- Control Panel: UL508A, UL698
- Sensors: Class 1 Division 1, FM/UL Intrinsic Safety
- Auxiliary Equipment: UL, ETL, ASME

## COOLING

- Chiller 1: 12.3kW @ -30°F
- Chiller 2: 7.2kW @ -75°F
- Jacketed and insulated reactor and solvent tanks

## ELECTRICAL SUPPLY

- Control Panel: 120V Single Phase 2A
- Hot Water Pump: 480V Three Phase 2A
- Water Heater: 480V Three Phase 18A
- Solvent Pump: 480V Three Phase 9A
- Chiller 1: 480V Three Phase 39A
- Chiller 2: 480V Three Phase 20A
- Air Compressor: 120V Single Phase 7A
- Vacuum Pump: 240V Single Phase 8A
- Cooling Tower Circulation Pump: 240V Three Phase 6A

## FOOTPRINT

- Skid: 57" X 64" X 76"
- Control Panel: 20" X 9" X 24"
- Water Pump Skid: 26" X 20" X 13"
- Water Heater: 21" X 13" X 20"
- Chiller 1: 50" X 86" X 90"
- Chiller 2: 34" X 85" X 72"
- Air Compressor: 17" x 16" x 14"
- Vacuum Pump: 23" X 8" X 12"
- Cooling Tower Circulation Pump: 20"x10"x12"

## DRY WEIGHT

- Skid: 1780lbs
- Control Panel: 42lbs
- Water Pump Skid: 41lbs
- Water Heater: 85lbs
- Chiller 1: 2000lbs
- Chiller 2: 1350lbs
- Air Compressor: 64lbs
- Vacuum Pump: 82lbs
- Solvent Pump: 150lbs
- Cooling Tower Circulation Pump: 68lbs
- Total: 5662lbs