

# IO EXTRACTOR

The IO is a fully-automated BHO extraction system capable of processing up to 20 lbs of fresh-frozen material every 40 minutes. Its patented dual passive/active solvent recovery technique minimizes cycle times, and built-in automated process controls eliminate manual error. Effortlessly produce consistent, top-shelf extracts run after run.

## AUTOMATED CONTROLS

- (18) Pneumatically actuated valves
- (6) Temperature sensors
- (4) Pressure transducers
- (10) Liquid-level switches
- Pressure Safety Devices: (6) ASME Pressure Relief Valves
- Solvent Pump: Electric Diaphragm (C1D1)
- Vacuum Pump: 2.0CFM Peak, 29.92" Hg

## SPECIFICATIONS

- Heating: Recirculating Water Heater 9kW
- Process Temperature Range: —65°F to 0°F
- Pressure Rating: 250PSIG
- Reactor Capacity: 32L liquid and 28L plant feedstock
- Cured: 15 lbs/55 min run  
25 runs/day = 375 lbs/day
- Fresh Frozen: 20 lbs/40 min run  
35 runs/day = 700 lbs/day
- Solvent: 100% Butane, 100% Propane, or mix
- Interface: 15.6" Touchscreen HMI
- Distillation Column Capacity: 70L

## ELECTRICAL SUPPLY

- Control Panel: 120V Single Phase 2A
- Hot Water Pump: 120V Single Phase 4.5A
- Water Heater: 240V Single Phase 23A
- Solvent Pump: 240V Three Phase 3.3A
- Chiller 1: 240V Three Phase 50A
- Chiller 2: 240V Three Phase 60A
- Air Compressor: 120V Single Phase 7A
- Vacuum Pump: 240V Single Phase 8A
- Outdoor Cooling Tower: 240V Single Phase 5A
- Cooling Tower Circulation Pump: 240V Three Phase 6A

## SAFETY CERTIFICATIONS

- Pressure Vessels: ASME BPVC Sect. VIII U, UM
- Control Panel: UL508A, UL698
- Extraction Skid: Class 1 Division 1, FM/UL Intrinsic Safety
- CRN for all Canadian Provinces

## FOOTPRINT

- Skid: 50" X 56" X 70"
- Control Panel: 20" X 9" X 24"
- Water Pump Skid: 23" X 17" X 11"
- Water Heater: 22" X 22" X 59"
- Chillers (2): 39.25" X 37.25" X 68.5"
- Air Compressor: 17" x 16" x 14"
- Vacuum Pump: 23" X 8" X 12"
- Cooling Tower Pump: 20" X 10" X 12"
- Outdoor Cooling Tower: 54.375" X 54.375" X 63"

## DRY WEIGHT

- Skid: 1065 lbs
- Control Panel: 42 lbs
- Water Pump Skid: 35 lbs
- Water Heater: 121 lbs
- Chiller 1: 1036 lbs
- Chiller 2: 838 lbs
- Air Compressor: 64 lbs
- Vacuum Pump: 82 lbs
- Solvent Pump: 150 lbs
- Outdoor Cooling Tower: 190 lbs
- Cooling Tower Circulation Pump: 68 lbs
- Total: 3691 lbs