

iO EXTRACTOR

FOOTPRINT $(L \times W \times H)$

Skid: 50" x 56" x 70"
Chillers (2): 39.25" x 37.25" x 68.5"
Control Box: 20" x 9" x 24"
Water Pump Skid: 23" x 17" x 11"
Water Heater: 22" x 22" x 59"
Outdoor Cooling Tower: 54.375" x 54.375" x 63"
DRY WEIGHT

Skid: 1065lbs
Chillers 1: 1036lbs
Chillers 2: 838lbs
Control Box: 42 lbs
Water Pump Skid: 35 lbs
Water Heater: 121 lbs
Outdoor Cooling Tower: 190 lbs
Total: 3322 lbs

COOLING

(2) PID controlled recirculating chillers (-80°C)				
-40°C	12kW			
-60°C	10kW			
–75°C	5kW			
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: (6) ASME Pressure Relief Valves
Solvent Pump: Electric Diaphragm (C1D1)
Vacuum Pump: 2.0CFM peak, 29.92in Hg
Hot Water Circulation: 1GPM at 140°F, 9kW

ELECTRICAL SUPPLY

Control Panel	120V	Single Phase	2A
Hot Water Pump	120V	Single Phase	4.5A
Water Cooling Tower	240V	Single Phase	5A
Water Heater	240V	Single Phase	23A
Solvent Pump	240V	Three Phase	3.3A
Chiller 2	240V	Three Phase	50A
Chiller 1	240V	Three Phase	60A



HEATING: Recirculating Water Heater 9kW PROCESS TEMPERATURE RANGE: -65°C to 0°C PRESSURE RATING: 250PSIG REACTOR CAPACITY: 32L liquid (43L total) 28L plant feedstock CYCLE TIME: 50 minutes (recipe dependent) THROUGHPUT: 18 lbs dry feed stock, 25 lbs wet



SOLVENT: 100% Butane 100% Propane

INTERFACE: 10.1" Touchscreen monitor

DISTILLATION COLUMN CAPACITY: 60L liquid (70L total)

VESSEL CERTIFICATION: ASME BPVC Sect. VIII U, UM

ELECTRICAL

CERTIFICATIONS: Control Box: UL508A Skid Assy: Class 1 Division 1, FM/UL Intrinsic Safety