


— BIODIESEL LOGIC INC —
BDL-2000+MPS

Each BDL-2000+ Modular Processor System "**Patent Pending**". Includes

- Three carbon steel WVO pre-filter canister with 400-micron polypropylene felt bag filters.
- One 360 gallon cone bottom 10 ga 304L stainless steel pretreat/phase one reaction vessel, with removable man-way cover for routine maintenance and cleaning of reactor. The reactor is equipped with integral sight gauge for visual indication of tank liquid level. The reactor vessel is insulated with 1/4" high density ceramic fiber insulation and wrapped with a hammered finish aluminum cover.
- One internal 220VAC, 1 Ph 9000 Watt, 1 Ph 316L stainless steel alloy heater assembly.
- One carbon steel WVO pre-filter canister with 200-micron polypropylene felt bag filter.
- Three 360 gallon cone bottom 10 ga 304L stainless steel phase two reaction vessels, with removable man-way covers for routine maintenance and cleaning of reactors. The reactors are equipped with integral sight gauges for visual indication of tank liquid levels. The reactor vessels are insulated with 1/4" high density ceramic fiber insulation and wrapped with a hammered finish aluminum covers.
- Three internal 220VAC, 1 Ph 9000 Watt, 1 Ph 316L stainless steel alloy heater assembly's.
- One 360 gallon cone bottom 10 ga 304L stainless steel phase three reaction vessel, with removable man-way cover for routine maintenance and cleaning of reactor. The reactor is equipped with integral sight gauge for visual indication of tank liquid level. The reactor vessel is insulated with 1/4" high density ceramic fiber insulation and wrapped with a hammered finish aluminum cover.
- One internal 220VAC, 1 Ph 9000 Watt, 1 Ph 316L stainless steel alloy heater assembly.
- One 300 gallon carbon steel holding/storage tank, equipped with integral sight gauge for visual indication of tank liquid level, the tank is painted with one coat of high particulate primer and two coats of polyurethane enamel paint.
- Four integrated schedule 10 TIG welded carbon steel dry wash cells, equipped with 150 lb class access flanges for filling the cells and removal of spent media. The cells are sized to have 4 times the capacity of the dry wash media provided with the unit on delivery to allow for normal expansion of the media material over its usable life-span.
- One integrated schedule 10 TIG welded carbon steel dry wash polishing cell, equipped with 150 lb class access flanges for filling the cell and removal of spent media. The cell is sized to have 4 times the capacity of the dry wash media provided with the unit on delivery to allow for normal expansion of the media material over its usable life-span.
- One carbon steel final filter canister with 5-micron polypropylene felt bag filter.

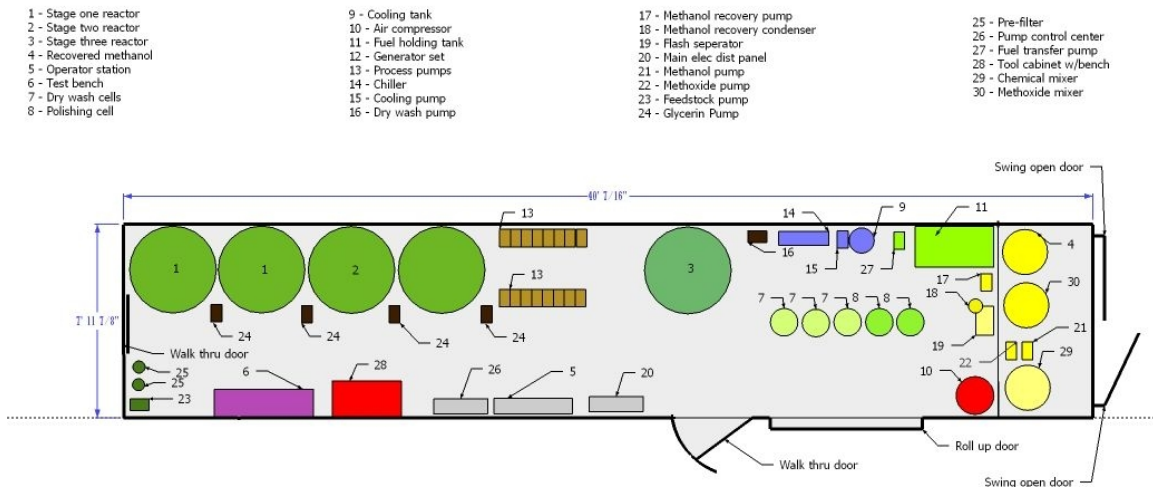
- Two 80 gallon HDPE methyl/oxide mixing tanks equipped with a 3/16" 304L stainless steel top with two mounted 220VAC, ½ hp, 1 Ph, TEFC high speed methyl/oxide prop mixers with stainless steel shaft and two SS 4" 3-blade props.
- One 80 gallon HDPE pretreatment chemical mixing tank equipped with a 3/16" 304L stainless steel top with one mounted 220VAC, ½ hp, 1 Ph, TEFC high speed methyl/oxide prop mixer with stainless steel shaft and two SS 4" 3-blade props.
- One pneumatic methanol transfer pump.
- Two magnetic drive 110VAC methyl/oxide injection pump.
- One magnetic drive 110VAC pretreatment chemical injection pump.
- Four 220VAC, ½ hp, 1 Ph, TEFC mixing pump.
- Five 220VAC, ½ hp, 1 Ph, TEFC glycerin removal pump.
- Four 220VAC, ½ hp, 1 Ph, TEFC oil transfer pump.
- One 220VAC, ½ hp, 1 Ph, TEFC dry wash pump.
- One 220VAC, ½ hp, 1 Ph, TEFC fuel transfer pump.
- One 220VAC, 10,000 Watt, 1 Ph SS alloy flash separator/heater assembly.
- One 304L methanol vapor recovery column/pot.
- One chilled water cooled methanol recovery condenser
- One water chiller
- All piping exposed internally to oil or biodiesel is TIG welded carbon steel piping with the exception of valves, access fittings and pumps.
- All piping exposed internally to methyl/oxide is either FEP, PTFE or TYGON high temperature tubing with the exception of valves, access fittings and pumps.
- Five solid state low liquid level controllers specifically designed for direct immersion in oil.
- One optical flow safety switch for the methanol recovery flash separator.
- Four optical pump level control switch's for the oil transfer cycles.
- One optical pump level control switch for the dry wash cycle.
- Two optical pump level control switch for the fuel transfer cycle.
- One NEMA 4/12 control panel, the control panel features digital temperature controllers with illuminated oil-tight push buttons for each process stage.
- One NEMA 4/12 pump control center, the control panel features digital controllers with illuminated oil-tight push buttons for each enable/disable stage.
- One NEMA 4/12 main electric distribution panel.
- All component/device wiring is enclosed in liquid tight flexible conduit or rigid EMT conduit
- Five spring loaded 1.5 psig vacuum breakers.
- Five spring loaded 1.5 psig vent valves.
- All components of the modular processor system are mounted and piped in a 8 ft X 40 ft steel HC container w/steel floor complete with lighting, insulation, small test lab bench, work bench w/maintenance and operational tool kit, air compressor and locking doors.
- The Module is painted with one coat of high particulate primer and two coats of polyurethane enamel paint.

- The modular processor system comes pre-charged with an initial charge of dry wash media to process a minimum of 80,000 gallon of biodiesel before recharging is necessary. The unit is accompanied with MSDS for the dry wash media.
- Step-by-step directions for general operation are shipped with the unit.
- Biodiesel Logic Inc provides full documentation of factory operational testing and also provides two full days of operational training at our factory for the owners operation personell prior to shipping.

- **Dimensions:** 40'L x 8'W x 9.5'H
- **Weight:** aprox 25000 Lbs. (empty)
- **Capacity:** 2 gallons per minute
- **Electrical:** 110/220 VAC, 1 Ph, 60 Hz, 200Amp Circuit

The BDL-550 Modular Processing system does not include feed-stock storage tanks, methanol storage tanks, glycerin by-product storage tanks or finished fuel storage tanks; however flanged inlet and outlet connections are provided in recessed access panels. Optional diesel powered generator sets to make package stand alone can be ordered and factory installed.

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