


— BIODIESEL LOGIC INC —
BDL-55-PPSX

Each BDL-55 Packaged Processor System "Patent Pending". Includes

- One size 3 carbon steel WVO pre-filter canister with a 400 micron polypropylene felt bag filter.
- One 84 gallon cone bottom 14 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 2250 Watt, 1 Ph 316L stainless steel alloy heater assembly.
- One size 3 carbon steel WVO pre-filter canister with a 200 micron polypropylene felt bag filter.
- One 84 gallon cone bottom 14 ga 304L stainless steel phase two 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 2250 Watt, 1 Ph 316L stainless steel alloy heater assembly.
- One 84 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.
- One integrated schedule 10 TIG welded carbon steel dry wash cell, equipped with 150 lb class access flanges for filling the cells 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 size 3 carbon steel final filter canister with a 5 micron polypropylene felt bag filter.
- One 15 gallon HDPE methyl/oxide mixing tank equipped with a 3/16" 304L stainless steel top with one mounted 220VAC, 1/3 hp, 1 Ph, TEFC high speed methyl/oxide prop mixer with stainless steel shaft and one SS 4" 3-blade prop.
- One pneumatic methanol/ methyl/oxide transfer pump.
- Two 220VAC, 1/2 hp, 1 Ph, TEFC mixing pumps
- Two 220VAC, 1/2 hp, 1 Ph, TEFC glycerin removal pumps
- One 220VAC, 1/2 hp, 1 Ph, TEFC dry wash pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC oil transfer pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC fuel transfer pump.
- One 220VAC, 2250 Watt, 1 Ph SS alloy flash separator/heater assembly.
- One 304L methanol vapor recovery column/pot.

- One water cooled methanol recovery condenser,
- All piping exposed internally to oil or biodiesel is 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.
- Two solid state low liquid level controllers specifically designed for direct immersion in oil.
- One optical flow safety switch for the methanol recovery flash separator.
- One optical pump level control switch for the transfer cycle.
- One optical pump level control switch for the dry wash cycle.
- One NEMA 4/12 control panel, the control panel features digital temperature controllers with illuminated oil-tight push buttons for each process stage.
- All component/device wiring is enclosed in liquid tight flexible conduit with the exception of pump motors designed to use SVO cord.
- Two spring loaded 1.5 psig vacuum breakers.
- Two spring loaded 1.5 psig vent valves.
- All components of the packaged processor system are mounted on a MIG welded heavy duty steel stand consisting of a base constructed from 6CX8 channel on edge with four 1" X ¼" square tubing vertical supports to a top 1" X ¼" frame with lifting lugs capable of supporting 2000 lbs combined weight. The stand is painted with one coat of high particulate primer and two coats of polyurethane enamel paint.
- The packaged processor system comes pre-charged with 88 lb Amberlyte BD10 Dry wash media to process a minimum of 10,000 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.

Optional cold weather kits can also be installed to help optimize production during the cold winter months for an additional fee of \$1,500.00 this option is recommended for all units in the northern half of the continental United States.

- **Dimensions:** 98"w x 26"d x 84"h
- **Weight:** aprox 1300 Lbs. (empty)
- **Capacity:** 55 gallons @ 8 hrs
- **Electrical:** 110/220 VAC, 1 Ph, 60 Hz, 30Amp Circuit