


— BIODIESEL LOGIC INC —
BDL-275-PPS

Each BDL-275 Packaged Processor System "Patent Pending". Includes

- One size 4 carbon steel WVO pre-filter canister with 400 micron polypropylene felt bag filter.
- One 360 gallon cone bottom 10 ga 304L stainless steel 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 290 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.
- Three 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 size 4 carbon steel final filter canister with 5 micron polypropylene felt bag filter.
- One 80 gallon HDPE methyl/oxide mixing tank equipped with a 3/16" 304L stainless steel top with one mounted 220VAC, 1/2 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.
- One magnetic drive 110VAC methyl/oxide injection pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC mixing pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC glycerin removal pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC dry wash pump.
- One 220VAC, 1/2 hp, 1 Ph, TEFC fuel transfer pump.
- One 220VAC, 7200 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 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.

- One solid state low liquid level controller 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 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.
- One spring loaded 1.5 psig vacuum breaker.
- One 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 6CX13 channel on edge with six 1 ½" X ¼" square tubing vertical supports to a top 1 ½"X ¼" frame with lifting lugs capable of supporting 5000 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 352 lb Amberlyte BD10 Dry wash media to process a minimum of 40,000 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.

Although the BDL-275-PPS systems do stand on their own; if the user wishes to obtain faster and more effecient production we suggest that the user also purchase a companion pretreatment tank BDL-55-PCT. A optional PLC driven 4.5 inch color touch screen with visual operating aids and instructions is available for an additional fee of \$2,000.00. Optional cold weather kits can also be installed to help optimize production during the cold winter months for an additional fee of \$2,100.00 this option is recommended for all units in the northern half of the continental United States.

- **Dimensions:** 120"w x 48"d x 114"h
- **Weight:** aprox 4600 Lbs. (empty)
- **Capacity:** 275 gallons @ 8 hrs
- **Electrical:** 110/220 VAC, 1 Ph, 60 Hz, 50Amp Circuit