



GloCal Network Corporation

Biodiesel Processor

Features (subject to modifications) :

Capacity	200 + 200 (53 + 53 US gal.) liters of source oil per 24 hours (optional scalability), produces a minimum of 160 + 160 liters (2 x 42 US gal.) of Biodiesel and about 40 + 40 liters (2 x 11 US gal.) of Glycerol
Washing	Double effect Water Wash with bubble wash, automatic stop function. Requires 3 bar (43.5 psi) water pressure, max. 6 bar (87 psi), recommended water temperature approximately 40°C (104°F)
Pre-Mixing	Hand pump operated, re-circulating, totally closed system mixing system for through mixing.
Methanol recovery	Vacuum operated methanol recovery system
Closed system	Totally closed system with ventilation valve and single tube
Circulation pump	Self priming electric pump for all liquid circulation, 0.75 kW
Vacuum pump	Dual action pump, 0.2 kW
Tank heaters	2 x 2.5 kW, 1 x 1 kW
Glycerol collection	Vacuum operated collection system collects also methanol
Tank	Stainless steel, 3.5 bar (50.8 psi) and high vacuum tolerant, with inspection glasses
System Cleaning	Vacuum operated flushing system, all valves can be disassembled
Filtering	Source oil (input) filter 100 microns
Optional Filters	For Ready Biodiesel (output): standard filters 2 x 20 microns, 1 Pall full filter, "Coalescer" Water Drier.
Dry weight	Approximately 300 kg (660 lb.) without optional filtering system
Dimensions	Width 170 cm (67"), length 230 cm (91"), height 228 cm (90")
Raw material / feedstock	The recipe works with all kinds of vegetable oils. Some animal fats like fish oil can be used with the processor, but they require testing for correct recipe.
Frame	Tubular steel beams with 6 adjustable feet, (lockable wheels optional)
Energy consumption	Uses max. 10 kWh (energy equivalent to 4 liters / 1.1 gal. of biodiesel) at 20°C (68°F) ambient temperature.
Electrical power connections	400 / 380 VAC (3-phase) for Europe or 240 / 208 VAC (3-phase) for North America .