

WHY BUY FUEL WHEN IT'S SO EASY TO MAKE IT?

We know the eco-friendly and cost efficient way to local biodiesel production. We don't know any sensible reason why not make it.

The Preseco SOL10 400-6000 PROFESSIONAL BIODIESEL BATCH PROCESSOR requires very little energy to run, but produces a lot out of your local raw materials. The scale of capacity for our processors varies from 400-6000 litres of oil per day. Each batch processor delivery includes installation, staff training and an easy-to-use analysis kit for each batch of oil. Preseco biodiesel plants are always made from the best quality materials utilising spark-proof plastic and stainless steel.

NEED MORE FACTS?

- You can exploit local raw materials, such as plant oils and animal fats
- You get biodiesel of consistently high quality as production and washing is performed in separate tanks
- The plant is safe to operate as there is no exit for vaporized chemicals
- Chemicals needed: Methanol approx. 20% of the oil by volume, and NaOH/KOH 1-3% depending on the free fatty acids
- Semi-automatic, no need for constant use
- Ecofriendly – both in production and in biodiesel's low emissions
- Excellent fume extraction and fire safety
- Biodiesel has a high cetane rating, which improves engine performance
- Biodiesel is a much better lubricant than conventional diesel fuel and extends engine life
- Economical (e.g. chemicals + electrical power = operating expenses.
In Finland in 2007 = EUR 0.20-0.25 per litre + price of raw material for oil)
- Low energy consumption, high energy output
- Developed to work in a wide range of environmental conditions (low temperature, high humidity, etc.)
- All vegetable oils, oil recycled from restaurants and animal fats are suitable as raw material

- Vehicle Sulphur emissions are eliminated, 50% less ozone (smog) forming potential
- Substantial reduction of unburn hydrocarbons (-93%), carbon monoxide (-50%), and particulate matter (-30%)
- Substantial reduction of cancer causing PAH (-80%) and nitrated PAH compounds (-90%)

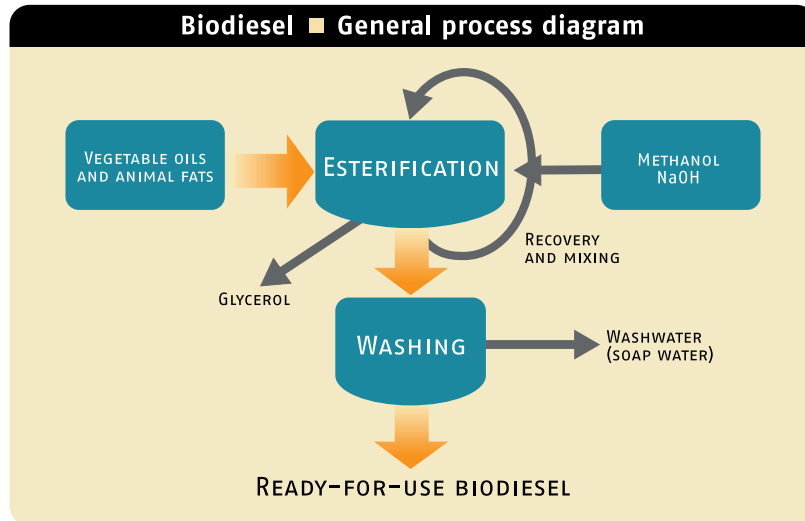
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BIODIESEL IS THE WAY TO GO!

BIODIESEL PRODUCTION



SOL10 400 REACTOR COMPRISES:

- Batch-type processor, one batch is 200 litres of oil
- Capable of two batches a day = 320–360 litres of biodiesel from 400 litres of oil entering the process, depending on the quality of the oil
- Electrical components are always suitable for local conditions
- Only one man-hour needed for two batches



Features:

Capacity	200 + 200 litres of source oil per 24 hours (optional scalability), produces 160 + 160 litres of ready Biodiesel, 40 + 40 liters Glycerol
Washing	Double effect Water Wash with bubble wash, automatic stop function. Requires 3 bar water pressure, max. 6 bar, recommended water temperature approximately 40 centigrade
Pre-Mixing	Hand pump operated, re-circulating, totally closed mixing system for thorough mixing
Methanol recovery	Vacuum operated methanol recovery system
Closed system	Totally closed system with ventilation valve
Circulation pump	Self priming electric pump for all liquid circulation, 0.75 kWh
Vacuum pump	Dual action pump, 0.2 kWh
Tank heaters	2 x 2.5 kWh, 1 x 1 kWh
Glycerol collection	Vacuum operated collection system also collects methanol
Tanks	Stainless steel, 3.5 bar and high vacuum tolerant, with inspection glasses
System Cleaning	Vacuum operated flushing system, all valves can be disassembled
Filtering	100 micron filter for input oils
For Biodiesel produced	standard filters 2 x 20 microns, 1 Pall full filter, Coalescer Water Drier
Dry weight	350 kg
Dimensions	Width 150 cm, length 230 cm, height 228 cm
Raw material	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 the correct recipe
Frame	Tubular steel beams with 6 adjustable feet, (lockable wheels optional)
Energy consumption	Uses max. 10 kWh (equivalent to 4 litres of biodiesel) at 20 centigrade ambient temperature