



PRESECO BIODIESEL PROCESSORS
A SECURE WAY TO LOCAL BIODIESEL PRODUCTION.



BIODIESEL – THE FUEL OF THE FUTURE.

The limited availability of oil, soaring prices and instability in oil-producing regions have triggered the active development of alternative energy sources. Cultivation of oleaginous plants supports sustainable development policies, making energy production more local, creating more jobs and causing less pollution. This is why we are involved in building a high-quality and safe way of producing biofuels locally. Biodiesel (FAME/RME) can be produced from all vegetable oils and some animal oils. Biodiesel is clearly a more environmentally friendly and less polluting alternative to fossil diesel fuel.

Examples of biodiesel raw materials:

- canola oil
- rapeseed oil
- soya oil
- sunflower oil
- jatropha oil
- used cooking oil
- fish (waste) oil
- some animal oils

FEATURES OF BIODIESEL

- excellent fume extraction and fire safety
- high cetane rating: improves engine performance
- better lubricant than conventional diesel fuel: extends engine life
- vehicle sulphur emissions are eliminated; less ozone-forming (smog-forming) potential
- substantial reduction of unburned hydrocarbons, carbon monoxide and particulate matter
- substantial reduction of cancer-causing PAH and nitrated PAH compounds

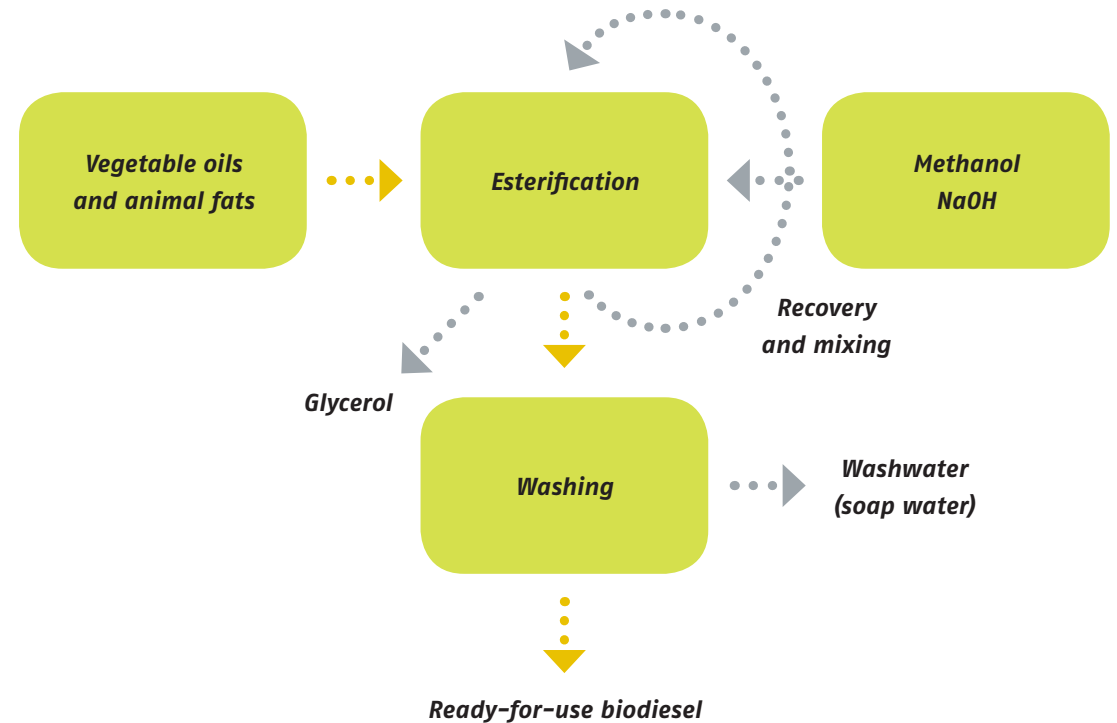
PROCESS OF PRESECO BIODIESEL PROCESSORS

- high-quality and long-lasting equipment made of stainless steel
- economical – low energy consumption
- minimum maintenance required
- consistently high-quality biodiesel, fulfilling the EN14214/ASMT D6751 standard
- totally closed system; gases are collected
- eco-friendly – both in production and in biodiesel's low emissions
- each processor delivery includes installation, staff training and an easy-to-use analysis kit for each batch of oil

PRESECO BIODIESEL PROCESSORS 200 AND 5800

Preseco Biodiesel Processors are automatic units which can process from 400 up to 16,000 litres of oil per day depending on the processor size. With turnkey delivery and processor automation the operational costs are kept to a minimum. Preseco Biodiesel Processors are an eco-friendly option with high-quality design.

Preseco Biodiesel Processors require very little energy to run, but produce a lot out of your local raw materials. The closed system guarantees a very safe odour-free process and a user-friendly environment. The mechanical parts of the Preseco Biodiesel Processors have a 12-month warranty after assembly.



FEATURES OF PRESECO BIODIESEL PROCESSORS

	PRESECO BIODIESEL PROCESSOR 200	PRESECO BIODIESEL PROCESSOR 5800
Capacity	600 (3 x 200) litres of source oil per 24 hours	16,000 (8 x 2000) litres of source oil per 24 hours
Washing	double effect water wash with bubble wash, requires 3 bar water pressure, max. 6 bar, recommended water temperature approximately 40 °C	double effect water wash with bubble wash, requires 3 bar water pressure, max. 6 bar, recommended water temperature approximately 55 °C
Pre-Mixing	totally closed mixing system for thorough mixing	totally closed mixing system for thorough mixing
Glycerol collection	vacuum-operated collection system also collects methanol	vacuum-operated collection system also collects methanol
Methanol recovery	vacuum-operated methanol recovery system	vacuum-operated methanol recovery system
Closed system	totally closed system with ventilation valve	totally closed system with ventilation valve
Dimensions	width 150 cm, length 320 cm, height 220 cm	width 350 cm, length 770 cm, height 470 cm
Tanks	stainless steel, 3-5 bar and high vacuum tolerant	stainless steel, 3-5 bar and high vacuum tolerant
Filtering	for input oils: 100-micron filter for output biodiesel: 2 x 20 microns, 1 Pall full filter, coalescer water drier	for output biodiesel: chemical filtering to remove excess water
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 to ensure the correct recipe	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 to ensure the correct recipe
Energy consumption	uses 10 kWh at 20 °C ambient temperature	uses 600 kWh at 20 °C ambient temperature
Water consumption	50% of oil input	40% of oil input
Automation	semi-automated system	fully automated system, Touchpad Control Panel

INDIVIDUAL TOTAL SOLUTIONS

All our plants for biowaste, water and wastewater treatment as well as biodiesel production are compatible, and by combining them we are able to provide comprehensive and creative environmental solutions which turn all your waste streams into benefit.

For example, a fish-waste processing plant can be constructed from a biodiesel processor, a composting plant and a wastewater treatment plant to produce top-quality biodiesel, composting soil and purified water.



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