

Bio Diesel made simple

BB75

biobot[™]
Bio Diesel Processors



Designed for home or business use

BioBot makes bio diesel *simply, quickly and safely*

In just a few simple to operate stages, you can now make 75 litres of environmentally friendly bio diesel. Simple front panel lever control, the fuel is made, stored and easily dispensed directly into your vehicle from the BioBot processor.

The compact BioBot, can be tucked away in the garage, workshop or shed when not in use.

BioBot's robust construction using industrial grade hoses, valves and fittings incorporates ergonomic front lever control for economical, safe error free use.

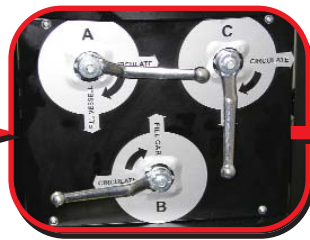
- 75 Litres per Batch
- Simple Front Panel Operation
- Thermostatically Controlled Heat Band Process
- Closed, Safe Integrated Catalyst Mix Process
- Internal Multi-Pass Dry Wash System
- Locking Wheels for Easy Dispensing and Storage
- Heavy Duty Metal Oil Heat Sump
- Built-in 10 Micron Final Filter with Water Trap
- Dispensing Nozzle with Heavy Duty Hose
- De-Water Tap
- CE Approved

Bio Diesel made simple

Simple and easy stages to produce high quality bio diesel:



Add cooking oil to oil sump turn on heater (set to 60°C)



When oil is up to temperature, de-water using front de-water tap. Set front panel control to 'Fill Vessel'



Follow simple titration instructions



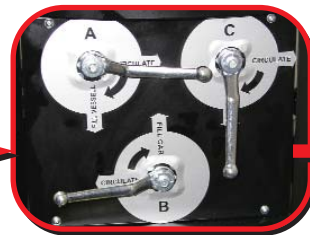
Mix methoxide in mix tank



Connect mix tank to processor. Set front panel control to circulate (Add catalyst)



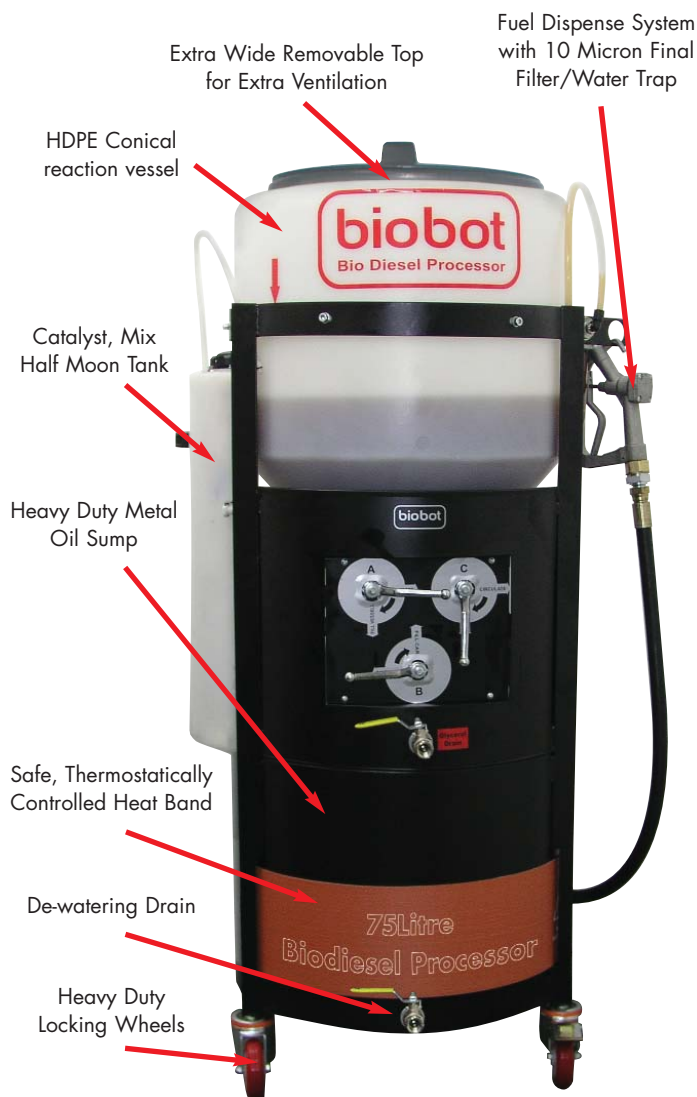
After 4-6 hours (or overnight) Drain glycerine from front tap



Set front panel to "Filter" (Dry Resin Wash) run for at least 4 hours



Wheel processor to your car and dispense your bio diesel



Dry Resin Washing

After draining the waste glycerine from the reacted bio diesel, there are still small amounts of chemical elements and water which need to be removed. The Biobot 75 processor incorporates an integrated dry resin wash, multi-pass system, eliminating the need for messy, time consuming water washing. Using a specially formulated ion exchange resin, the bio diesel is cycled through, purifying the bio diesel with each pass.

Waste Oil Heating

The processor has a heavy duty steel oil sump. For additional safety and control, the Biobot BB75 includes a thermostatically controlled heat band system. This approach provides an indirect form of heating which is inherently safer than a direct form of heating such as an immersion element, boiling the waste oil.

Methoxide Draw System

The introduction of the methoxide in the mixing process is critical to the successful production of bio diesel.

The BB75 has a specially designed "half moon" shaped HDPE mix tank which is un-hooked from the side of the processor and used to mix the catalyst in. The tank has a nylon suction tube with a heavy duty self sealing connector which plugs into the side of the metal frame. The methoxide is then safely drawn into the hot oil at a predetermined rate. This closed method of mixing, eliminates the need of open pouring or mixing.

The Biobot 75 is supplied with a full instruction/safety manual. There is also a step by step video available.

Accessories included:

Titration kit, Methanol & methylate dosage pumps, Thermometer, Safety kit, operation & safety manual.

Other accessories which can be provided include: Flow meter, Resin refills, Titration refills, Methylate, Methanol, Caustic Soda and Potassium Hydroxide.

- Net Weight: 70Kg
- Dimensions: 140cm x 65cm
- AC Operation 240V (Optional 110 Volt version available)

Biobot - available from:

- TEL - +44 (0)1753 682000
- FAX - +44 (0)1753 682277
- WEB - www.biobot.org.uk
- E-MAIL - sales@biobot.org.uk