

Bio Diesel Processor

BB75 ART

With



Accelerated Reaction Technology

biobotTM
Bio Diesel Processors



Designed for home or business use

BioBot - including Accelerated Reaction Technology makes bio diesel ***simply, very quickly and safely***

In just a few simple stages, you can now make 75 litres of environmentally friendly bio diesel. Incorporating Biobot`s Accelerated Reaction Technology – ART the processing /settling time is drastically reduced from hours to minutes.

The fuel is made, stored and easily dispensed 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 design, incorporates, robust electronics, high grade HDPE process/mix tanks, steel frame with oil heat sump and industrial valves and fittings. The processor has easy to operate front panel controls for safe error free use.

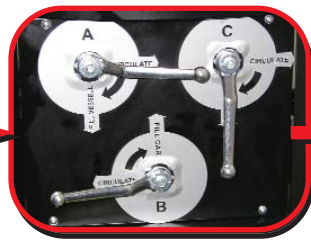
- 75 Litres capacity
- ART (React & Settle in 20 Minutes)
- Simple Front Panel Operation
- Thermostatically Controlled Heat Band
- Internal Multi-Pass Dry Wash Ion Exchange
- Closed, Safe Integrated Catalyst Injection process
- Industrial Wheels with lock
- Heavy Duty Metal Oil Heat Sump
- Built in 10 Micron Final Filter with Water Trap.
- De-Water Drain Off
- Dispensing Nozzle with Heavy Duty Hose
- 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



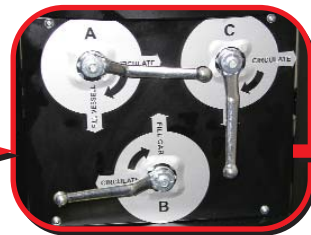
Mix methoxide in
mix tank



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



Activate ART system
and drain off glycerine from front tap



Set front panel to "Filter"
(Dry Resin Wash) run until clear



Wheel processor to your car
and dispense your bio diesel

Accelerated Reaction Technology

The normal reaction /settling time needed to process bio diesel, once the catalyst is added to the hot oil, usually takes hours or even over night. Applying Biobot's unique Accelerated Reaction Technology (ART) It is now possible to drastically shorten the process time to around 20 minutes per tank- This radical time saving converts a lengthy batch process to a semi-continuous process, allowing large quantities of bio diesel to be reacted rapidly. The electronic process is powered by a small 12 volt supply which is provided with the processor.

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.

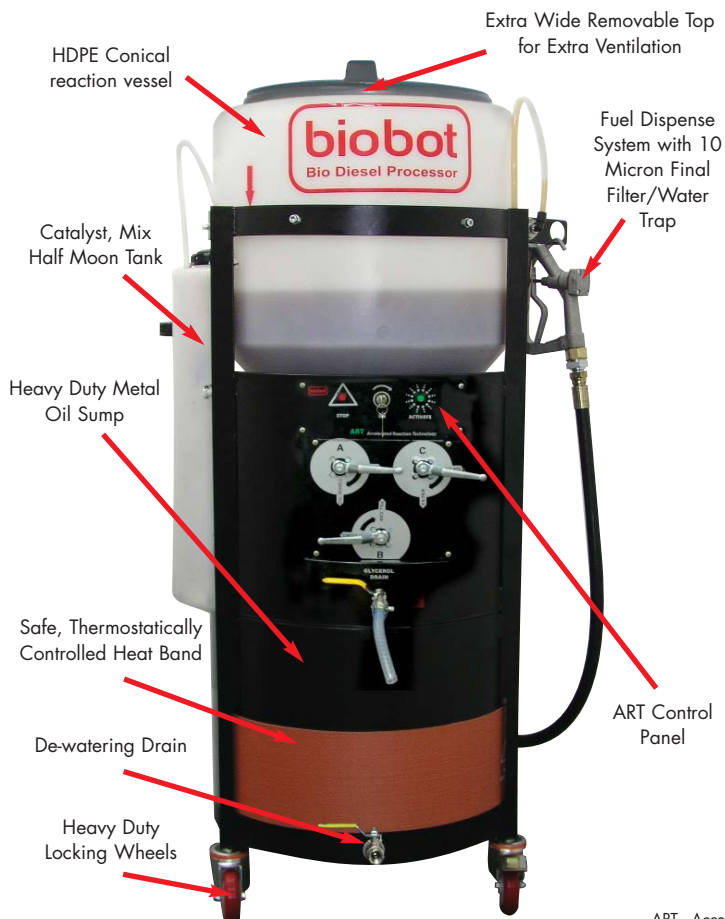
The BB75 has a specially designed "half moon" shaped HDPE mix tank which is un-hooked from the side of the processor and used to mix the catalyst in. The tank has a nylon suction tube with a heavy duty self sealing connector which plugs into the side of the metal frame. The methoxide is then safely drawn 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