



Biodiesel Processors

Processors for basic biodiesel production

The BioMaster System
An economical entry level processor for making biodiesel from vegetable oils



www.bioworks.com.au



The BioMaster processor

The BioMaster processor has been specifically developed with the objective of enabling the wide use and promotion of biodiesel. Drawing on an extensive pool of practical experience in the biodiesel industry and knowledge of the manufacturing process of the biodiesel, BioWorks™ has developed and sourced a range of processors suitable for the DIY/small commercial operators through to large commercial plants. At BioWorks™ we have selected processors that are user friendly, safe and minimise waste products. We also promote the use of materials that do not adversely affect our environment and are always looking for better ways to do things. We care about our environment and the community and believe it is up to all of us to start making a difference today.

The BioMaster 150 processor is Australian designed and built to the highest Australian quality and standards.

The BioMaster 150 processor allows any user to manufacture quality biodiesel using the most advanced, yet surprisingly simple home-batching production technology. BioWorks™ can assist with the provision of all ingredients including raw oil, methanol and catalyst.

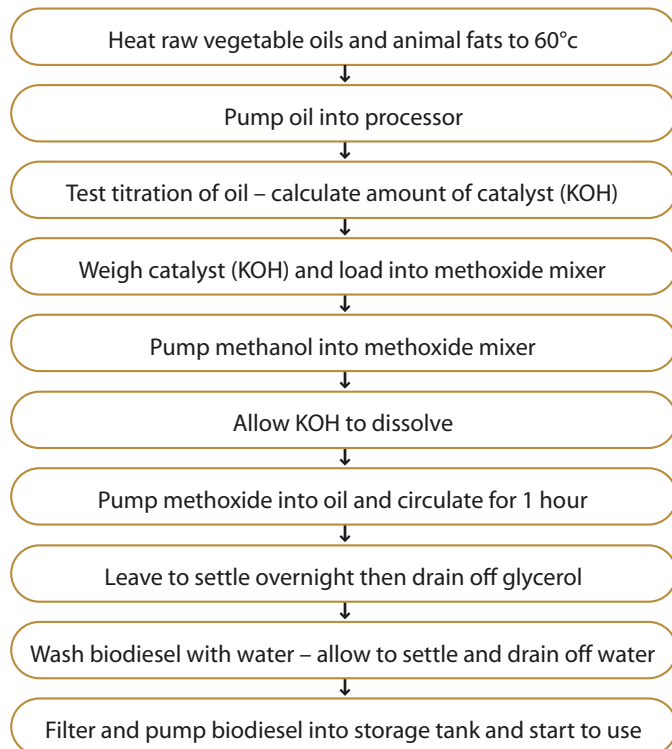
In no time you will be on your way to brewing your first batch of environmentally friendly and engine prolonging biodiesel. Optional settlement tanks are available to expand output.

The BioMaster system

No methanol emissions

No manual mixing of methoxide

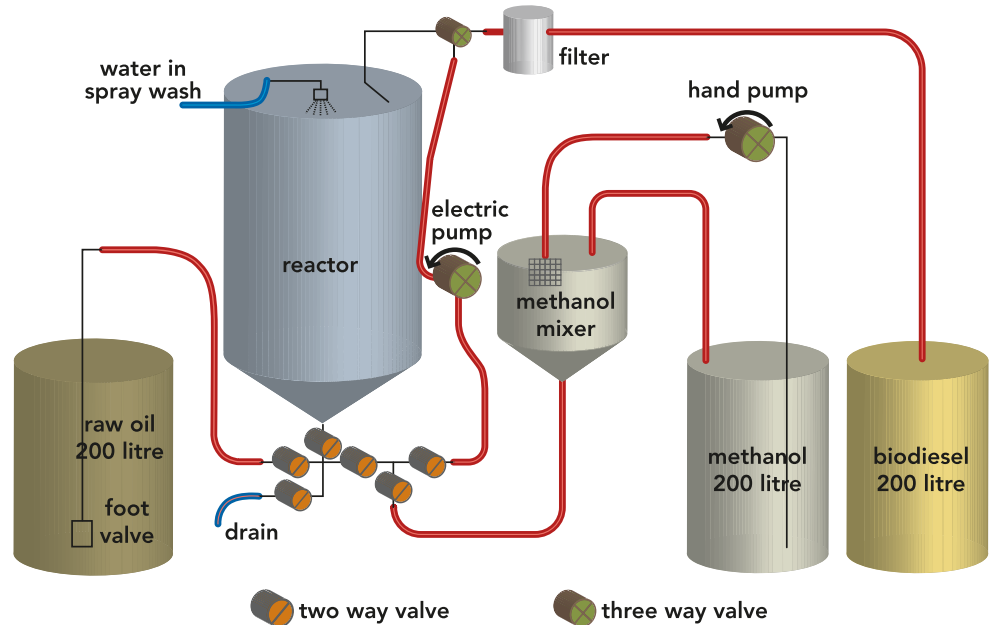
No exposed electrical circuits



reliable and affordable system for every day use

A clean solution for biodiesel production

150 litre biodiesel batching plant



Key features:

- Ideal for used and raw vegetable oils;
- Makes 150L in 24 hours;
- Top quality self draining cone tanks;
- Approx. 1hr labour time;
- Anti-vortex tank fittings;
- Centrifugal tank mixing;
- No pouring or hand mixing of liquids;
- Built in sprinkler wash system;
- Unique design catalyst mixing mesh;
- Designed for complete drainage of liquids;
- Fits in corner of shed (approx 1m²);
- Engineered for safety and quality; and
- Produces high quality biodiesel.

Dimensions:

- 1600mm (high) x 1100mm (long) x 650mm (wide);
- 100 kg;
- 200 litre total volume;
- 150 litre biodiesel production;
- 30 kg glycerol production; and
- 2 kW/hr energy consumption per batch.

BioMaster package

\$

BioMaster Deluxe package

\$

We offer user benefits that pay

How much will my biodiesel cost?

It depends on the raw oil cost – the other direct costs of making biodiesel are approximately:

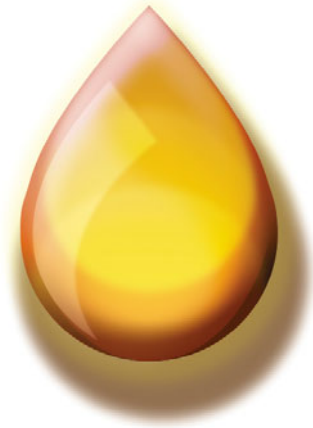
Methanol	20 cents/litre of biodiesel
KOH	1 cent/litre of biodiesel
Power	1 cents/litre of biodiesel
Total direct costs	22 cents/litre

BioWorks™ supports its customers with technical advice and assistance in the production of their biodiesel. We are committed to providing after sales service to support you in the production of your biodiesel and can assist you with all technical, legislative, and quality related issues.

The main cost of processing biodiesel is the cost of the raw materials. Through the BioWorks™ network we provide biodiesel producers with all the raw materials and supplies at reduced prices, and delivered in manageable volumes, including:

- Used cooking oils;
- Vegetable oils;
- Methanol;
- Potassium hydroxide catalyst; and
- Other consumables.

To see our full product range, please visit, www.biodieselwarehouse.com.au



Biodiesel advantages:

- Simple to make;
- Cheaper than petroleum diesel;
- Non-toxic;
- Biodegradable: not harmful to soil or groundwater in cases of accidental spillage;
- Is a renewable fuel;
- Carbon neutral, will not contribute to the Greenhouse Effect;
- Free from sulphur;
- Lower exhaust emissions than petroleum diesel;
- Can be used neat or blended in any ratio with petroleum diesel;
- Higher lubricity than petroleum diesel which can prolong engine life;
- Higher flashpoint than petroleum diesel – safer to handle, store and transport; and
- Not classified as a hazardous substance.

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