



B-500/B-500 Continuous Bioreactor B-500 Commercial Biodiesel Production System

The B-500 commercial Biodiesel processor has the capacity to produce four 400 gallon batches of Biodiesel daily.

The B-500 Biodiesel processor includes all steel plumbing, explosion proof mixing pump, and heavy duty brass ball valves. The Methoxide mixing tank is plumbed with the explosion proof pump for safety and ease of use.

Our exclusive heating system, "The Safety Heat Exchanger" heats the oil safely before and during the conversion process.

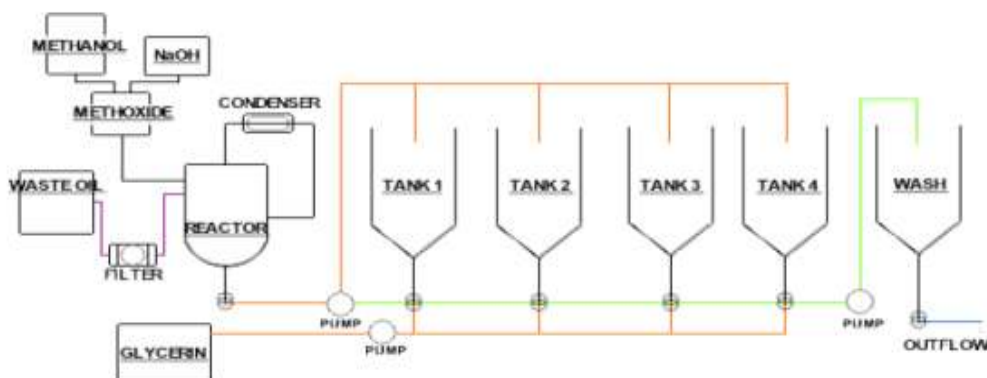


B-500 Commercial Biodiesel System Features:

- 500 Gallon HDP reactor module
- 110 Gallon HDP Methoxide module
- 76 gallon per minute explosion proof
- Methoxide/Biodiesel pump
- External Safety Heat Exchanger
- Methanol recovery module
- Stainless Steel temperature gauge
- Brass ball valves
- Includes Free Shipping in Continental USA

\$11,999.00 Shipped Anywhere in the USA

The B-500 core system can easily be transformed into the B-500 Continuous Batch Unit by adding additional separation modules, plumbing and pumps. Export your crude unwashed Biodiesel to separation modules and free up your core reactor unit to start another batch immediately.





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BioFuel Technologies



Self-Priming Centrifugal Pumps with Explosion Proof Motors

- Cast Iron Construction
- NEMA® Grade with Carbon and Wheel Seal
- 1-1/2", 1-1/4" & 1" NPT Port Sizes
- Self-priming to 20 Ft.
- Maximum Operating Pressure to 20 PSI
- Maximum Temperature 100° F
- Maximum Flow 120 GPM
- Maximum Head 70 Ft.
- Solids Handling up to 1/2" Diameter
- 115 to 230 VAC Single and Three (3) Phase





NEW....! Complete Automation of Biodiesel Units is Available



AutoBio Is Remote Controlled

The AUTOBIO automation system is now remote controlled via IP address. Biodiesel plant managers can monitor and manipulate all aspects of their Biodiesel operation offsite with a computer and an Internet connection.

The AUTOBIO features the Mitsubishi *Human Machine Interface* and may be used with any manufacturer's Biodiesel system. Each Biodiesel plant would have to be evaluated for an estimate.

The AUTOBIO uses the Mitsubishi FX Programmable Logic Controller for outstanding quality and reliability. With over 9 million PLCs sold worldwide makes the FX series the controller of choice. **The retail price of the AUTOBIO is \$45,000**

70CentsaGallon.com (941) 870-2306 info@70CentsaGallon.com



B-500 Continuous Bioreactor

***B-500 Continuous Batch Kit
Only \$50,000 delivered in the USA.***

The B-500cb Biodiesel Plant produces 400 gallon batches of Biodiesel, and has the capacity to produce 2.3 million gallons of Biodiesel annually.

The B-500 Biodiesel processor is the heart of the plant, with the addition of separation & washing modules can operate 24/7.

B-500 Continuous Batch Biodiesel System Features:

- 1 - 110 Gallon Methoxide HDP module***
- 1 - 500 Gallon HDP reactor module***
- 4 - 500 Gallon HDP separation modules***
- 2 - Ion Dry Wash towers***
- 1 - Methanol recovery module***
- 1 - 112 GPM EXP Methoxide/Biodiesel pump***
- 2 - Biodiesel wash pumps***
- 1 - Glycerin pump***
- SS temp gauge***
- Brass ball valves***
- External Heat Exchanger***
- Cyclonic Mixer***
- Hardware installation kit***
- Digital PH meter and digital scales***
- Safety Kit (goggles, apron, & gloves)***





B-500 Continuous Bioreactor





Ion Exchange Resin Towers



- HDP tower
- 16" top man way
- 15" Bottom clean-out
- Ion exchange resin support bed
- 93" x 32"

Specifications

- Capacity 880 pounds ion exchange resin
- Flow rate: 5.5 gallons per minute
- Purolite recommends a lead-lag setup

\$7,000.00 each – Free Shipping

PUROLITE PD 206 – Dry Polishing Media



PUROLITE PD 206 Product Data

Moisture Retention	H ⁺ 50 - 60 %
Specific Gravity	1.20 g/ml
Shipping Weight (approx.)	800 - 830 g/l
Shipping Weight (approx.)	50 - 52 lbs/ft ³
Temp Limit (Stability)	150 °C
Temp Limit (Stability)	300 °F

PUROLITE PD 206 - 220 POUND DRUM: \$1474.00 – Shipping not included



PUROLITE® PD206 is designed for use in purification vessels installed after phase separation. Point of use can either be before demethylation to remove catalyst and glycerin and prevent back reactions or after demethylation as a “final” polishing step.

This media may replace magnesium silicate “wash” and water wash. **PUROLITE® PD206** improves plant productivity and lowers operation costs while enabling ASTM or EN specifications for B100 to be achieved.

PUROLITE® PD206 has a long life before exhaustion. This life is dependent upon the point of installation in the biodiesel process and on the level of impurities in the untreated biodiesel.

PUROLITE® PD206 functions both as a dehydrating (desiccant) media and as an ion exchange polishing media. As a desiccant **PUROLITE® PD206** has a high loading capacity to absorb free glycerin. Trace methanol and water although being absorbed to a limited degree should be removed by stripping in the demethylation column.

Additionally the exceptional exchange capacity removes residual catalyst, and salts that remains after phase separation.

PUROLITE® PD206 is flowable both in the dry form and when exhausted, making it easy to handle during installation and removal from “purification” vessels. **PUROLITE® PD206** is fully compatible for use in methyl ester and ethyl ester purification processes.

PUROLITE® PD206 can be washed with methanol on site several time to maintain it's ability to remove glycerin. However it must be ionically regenerated to maintain the ability to remove trace catalyst and soaps. Consult your Purolite representative for availability and details.

The actual life of **PUROLITE® PD206** will vary depending on process designs and operating characteristic of methyl ester feed quality.

Once **PUROLITE® PD206** is ready for disposal, it should be disposed of in approved landfills or facilities according to local regulations. Check with your local waste management company for proper disposal instructions.

Ships complete with software for calculation of mixture, full assembly instructions, in-person live telephone support and years of experience. Installation, fitting and commissioning is available.