

# Now You Can Make Clean Burning, 100% Biodiesel Fuel!

Power your Car, Truck, Tractor, Generator, or any other Diesel Powered Equipment for under **\$1.00 per Gallon!**



Introducing the

## **BioPro 190** Pat. Pend.

### **SAFE – FAST – EASY**

The first fully automated, industrial grade Biodiesel processor designed for individual and agricultural users.

This state-of-the-art system is easy to use. Versatile – uses fresh or used vegetable oils.



- 🔥 **Fully Automated**
- 🔥 **No Measuring, No Chemistry**
- 🔥 **Completely Portable**
- 🔥 **50 Gallon Capacity**
- 🔥 **TIG Welded Stainless Steel Tank**

The **BioPro 190** can handle it, safely and easily, giving you back clean, 100 % Biodiesel.



- See Back For Details -



# BioPro 190<sup>Pat. Pend.</sup>

## Industrial Grade Biodiesel Processor

### **SAFE - FAST - EASY**



### **General Description**

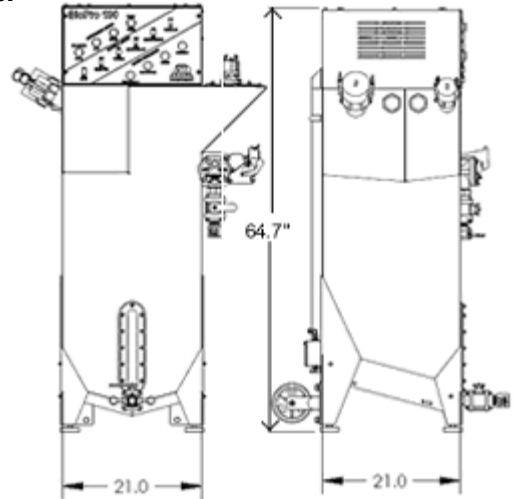
The **BioPro 190<sup>Pat. Pend.</sup>** is designed for just about anyone who wants to economically produce their own, clean burning 100% Biodiesel fuel. The compact, portable design is self contained with individual compartments for each ingredient required to produce Biodiesel. No measuring or mixing chemicals required. Simply add vegetable oil (new or used), methanol, and small amounts of sulfuric acid and lye or caustic potash, and start the automated process. In about 48 hours you will have 50 gallons of clean, smooth-running Biodiesel!

The **BioPro 190<sup>Pat. Pend.</sup>** has been designed for minimal operator involvement. The patented logic controller has built-in fault protection, which provides self monitoring and step-by-step guidance over the operator. The **BioPro 190<sup>Pat. Pend.</sup>** requires no transfer of finished fuel into storage or distribution tanks. Simply pump the Biodiesel directly into your vehicle or equipment fuel tank using the integrated, 12 G.P.M. filler pump!



### **System Specifications**

<b>Dimensions:</b>	21" w x 21" d x 67" h. Overall height adjustable +/- 2"
<b>Weight:</b>	325 Lbs (empty)
<b>Capacity:</b>	50 gal oil to yield 50 gal finished fuel 10 gal methanol - yields approx. 10 gal glycerin
<b>Construction:</b>	TIG welded 304 stainless steel body Powder coated carbon steel covers
<b>Fittings:</b>	304 stainless steel or glass filled polypropylene
<b>Electrical:</b>	110 vAC / 15 Amp Circuit
<b>Controls:</b>	AUTO mode controlled by program logic controller "Start" button initiates completely automated process Manual mode controlled by switch actuation
<b>Reaction Method:</b>	Acid-catalyzed esterification of free fatty acids followed by base-catalyzed transesterification of triglycerides No titration necessary
<b>Wash Method:</b>	Triple-stage turbulent water wash. Waste water removal controlled by conductive level sensor with timer safety backup
<b>Batch Time:</b>	Reaction - 8 hours; Initial settling - 16 hours; Water wash - 14 hrs; Drying cycle - Approx 10 hrs
<b>Total Time:</b>	Approx. 48 hours from start to finish



*The BioPro 190 occupies less than 4 sq. ft. of floor space*



### **Minimum Requirements**

- 50 Gallons of used or new vegetable oil or oil derived from animal fat (triglycerides)
- 10 Gallons of methanol (racing fuel)
- Lye (Sodium Hydroxide - NaOH) or Caustic Potash (Potassium Hydroxide - KOH)
- Sulfuric Acid (93% Pure or better) - Not common battery acid
- Approx. 45 Gallons of fresh standing water
- Standard 110 vAC / 15 amp dedicated power source
- Air tight storage containers for methanol, lye/caustic potash, and sulfuric acid
- All safety equipment such as rubber gloves, protective eye goggles, rubber apron, etc (included)

- Purchase Price -

**\$8395.00**

+ Tax & Shipping

Allow 3 weeks for delivery  
F.O.B. Chico, California 95928

For more information, or to Purchase a **BioPro 190<sup>Pat. Pend.</sup>** Biodiesel Processor, Contact:



UTAH BIODIESEL SUPPLY  
1227 S 2100 W  
SYRACUSE, UTAH 84075  
PHONE: (801) 820-5753  
EMAIL: INFO@UTAHBIODIESELSUPPLY.COM