



▶ PRODUCES 800 LITERS  
200 GALLONS EVERY 24 HRS.



▶ PROTOCOL ACCEPTS USED  
AND NEW VEGETABLE OILS  
AND ANIMAL FAT



▶ QUALITY FUEL EVERY TIME  
WITHOUT THE NEED FOR  
WASHING

RUGGED

RELIABLE

ECONOMICAL



# Bio1 MkVI

CATERING TO THE NEEDS OF BIODIESEL PRODUCERS WORLDWIDE.

396,000 Liter/Year

BIO units are the product of 10 years of research and development. Over 300 units are currently operating in 24 countries. BIO units are chosen for their rugged industrial design, ease of use, leading-edge process protocol, and investment price / capacity ratio.

### Quality Biodiesel

The BIO1 unit is capable of producing 400,000 (100,000 gallons) per year<sup>T</sup>. It includes our world tested BIO400-MkVI reactor, using our proprietary High Temperature Pressurized protocol (HTP) which consistently delivers 98% or better

conversion ratios. The HTP protocol delivers ASTM D6751-3 and EN 14214-2 compliant Biodiesel, without the need to wash.

### No Washing Necessary

Washing Biodiesel with water generates large amounts of harmful effluents which must be processed before disposal, generating complex, time-consuming, additional operating costs. Our HTP protocol eliminates washing altogether, with the resulting cost and quality advantages.



Bio 400MkVI

### The Bio1 Includes:

- » Bio400MkVII Reactor
- » BioAlky – Excess Methanol Extraction Unit
- » BioClean – Centrifugal & Micro filtering (1 Micron) Unit.
- » Spare Parts Kit
- » Lab Kit
- » Safety Gear
- » On Site Training Service\*
- » Technical Support
- » Layout Guidelines
- » 10% Discount on Expansions



BioClean



BioAlky

**Phone: +1.954.889.7BIO (7246)**  
**E Mail: sales@centralbiodieselhpt.com**

[www.centralbiodieselhpt.com](http://www.centralbiodieselhpt.com)

# Bio1

## MkVI



**Bio 400MkVII**



**BioClean**



**BioAlky**

### Bio 400 MkVI:

- Constructed from A36 (SAE 1010), Low carbon steel
- TIG Welded
- Epoxy Paint Finish
- EC 4/94 (ATEX) compliant
- Independent Methanol and Vegetable Oil input circuits
- 4" steel case pressure gage
- Preset Safety Valve
- Dedicated full time venting
- Sight tube volume control
- Emergency stop
- 20 Micron Filter
- 90° Valves with bronze body, chromed sphere and Nylon6 seals
- Viton Seals on Pump
- Individual circuit protection

### BioClean MkII:

- Constructed from A36 (SAE 1010), Low carbon steel
- TIG Welded
- Epoxy Paint Finish
- 15 Usable Gallon Tank
- High Speed Closed Canister Centrifuge
- Rechargeable One Micron Filter
- Adjustable Heating Element
- Industrial Grade Pump & Motor
- 220-240 AC 50/60 Hz
- Solid State Digital Frequency Inverter
- 90° Valves with bronze body, chromed sphere and Nylon6 seals

### BioAlky:

- Sealed, Industrial Grade Dry Vacuum
- Three Phase IP55 Flame proof Motor
- Neoprene / Silicone Diaphragm
- Silicone Valves
- Independent Circuit
- Fully integrated to the Bio400
- Maintenance Free

### Bio1 General Data:

Capacity \_\_\_\_\_ 800 Liters (200 Gallons) every 24 hrs  
 Consumption per liter \_\_\_\_\_ (1/4 Gallon) 40-60 watts  
 Required Installed Power \_\_\_\_\_ 18kW  
 Average Batch Time \_\_\_\_\_ 1Hour  
 Required Personnel \_\_\_\_\_ 1  
 Reaction Temperature \_\_\_\_\_ 90°C (194F)  
 Recommended Reaction Pressure \_\_\_\_\_ 1 Atm  
 Average Settling Time \_\_\_\_\_ 6—8 hours  
 Reactor and BioAlky Volts/Cycles Available \_\_\_\_\_ (Three Phase) 3x200/240/380/440 AC 50/60Hz  
 BioClean \_\_\_\_\_ 220-240 AC 50/60Hz

T—Based on a 330 day year—1920 man hours

\* Does not include Travel & Expenses

Copyright © 2007 All rights Reserved