

# HOMEBREW BIODIESEL

Production & Purification systems

*"Making your own fuel efficiently & economically"*

*Beat Inflation  
Tax Free allowance  
Unbeatable quality fuel*



## Introduction

With the rising cost of oil approaching \$150 a barrel and some projections that it may even rise as high as \$200 per barrel, isn't it time that you considered producing your own fuel? Now you can take advantage of new government legislation allowing TAX FREE fuel production \*UK producers.

All you need is some vegetable oil (waste or virgin) and a few production chemicals. We can then offer all the necessary advice, product, support and assistance to get you producing your own high quality fuel. Our products are available loose or in kit form giving you unbeatable value.

**For as little as £500.00 we can supply a complete system to get your unpurified biodiesel.**

Free training courses are available once you have purchased your equipment.

Advantages & benefits of using Filtertechnik homebrew production systems:

- Free National help line
- Lowest production cost per litre
- Low investment cost
- Unbeatable fuel quality
- 12 month warranty
- Quality control procedures explained
- Free training
- No minimum order charge
- Free test strips and sample bottles
- Complete user manual
- Components available loose for self assembly
- Patented purification technology
- Filter free wash process

*Beat the rising cost of FUEL*



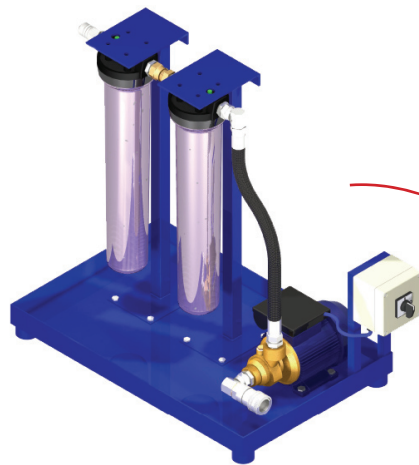
## Biodiesel production just got easier

### Step 1:



WVO  
(Waste Vegetable oil)

### Step 2:



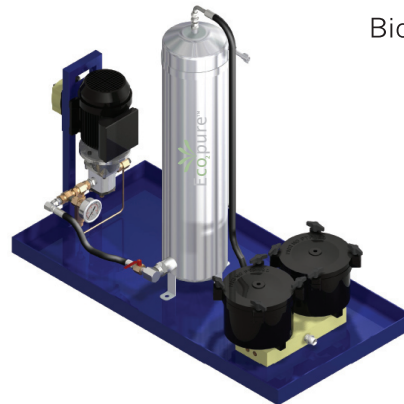
WVO filtration station

### Step 3:



Biodiesel Processor

### Step 4:



Biodiesel Wash & Polish Station  
includes suction & return hoses

### Step 5:



Happy motoring !

**5 simple steps** to effective homebrew biodiesel production

### Step 1:

Collect/buy some waste vegetable oil (WVO)

### Step 2:

Settle and pre-filter the WVO. This will ensure effective removal of solid contaminants, moisture and free fatty acids prior to the reaction. Pre-treatment is required to ensure a good, clean reaction in the next production stage.

### Step 3:

Titrate, react, remove methanol and settle/drain glycerol. Follow the simple guide-lines in the operator manual.

### Step 4:



Wash and Polish (Single pass technology)  
Connect wash and polish station to your settling tanks and start the pump. Dirty biodiesel in...clean biodiesel out! Amazing!

### Step 5:

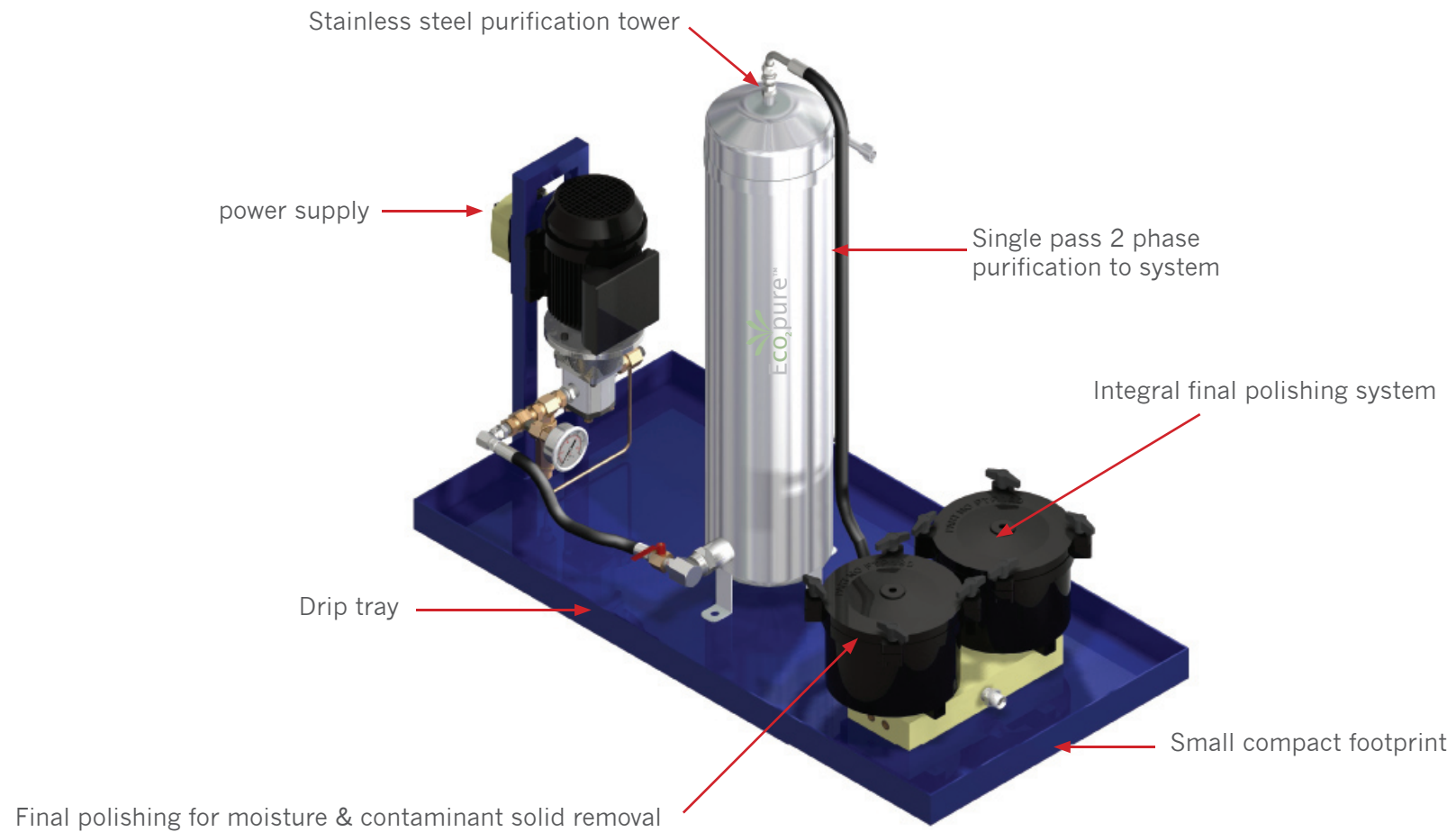
Happy motoring !

Start with a 50/50 blend and increase to suit your vehicle specification.



Item:	Description:	Price (ex VAT):	Order Code:
<p>Biodiesel Processor</p> 	<p>Complete Biodiesel Reactor</p> <ul style="list-style-type: none"> <li>• 60 litre batch capacity</li> <li>• Ideal for beginners</li> <li>• Designed by professional producers</li> <li>• Free safety kit</li> <li>• Free training</li> <li>• Integrated heating element</li> <li>• Glycerol separation valve</li> <li>• Quick release fittings for easy access</li> <li>• 240 volt mains power supply</li> <li>• Temperature gauge for simplicity</li> <li>• Simple to operate, robust design</li> <li>• High quality materials</li> <li>• No copper piping</li> <li>• No HDPE</li> <li>• Compact footprint</li> <li>• Lowest production cost per litre</li> </ul> <p><b>Free training &amp; user manual</b></p>	£499.99	H-BDRK
<p>Safety Kit</p> 			

Item:	Description:	Price (ex VAT):	Order Code:
Biodiesel Processor  	<p>Complete Biodiesel Reactor</p> <ul style="list-style-type: none"> <li>• The 100 and 150 litre reactors are equipped with inbuilt funnels for the addition of sodium hydroxide.</li> <li>• Methanol inlet, pressure release valve, pressure gauge with air inlet attachment and an easy open lid.</li> <li>• All our reactors are CE rated</li> <li>• There is also the option of having the reactors wheels making them easier to site and clean</li> <li>• Float switches are in place as an added safety measure to prevent the heaters from being switched on accidentally whilst there is only methanol in the reactor.</li> <li>• All machines come with an instruction and technical manual but we also offer a one day training course which most people find essential. 100 &amp; 150 litre reactors.</li> <li>• The pumps are stainless steel chemical impeller pumps</li> <li>• The single phase pumps for the 100 and 150 litre reactors are rated:- 1.2-7.2 cubic meters per hour this is 1200-7200liters per hour 0.5 horse power 0.37 kilowatts 2800rpm</li> <li>• Electrical requirements: 13.85kw for the standard model</li> <li>• The heaters are stainless steel elements cast aluminum electrical enclosures o ring sealed</li> <li>• Stainless steel float switches vfs30</li> <li>• Temperature control:- K type thermocouple thermal control for heaters</li> <li>• Shipping weight 40.00 kg</li> </ul> <p><b>Free training &amp; user manual</b></p>	£1995.00  £2700.00	HSSR-100 litre  HSSR-150 litre



**Simple “plug & play” technology**



Item:	Description:	Price (ex VAT):	Order Code:
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Eco<sub>2</sub>pure™ Biodiesel Wash & Polish Station



Purifies Biodiesel in a single passage of flow  
Eliminate the use of wet wash or expensive resins



Eco<sub>2</sub>pure™ 15 kg bag  
Per 15 KG bag (Purifies  
5250-10500 litres)

Complete Biodiesel Wash & Polish Station

- Fits along side your Biodiesel processor
- Ideal for beginners
- Free training
- 240 volt mains power supply
- Pressure gauge fitted
- Simple to operate, robust design
- Lowest production cost per litre
- No settling tanks required
- Holding vessel for purification media bed
- 2 Kg Eco<sub>2</sub>pure™ holding capacity
- 1000 litres per changeout
- Lowest cost, high grade stainless steel
- PED certified
- Continuous flow or batch style
- Single pass technology
- Slim space saving design
- Filter free wash process
- Includes suction and transfer hoses
- Integrated On/Off switch
- Free Biodiesel Directory for chemical and oils suppliers

**Simple plug & play design**



[Click here](#) for more information  
on Eco<sub>2</sub>pure™ range

£950.00






HBWS-1

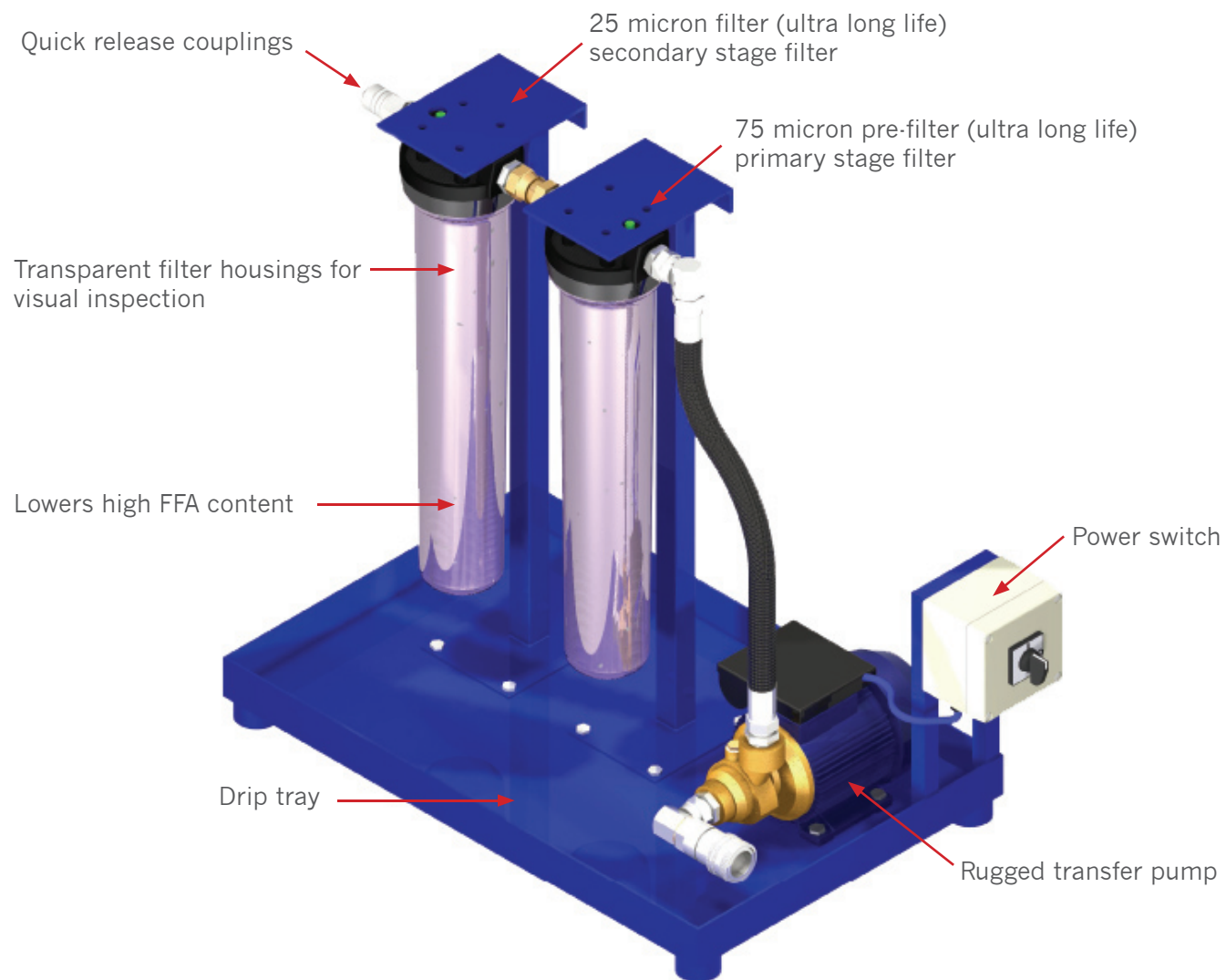
**WILLY'S  
HOT  
OFFER**





*Willy Weasel's*  
homebrew biodiesel





Item:	Description:	Price (ex VAT):	Order Code:
<div>  <b>Organic Cellulose Purification media</b> </div> <div>  </div>	<p>Per 15 KG Eco<sub>2</sub>pure™ bag (Purifies 5250-10500 litres)</p> <ul style="list-style-type: none"> <li>• Third Generation Purification</li> <li>• Organic, sustainably sourced purification media</li> <li>• No filtration required in wash stage</li> <li>• Continuous flow or Batch style</li> <li>• Twice as fast as Ion Exchange Resins</li> <li>• 1/3rd the cost of all competitors</li> <li>• High adsorbent capability</li> <li>• High performance purification</li> <li>• Single pass technology - no intervention required while running</li> <li>• Assists in the attainment of EN14214 and ASTM D6751 quality standards</li> </ul> <div>  <a href="#">Click here</a> for more information on Eco<sub>2</sub>pure™ range         </div>	£49.95	OCPM 15kg
<div>  <b>Biodiesel Purification Tower (Homebrew)</b> </div> <div>  </div>	<p>Stainless steel purification 2kg vessel</p> <ul style="list-style-type: none"> <li>• Holding vessel for purification media bed</li> <li>• 2 Kg holding capacity</li> <li>• 1000 litres per changeout</li> <li>• Lowest cost, high grade stainless steel</li> <li>• PED certified</li> <li>• Continuous flow or batch style</li> <li>• Single pass technology</li> <li>• Slim space saving design</li> <li>• Please request information on plumbing if taken as a loose item</li> </ul>	£275.00	HBEWUSS-1







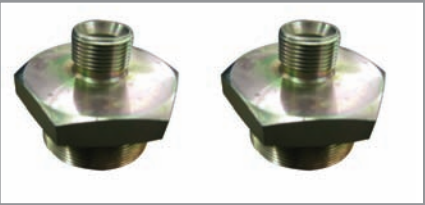

Single pass 2 stage filtration of waste vegetable oils/used cooking oils  
**Simple “plug & play” technology**

Item:	Description:	Price (ex VAT):	Order Code:
	<p>WVO filtration station</p> <ul style="list-style-type: none"> <li>• Ideal for homebrew WVO filtration</li> <li>• Stage filtration of WVO prior to processing</li> <li>• Disposable 75 micron and 20 micron elements included</li> <li>• Recleanable elements available</li> <li>• Integrated On/Off switch</li> <li>• Transfer hoses supplied</li> <li>• 10-30 l/min flow rate</li> <li>• Rugged components</li> <li>• Power supply 240 VAC</li> </ul> <p>Quality Base Feed Stock is the start of biodiesel quality!</p>	£575.00	WVO-FS-HB
<p><b>WVO Prefilter Kit with hoses and connectors</b></p> 	<ul style="list-style-type: none"> <li>• Build your own low cost WVO prefiltration kit</li> <li>• Compatible with FT transfer pumps</li> <li>• <b>Two</b> polypropylene 20" filter housings</li> <li>• High performance stage filtration process</li> <li>• Disposable 75 micron &amp; 20 micron elements included</li> <li>• Recleanable or disposable element selection</li> <li>• 3/4" male male adaptors x4 supplied</li> <li>• Transfer hoses and pump available on request</li> </ul>	£95.00	H-BWVOK





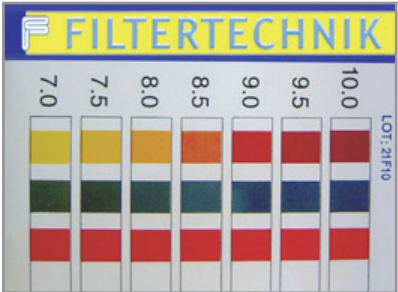
Item:	Description:	Price (ex VAT):	Order Code:
<p><b>FTP180 Biodiesel polishing pots (loose)</b></p> 	<ul style="list-style-type: none"> <li>• High performance final polishing pots</li> <li>• Build your own low cost polishing system</li> <li>• Removes final production residues and soaps</li> <li>• <b>Removes moisture and solid contaminants</b></li> <li>• Easy plumbing arrangement</li> <li>• Removes contamination to 3μ absolute (ISO14/11)</li> <li>• Contains a high performance SDFC cartridge</li> <li>• 1/4" BSP inlet / outlet connections</li> <li>• Includes filter cartridge</li> </ul>	£70.00 each	FTP180
<p><b>BD5000 Biodiesel Polishing &amp; Drying System</b></p>  <p>Works anywhere in the world - Universal power supply</p>	<ul style="list-style-type: none"> <li>• Removes contamination to 3μ absolute (ISO14/11)</li> <li>• Removes water and solid contaminants from biodiesel, diesel and oil</li> <li>• Removes residual production residues and soaps from washed biodiesel</li> <li>• Low, cost rugged design</li> <li>• Compact footprint, portable</li> <li>• High performance filtration system</li> <li>• Simple, portable design</li> <li>• 240/110 VAC 50/60 Hz operation</li> <li>• Air supply version available on request</li> <li>• Optional laser particle counter with PC software</li> <li>• Long element life</li> <li>• Easy, efficient cost savings</li> <li>• Plug and play operation</li> <li>• Essential for wet wash and resin users</li> </ul>	£695.00	BD5000-2-240

Item:	Description:	Price (ex VAT):	Order Code:
<p><b>SDFC (W2) Polishing / Drying Filters</b></p> 	<p>For BD5/6000 range and FTP180</p> <ul style="list-style-type: none"> <li>• Long life filtration cartridge</li> <li>• Water and contamination removal</li> <li>• Removes final production residues and soaps</li> <li>• Holds <math>\pm</math> 2kg of solid contaminants</li> <li>• Holds <math>\pm</math> 800 ml of water</li> </ul>	<p>£12.99 each</p>	<p>SDFC (W2) Disc</p>
<p><b>Universal, low cost filter housing</b></p> 	<ul style="list-style-type: none"> <li>• Versatile filter housing for several applications</li> <li>• Polypropylene construction 20" long</li> <li>• Wide selection of replacement cartridges</li> <li>• Recleanable or disposable element selection</li> <li>• 3/4" male male adaptors (x2 supplied)</li> <li>• Transfer hoses and pump available on request</li> <li>• Can be used to filter WVO</li> </ul>	<p>£29.50</p>	<p>ULCH-1</p>

Item:	Description:	Price (ex VAT):	Order Code:
<p><b>Biodiesel transfer pump</b></p> 	<p>Transfer pump</p> <ul style="list-style-type: none"> <li>• 240v mains powered</li> <li>• 5-35l per minute</li> <li>• Continuously rated</li> <li>• EC Rated</li> <li>• Compatible with wash system, final polishing kit and WVO transfer/filtration</li> </ul>	<p>£99.00 each</p>	<p>PRAB.050M</p>
<p><b>Hoses, gauges and connectors</b></p>   	<p>For purification tower &amp; pump interface</p> <ul style="list-style-type: none"> <li>• Biodiesel compatible hoses and connections</li> <li>• Industrial quality</li> <li>• Connector kit for interfacing between tanks, pumps and purification equipment</li> </ul> <p>Hoses, gauges and fittings are available from stock to suit your plumbing requirements. Please call us for a competitive quotation.</p>	<p>P.O.A</p>	



Item:	Description:	Price (ex VAT):	Order Code:
<b>Free Fatty Acid Indicator strips</b> 	<ul style="list-style-type: none"> <li>• Tube of 40</li> <li>• Dip strips for Free Fatty Acid testing</li> <li>• Instant result</li> <li>• Easy to use</li> <li>• 40 strips per pack</li> <li>• For identification of starting quality of waste vegetable oil</li> <li>• Ideal for oil buyers / collectors / users</li> </ul>	£12.99	FT-FFAIS
<b>Biodiesel Wash Test Bottles</b> 	<ul style="list-style-type: none"> <li>• Sample bottles for mini wash testing</li> <li>• Half fill with water</li> <li>• Half fill with biodiesel</li> <li>• Shake bottle</li> <li>• Visual testing of residual soap levels</li> </ul>	0.50p Each	OSB-LOOSE Min order quantity 1x box of 20 pieces

Item:	Description:	Price (ex VAT):	Order Code:
<b>Ph Testing Strips</b> 	<ul style="list-style-type: none"> <li>• Box of 100 pH level indicator sticks</li> <li>• Tests the quality of biodiesel post reaction</li> <li>• High pH = High contamination</li> <li>• pH neutral = acceptable biodiesel</li> </ul>	£12.99	FB33011
	<ul style="list-style-type: none"> <li>• <b>Special</b> 1x pH Strips and 6x bottles</li> </ul>	£14.99	<b>Special Offer</b>

Package pricing:

Description:

Quantity:

Price (ex VAT):

Order Code:

Package 1:

**'The Basics Only'**

Kit description:

The essential items for the budget conscious

Package 1 Contents

- Biodiesel Processor (60 litres)
- Stainless steel purification 2kg vessel
- Organic Cellulose Purification media (Purifies 5250-10500 litres)
- FTP180 Biodiesel Polishing Pots (loose)
- SDFC (W2) Polishing / Drying Filters
- Ph test strips

1  
1  
15kg bag  
1  
2  
1

£825.00

HBPK-1

Carriage charges £45.00 ex VAT





Package pricing:

Description:

Quantity:

Price (ex VAT):

Order Code:

## Package 2:

### 'Middle of the road'

#### Kit description:

Everything necessary for the self assembly enthusiast

#### Package 2 Contents

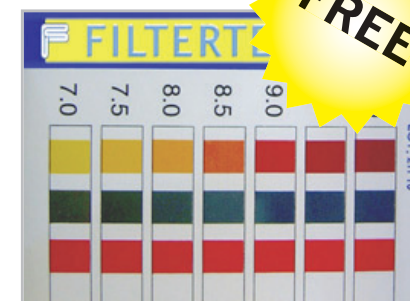
- Biodiesel Processor (60 litres)
- Stainless steel purification 2kg vessel
- Organic Cellulose Purification media (Purifies 5250-10500 litres)
- FTP180 Biodiesel Polishing Pots (loose)
- SDFC (W2) Polishing / Drying Filters
- Ph test strips
- Biodiesel transfer Pump 240 VAC
- Hose, gauge and adaptor set: for connecting to wash tower & polish pot\*

1  
1  
15kg bag  
1  
2  
1  
1  
1

£1125.00

HBPK-2

Carriage charges £45.00 exVAT



\*Contents

Pressure gauge: 0-4 Bar  
Suction hose to pump: 2.5m  
Pressure hose to wash tower: 0.5m  
Transfer hose from wash tower to polish pot inlet: 1.5m  
Transfer from polish pot outlet to final holding tank: 1.5m

## Package pricing:

## Description:

## Quantity:

## Price (ex VAT):

## Order Code:

### Package 3:

### 'The works'

### Kit description:

Everything already assembled, except the WVO kit

Simply plug and play

Get producing in no time

### Package 3 Contents

- WVO Prefilter Kit complete with pump, hoses & cartridges
- Biodiesel Processor (60 litres)
- Biodiesel Wash & Polish Station 240 VAC
- Organic Cellulose Purification media (Purifies 5250-10500 litres)
- SDFC (W2) Polishing / Drying Filters
- Ph test strips

1

£1650.00

HBPK-3

1

1

15 Kg bag

2

1

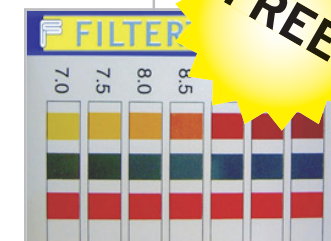
Carriage charges £90.00 exVAT



Biodiesel Processor (60 litres)



Biodiesel Wash & Polish Station  
includes suction & return hoses



FREE

## Package pricing:

## Description:

## Quantity:

## Price (ex VAT):

## Order Code:

### Package 4:

### 'The Connoisseur'

### Kit description:

- The **ULTIMATE** micro-brewery for homebrew biodiesel
- Scaled replica of commercial systems
- Unbeatable value for professional quality production
- Simply plug and play

### Package 4 Contents

- Biodiesel Processor (60 litres)
- BD5000 Biodiesel Polishing & Drying System
- WVO filtration station
- Biodiesel Wash & Polish Station 240 VAC
- Organic Cellulose Purification media (Purifies 5250-10500 litres)
- SDFC (W2) Polishing / Drying Filters
- Ph test strips

1  
1  
1  
1  
15 Kg bag  
2  
1

£2195.00

HBPK-4

Carriage charges £90.00 exVAT

## Free consumables for more than one years production included \*



BD5000 Biodiesel Polishing & Drying System



WVO filtration station



Biodiesel Processor (60 litres)



Biodiesel Wash & Polish Station includes suction & return hoses



**FREE**

\* Please call for details



*"A Passion for Purity"*

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