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BioFuel Technologies



INTRODUCTION

Welcome to the future of Biodiesel Process Equipment. The Biodiesel Precision line of equipment is the most advanced biodiesel system of its kind. No longer does the Customer have to stress about searching for all the separate components for a system and hoping that they are compatible.

This equipment presents a unique opportunity for entrepreneurs, developers, co-ops, municipalities, freight forwarders and any other entity wanting to enter into biodiesel production with a reliable company and equipment. The Precision units are small modular Turn Key systems that are capable of 100,000 Gallons per year to 1.6 million Gallons per year. The Precision systems can work together to easily achieve any amount of production that is needed.

PRODUCTS

Biodiesel Precision line is available in the following Models:

1. Precision 100
2. Precision 200
3. Precision 300
4. Precision 600

We can offer the Following Options for the Precision Unit:

1. Precision Acid Esterification 100600
2. Precision Centrifuge
3. Precision Automation Package
4. Precision Polishing Units
5. Precision Water and Solids Removal
6. Precision Degumming System

QUALITY

It is important to produce ASTM quality biodiesel that the industry demands. Our Biodiesel Experts Guarantee that the Precision equipment can produce an ASTM standard Fuel. If at any point our customers are having problems producing an ASTM fuel We have several consultants that are available within 48 hours to be on the customer's site to evaluate and resolve the issue.

With cost of Virgin oils (Soy, Canola, etc) rising to record heights it is important to have equipment that is capable of handling WVO, UCO, Fats and the like. This is why provides the Acid Esterification Equipment. Acid Esterification is a process to convert the FFA's (Free Fatty Acids) that commonly cause soap in the Transesterification (Main Reaction) process into FAME (Fatty Acid Methyl Esters). FAME is biodiesel and once converted travels with the treated oil into the Transesterification reaction.

We are dedicated to producing quality equipment that ensures our equipment is built to all NEMA Class 1 Division 2 specifications (explosion proof). This keeps our customers, employees and their companies safe. In addition it will also simplify the permitting process with the county, state, as well as approval from local fire marshals. All equipment is constructed with 304 stainless steel to ensure a long lasting, quality piece of equipment.



Our companies technology comes from the large scale biodiesel equipment and consulting community. What we have found is that smaller regional facilities have a much better success rate than the larger or even Mega biodiesel facilities. We created the Precision line from our knowledge of large scale production and innovation to fit within a smaller foot print This concept is a one of a kind unit and is the future of biodiesel production. As our research and experience shows, smaller regional facilities have less logistics to fight with and less overhead to worry about. This lets our Customers concentrate on making a quality product and reaching for Certifications like the BQ9000.

The Precision systems also help with proof of concept for bank loans and investors. Several Customers have started with a small system to prove that their business model works. Once our Customers model proves sustainable, profitable and they receive additional funds, they come back to 70Cents a Gallon to upscale their equipment.

The Precision Units come with many unique features.

- 600 micron pre filter
- Sodium Methylate electric feed diaphragm pump with explosion proof motor
- Methanol feed/circulation centrifugal pump with explosion proof
- Stainless Steel Sodium Methylate/Methanol mix tank
- Load cells on the Methoxide mixer to ensure accurate weight proportions
- Feedstock feed/circulation centrifugal pump with explosion proof motor
- 24 kW feedstock electric heater on reactor
- Stainless Steel Reactor Vessel
- Site Glass to see glycerin separation
- Stainless Steel Centrifugal Pump to remove glycerin
- Ion Tower feed/transfer pump
- Stainless Steel Ion Exchange Resin Tower
- Stainless Steel Methanol Recovery Batch Flash Evaporator
- 24 kW Electric Heater on methanol recovery
- Centrifugal circulation/transfer pump with explosion proof motor
- Air Compressor
- Air Fin Condenser
- Air Ejector to produce vacuum
- Stainless Steel Methanol Recovery Tank
- Stainless Steel Plumbing
- Stainless Steel valves and fittings
- Skid mounted
- Visual Indication gages
- Control panel with Color Touch Screen
- Completely wired, piped, and tested







As a Customer of 70CentsAGallon.com BEI will include Training and Standard Operating Procedures. In addition we provide our Customers with a Reagents Calculator that uses equations from Dr. John Van Gerpen that are well proven, documented and accurate.

Precision units are some of the lowest cost systems to operate in the world. We are able to use fewer materials into the process and we recover and reuse materials.

Cost per Gallon and ROI					
Precision Unit (100, 200, 300, 600) >>>>					600
Quoted Price >>>> (Default price total of both Precision 600 and Acid Esterification Equipment)					\$142,750.00
Insert Your Information in to the YELLOW BOXES					
Feedstock		Cost	Quantity	Cost Per Batch	Cost Per Gallon
	Cost of Feedstock	\$0.50	600	\$300.00	\$0.50
Acid Esterification					
	Methanol Per Gallon	\$1.50	29	\$43.50	\$0.07
	Sulfuric Acid per Gallon	\$3.00	4.5	\$13.50	\$0.02
	Recovered Methanol	\$1.50	17	\$25.50	-\$0.04
Base Transesterification					
	Methanol Per Gallon	\$1.50	120	\$180.00	\$0.30
	Recovered Methanol	\$1.50	24	\$36.00	-\$0.06
	Sodium Hydroxide LB	\$0.50	44	\$22.00	\$0.04
	Dry Wash (depreciation per Gal)	\$0.03	600	\$18.00	\$0.03
	Electricity kWh	\$0.15	60	\$9.00	\$0.02
Totals				\$647.50	\$0.87
Total Cost to Produce a Gallon		\$0.87			
Current Cost of Petrol Diesel Fuel		\$3.00			
Total Profit per Gallon		\$2.13			
Profit Per Batch		\$1,276			
Batches Needed for ROI		112			
Gallons Needed for ROI		67,150			
Total Expected Gallons per day		2400			
Total Days for ROI		28			

Although the Precision units come with many features our Customers will need some additional equipment.

- All Storage tanks for incoming Feedstock, Methanol, Methylate, Glycerin and Finished Biodiesel.
- Centrifuge or Settling tanks to remove water and solids from incoming feedstock
- Lab Equipment and testing materials (lab chemicals can be purchased at Biodiesel Chemicals)
- Plumbing to and from the unit

70CentsAGallon.com offers additional equipment designed to work with the Precision units.

Acid Esterification is a chemical reaction process intended for High FFA materials. This is commonly the case with WVO, UCO, Tallow, Fats and the like. This reaction will convert the FFA to FAME biodiesel. This creates a more economic process and better quality control that is essential for any material greater than 2% FFA.

We are able to provide our Customers with new or rebuilt centrifuges to remove the water and solids that are commonly found in WVO. We can also offer centrifuges for the glycerin separation that fit directly onto the precision units.



Automation

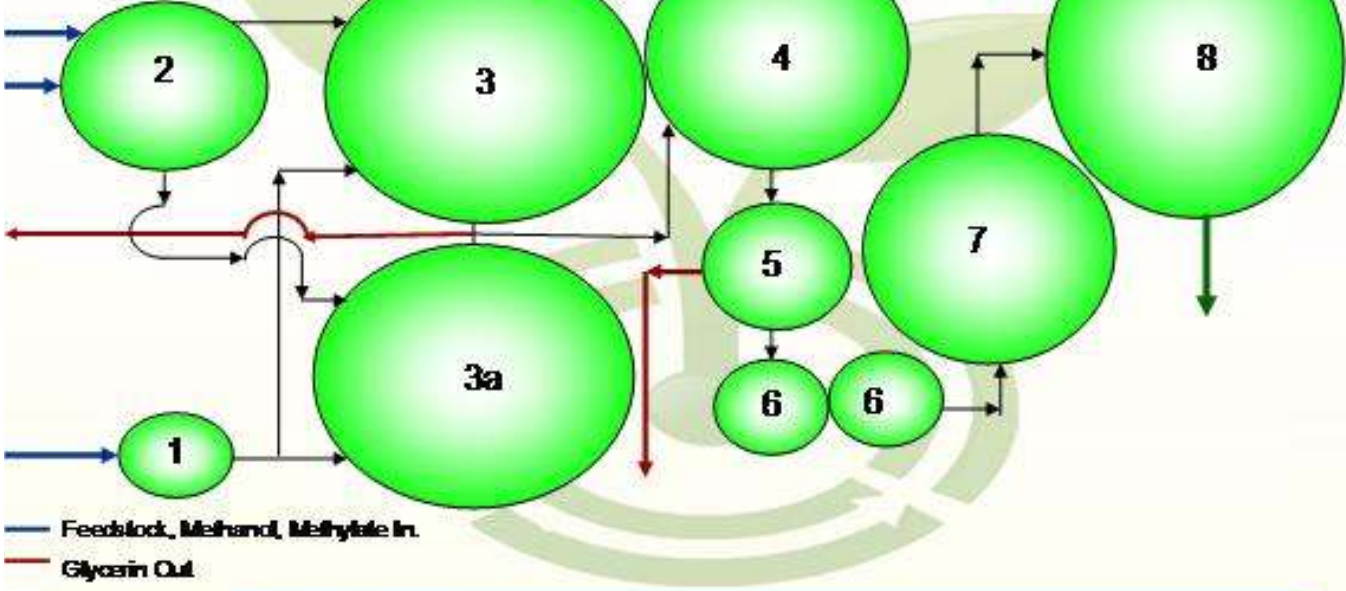
can provide a completely automated Precision unit. This option is desirable for the customer that does not wish to have a 'hands on' experience and wants to minimize the human interaction with the physical machine.

Polishing Systems

We have systems that will perform a final polish that removes water and particulate from the biodiesel to storage tanks and from storage tanks to a desired location.



Precision 200 or 600
Platinum



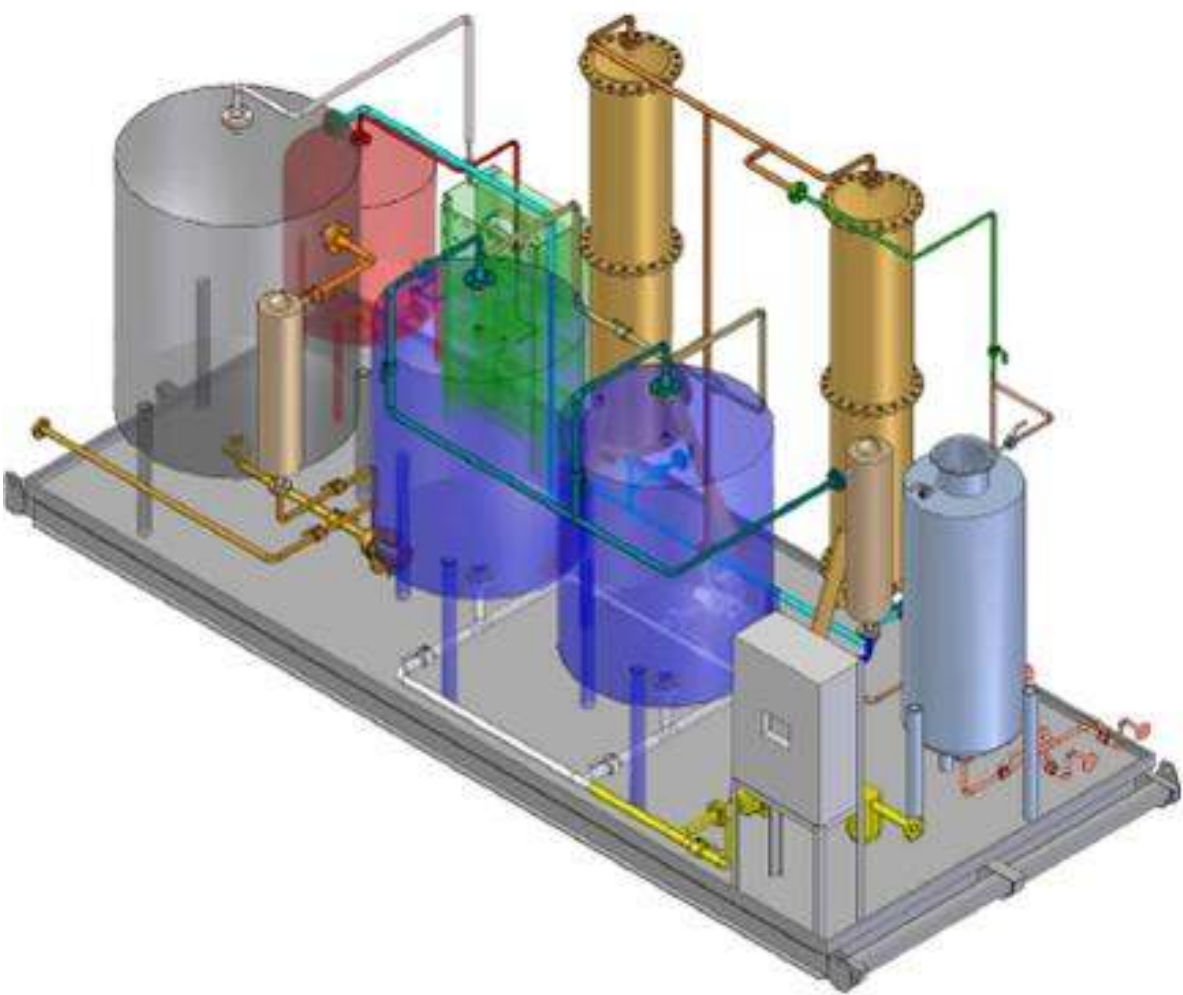
— Feedstock, Methanol, Methylate In.

— Glycerin Out

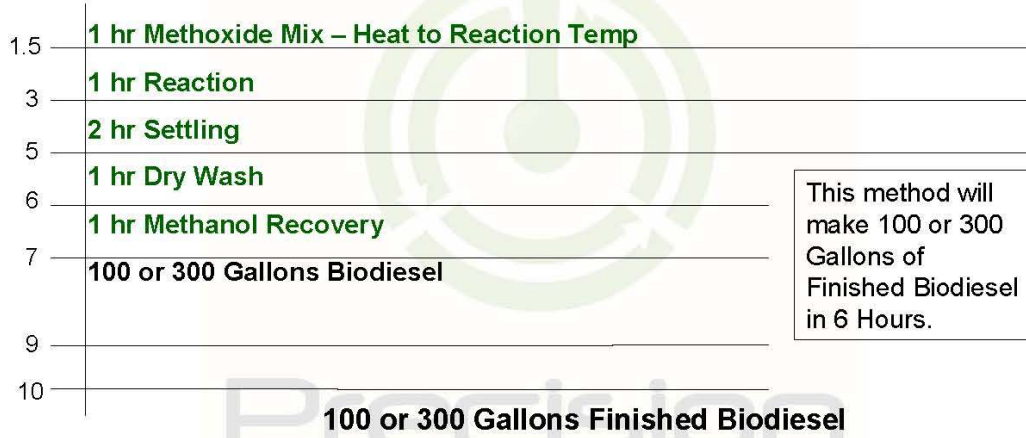
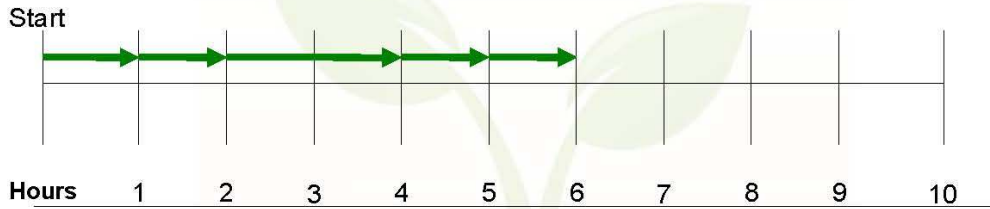
— Biodiesel Out

— Methanol Out

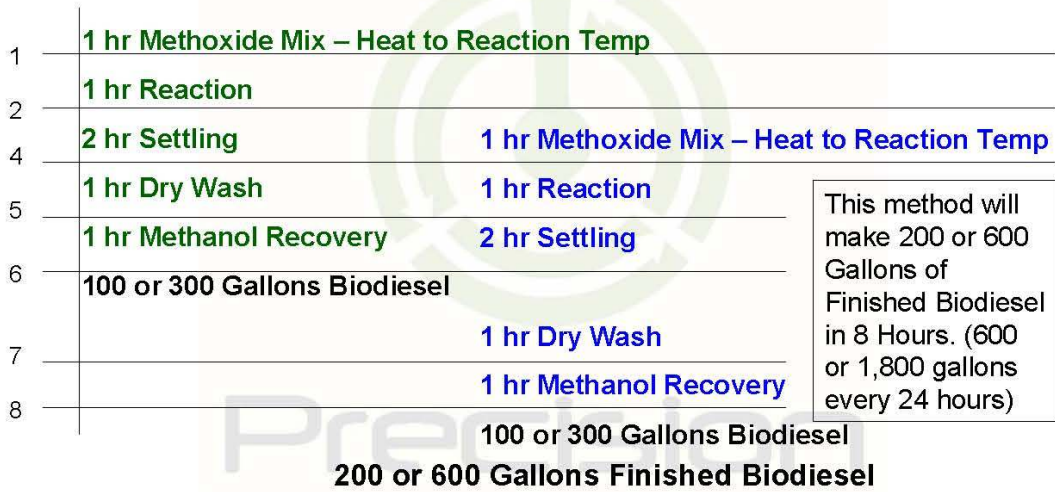
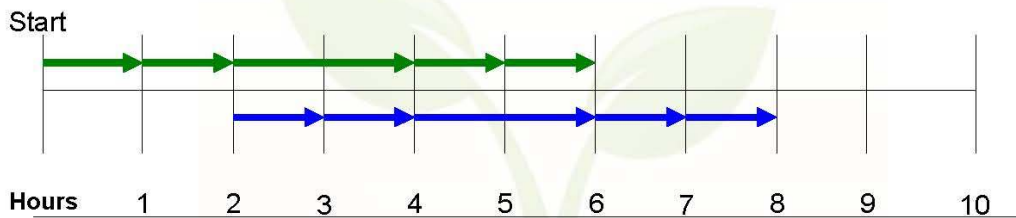
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|------------------------------|-----------------------|
| 1. 600 Micron Filter | 5. Centrifuge |
| 2. Methoxide Mixer | 6. Dry Wash |
| 3. Reactor 1, (3a) Reactor 2 | 7. Surge Tank |
| 4. Surge Tank | 8. Methanol Recovery |
| | 9. Recovered Methanol |



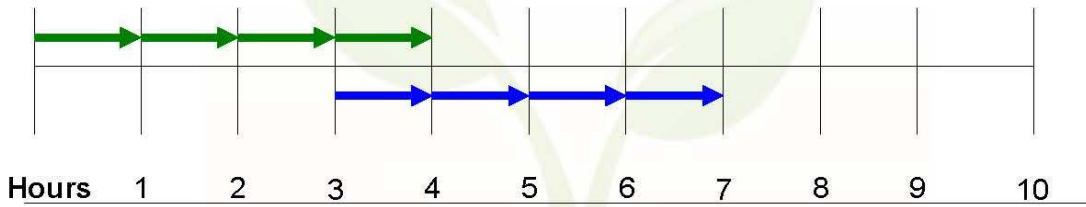
BEI Precision 100 or 300 w/o Centrifuge



BEI Precision 200 or 600 w/o Centrifuge



BEI 200 or 600 with centrifuge

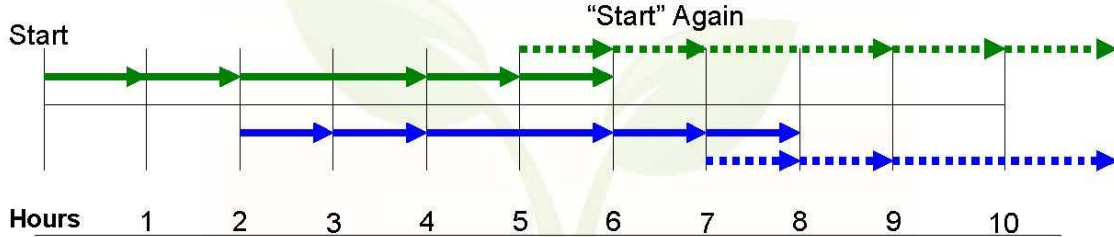


1	1 hr Methoxide Mix – Heat to Reaction Temp	
2	1 hr Reaction	
3	1 hr Centrifuge and Dry Wash	
4	1 hr Methanol Recovery	1 hr Methoxide Mix – Heat to Reaction Temp
5	300 Gallons Finished Biodiesel	1 hr Reaction
6		1 hr Centrifuge and Dry Wash
7		1 hr Methanol Recovery
		300 Gallons Finished Biodiesel

This unit will produce 200 or 600 gallons of Biodiesel every 7 hours.
(600 or 1,800 gallons every 21 hours)

600 Total Gallons of Finished Biodiesel

BEI Precision 200 or 600 w/o Centrifuge, Continuous Batch



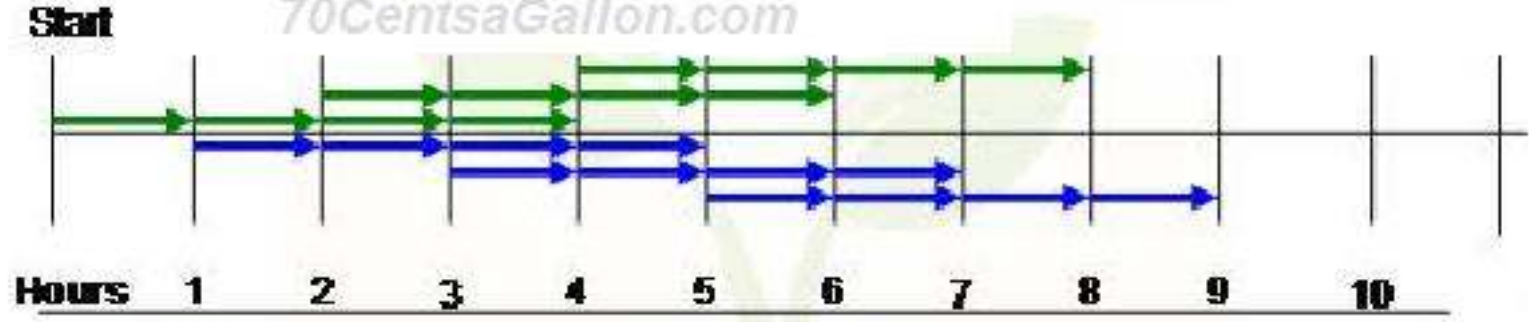
1	1 hr Methoxide Mix – Heat to Reaction Temp	
2	1 hr Reaction	
4	2 hr Settling	1 hr Methoxide Mix – Heat to Reaction Temp
5	1 hr Dry Wash	1 hr Reaction
6	100 or 300 Gallons Biodiesel	2 hr Settling
7		1 hr Dry Wash
8		1 hr Methanol Recovery
		100 or 300 Gallons Biodiesel

After initial 8 hours and 200 or 600 gallons, this unit will produce 100 or 300 Gallons of Finished Biodiesel every 3 hours.

200 or 600 Gallons Finished Biodiesel

BEI 200 or 600 with centrifuge and automation "Platinum Status"

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	Reactor 1	Reactor 2
1	1 hr Methoxide Mix – Heat to Reaction Temp	1 hr Methoxide Mix – Heat to Reaction Temp
2	1 hr Reaction	1 hr Reaction
3	1 hr Dry Wash/Centrifuge	1 hr Centrifuge/Dry Wash
4	1 hr Methanol Recovery	1 hr Methanol Recovery
5	300 Gallons Finished	300 Gallons Finished Biodiesel
6		
7		

Every Hour you will have 300 Gallons of Finished Biodiesel

Precision 100

6 Hours = 100 Gallons
24 Hours = 400 Gallons
350 Days = 140,000 Gallons

Precision 200

8 Hours = 200 Gallons
24 Hours = 800 Gallons
350 Days = 280,000 Gallons

Precision 300

6 Hours = 300 Gallons
24 Hours = 1,200 Gallons
350 Days = 420,000 Gallons

Precision 600

8 Hours = 600 Gallons
24 Hours = 2,400 Gallons
350 Days = 840,000 Gallons

Precision Platinum 600

6 Hours = 1,200 Gallons
24 Hours = 4,800 Gallons
350 Days = 1,680,000 Gallons

*Platinum status can be applied to any system.



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www.70CentsaGallon.com
Sarasota, Florida

The Precision units are going to save our Customers Time, Money and the Environment. When you put the numbers together it is clear to see that the Precision equipment will pay for itself in savings within the first 36 months making its 25+ year life span pure savings for you. We do not ask for an Ongoing license fee, once purchased this equipment is yours and the profit is yours.

Contact us today for a free consultation at (941) 870-2306 info@70CentsaGallon.com

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