

Utah Biodiesel Supply

1227 S 2100 W

Syracuse, Utah 84075

Phone: 801-820-5753 Fax: 866-872-8505

Email: info@utahbio.com



The BioPro And The BioPro EX Automated Biodiesel Processors & Dry Wash Systems

(Pricing as of 8/2/2013, subject to change)

Capacities And Prices Of The BioPro Units:

BioPro 150: Up to 40 gallons every 48 hours - \$7370

BioPro 190: Up to 50 gallons every 48 hours - \$9,995

BioPro 190 EX: Up to 50 gallons every 23 hours - \$13,990

BioPro 380: Up to 100 gallons every 48 hours - \$14,995

BioPro 380 EX: Up to 100 gallons every 23 hours - \$19,990

SpringPro T76 Dry Wash Tower: Dry Wash up to 20 gallons an hour - \$6350

BioPro 380 EX w/ a SpringPro T76: Up to 100 gallons every 13 hours - \$26,380

Contact us for a ship quote to your location on any of the above machines

BioPro Strengths:

- **Safe To Use** - Built from heavy duty stainless steel with explosion proof pumps & motors and CE Certified for safety.
- **Produces High Quality Biodiesel** – Can produce commercial grade ASTM D-6751 biodiesel consistently and repeatedly, provided the operator follows the manual's instructions.
- **Completely Automated** – Simple to use automation controls make fuel production a cinch!
- **Great Cost Benefits** – Make clean-burning biodiesel for about \$0.75 to \$1.25/gal if you can collect your feedstock oil for free. (\$0.75 to \$1.25 is the cost of all your other chemicals and electrical inputs, including water)
- **Able To Handle More Oils** – The BioPro can utilize higher acidic oils than competing processors (up to 5% FFA oil can be reacted into high quality biodiesel in a BioPro processor)
- **Large Install Base** - Over 6.5 Million gallons of annual installed capacity. BioPro's are in 14 countries and 48 states and are also on the campuses of over 60 US colleges and universities.
- **Awesome Factory Support** - The manufacturer offers excellent customer service.
- **Great Warranty** – A full 1 year factory warranty is offered on all BioPro's

The Economics:

For the sake of a good example: If a restaurant (or a school or a military based, etc) started using a BioPro 380 EX which makes up to 100 gallons of biodiesel from 100 gallons of cooking oil every 23 hours or roughly 2400 gallons per month (employee took Sundays off but was hired to load the machine and unload it once a day on every day but Sunday), they'd pay for their machine and labor in 3.5 months. That's with diesel at \$4/gal. If they kept that production rate up, they'd make 28,800 gallons of biodiesel per year and would save upwards of \$67,000 by the end of the first year in fuel value and \$87,000 in every subsequent year!

Links Of Interest:

Our website is packed with information – www.utahbiodieselsupply.com

Our BioPro Product pages:

BioPro 150 – www.utahbiodieselsupply.com/biopro150.php

BioPro 190 – www.utahbiodieselsupply.com/biopro190.php

BioPro 380 – www.utahbiodieselsupply.com/biopro380.php

SpringPro T76 – www.utahbiodieselsupply.com/sprinprot76.php

Our Getting Started Guide – <http://www.utahbiodieselsupply.com/gettingstarted.php>

Our Recommended Start Up Equipment - <http://www.utahbiodieselsupply.com/blog/archives/20>

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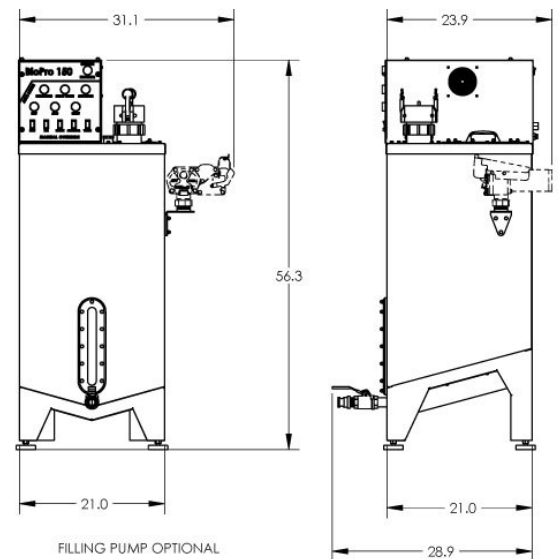
BioPro 150 Automated Biodiesel Processor:



Produces up to 40 gallons every 48 hours
Push button simplicity to operate
Processes, washes & dries biodiesel
Minimal operator involvement
Made from heavy duty stainless steel
Automated water in, manual draining of water out
Easy to use controls
12 GPM Biodiesel Transfer Fuel Pump
Includes Safety Protective Gear



- Dimensions:** 31" W x 24" D x 57" H, Height adjustable +/- 2"
Weight: Approximately 375 lbs
Electrical: 110 VAC / 20 amp Circuit
Controls: AUTO mode controlled by program logic controller
Start button initiates completely automated process
Manual mode controlled by switch actuation
- Reaction Method:** Acid-catalyzed esterification of free fatty acids
Base-catalyzed transesterification of triglycerides
Auto mode capable of reacting oils up to 5% free fatty acid
- Wash Method:** Triple-stage turbulent water wash
1) Mist Spray, 2) Mist & Agitation, 3) Mist & Agitation
Waste water remove done manually by user after each wash
- Batch Time:** Reaction – 8 hours
Glycerin settling – 16 hours
Water Wash – 14 hours
Fuel Drying – Approx 10 hours
Total Process Time – Approx 48 hours start to finish
- Warranty:** 1 year factory warranty



Items Needed To Get Started:

- 40 Gallons (150 liters) new or used filtered & dried vegetable oil with 5% or lower FFA
- 8 Gallons high grade methanol (98.9% purity)
- 1215 Grams Lye (NaOH, Sodium Hydroxide – 98% Pure or better)
- OR 1890 Grams Caustic Potash (KOH, Potassium Hydroxide – 90% pure or better)
- 40 Gallons clean water (can use pressurized water with pressurized water kit)
- 120 volt/20 amp power source

Available Factory Options:

Pressurized Water Kit: Connects wash water to a pressurized water source

APPROXIMATE OUTPUT:

- 40 Gallons Every 48 Hours
- 120 Gallons Weekly
- 480 Gallons Monthly
- 6240 Gallons Yearly



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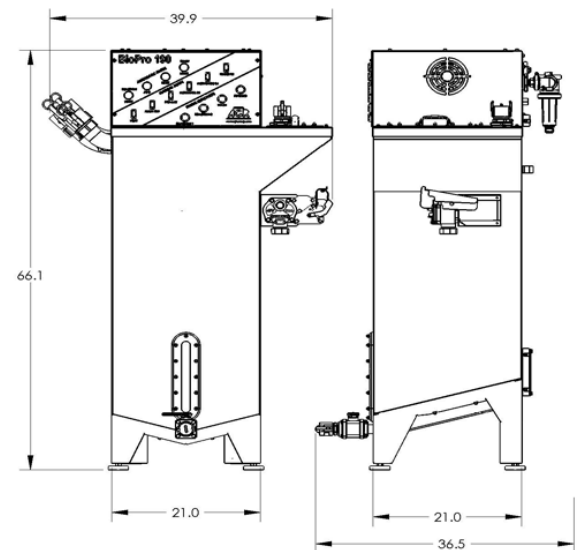
BioPro 190 Automated Biodiesel Processor:



Produces up to 50 gallons every 48 hours
Upgradable with INCOSEP for faster reaction & washing times
Minimal operator involvement
Push button simplicity to operate
Processes, washes & dries biodiesel
Made from heavy duty stainless steel
Automated water in & water out
Easy to use controls
12 GPM Biodiesel Transfer Fuel Pump
Quick Return On Investment
Includes Safety Protective Gear



- Dimensions:** 39.9" W x 36.5" D x 66.1" H, Height adjustable +/- 2"
- Weight:** Approximately 400 lbs
- Electrical:** 110 VAC / 20 amp Circuit
- Controls:** AUTO mode controlled by program logic controller
Start button initiates completely automated process
Manual mode controlled by switch actuation
- Reaction Method:** Acid-catalyzed esterification of free fatty acids
Base-catalyzed transesterification of triglycerides
Auto mode capable of reacting oils up to 5% free fatty acid
- Wash Method:** Triple-stage turbulent water wash
1) Mist Spray, 2) Mist & Agitation, 3) Mist & Agitation
Waste water removed automatically
Dries washed fuel after water wash automatically
- Batch Time:** Reaction – 8 hours
Glycerin settling – 16 hours
Water Wash – 14 hours
Fuel Drying – Approx 10 hours
Total Process Time – Approx 48 hours start to finish
Total Time Can Be Accelerated By Adding An INCOSEP Unit
- Warranty:** 1 year factory warranty



Items Needed To Get Started:

- 50 Gallons (190 liters) new or used filtered & dried vegetable oil with 5% or lower FFA
- 10 Gallons high grade methanol (98.9% purity)
- 1520 Grams Lye (NaOH, Sodium Hydroxide – 98% Pure or better)
- OR 2350 Grams Caustic Potash (KOH, Potassium Hydroxide – 90% pure or better)
- 50 Gallons clean water (can used pressurized water with pressurized water kit)
- 120 volt /20 amp power source

Available Factory Options:

- Pressurized Water Kit** – Connect water in to a pressurized water source
- INCOSEP Accelerator** – Factory installed reduces total process time to 21.5 hours
- SpringPro T76 Dry Wash System** – Eliminates need for water wash, reduces washing time to 2.5 hours

Approximate Output

50 Gallons Every 48 Hours
150 Gallons Weekly
600 Gallons Monthly
7800 Gallons Yearly

Approximate w/ INCOSEP

50 Gallons Every 21.5 Hours
360 Gallons Weekly
1440 Gallons Monthly
18,740 Gallons Yearly

Approximate w/ INCOSEP & T76

50 Gallons Every 13 Hours
600 Gallons Weekly
2400 Gallons Monthly
31,200 Gallons Yearly



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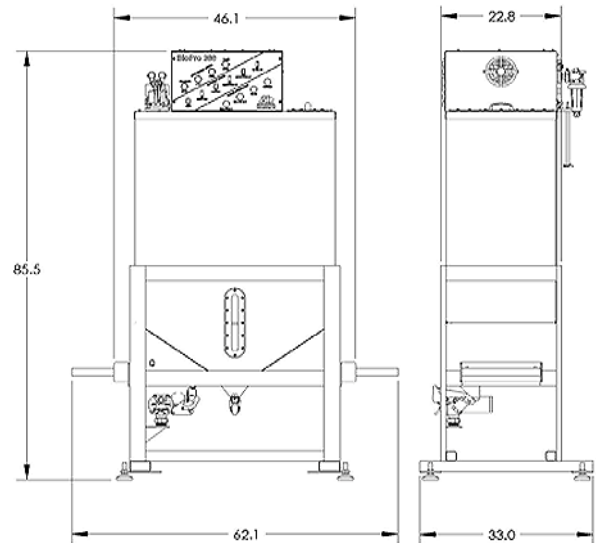


BioPro 380 Automated Biodiesel Processor:



- Produces up to 100 gallons every 48 hours
- Upgradable with INCOSEP for faster reaction & washing times
- Minimal operator involvement
- Push button simplicity to operate
- Processes, washes & dries biodiesel
- Made from heavy duty stainless steel
- Automated water in & water out
- Easy to use controls
- 12 GPM Biodiesel Transfer Fuel Pump
- Quick Return On Investment
- Includes Safety Protective Gear
- Includes Pressurized Water In Kit

- Dimensions:** 63" W x 33" D x 86" H, Height adjustable +/- 2"
- Weight:** Approximately 675 lbs
- Electrical:** 110 VAC / 20 amp & 220 VAC/20 Amp Circuit
- Controls:** AUTO mode controlled by program logic controller
Start button initiates completely automated process
Manual mode controlled by switch actuation
- Reaction Method:** Acid-catalyzed esterification of free fatty acids
Base-catalyzed transesterification of triglycerides
Auto mode capable of reacting oils up to 5% free fatty acid
- Wash Method:** Triple-stage turbulent water wash
1) Mist Spray, 2) Mist & Agitation, 3) Mist & Agitation
Waste water removed automatically
Dries washed fuel after water wash automatically
- Batch Time:** Reaction – 8 hours
Glycerin settling – 16 hours
Water Wash – 14 hours
Fuel Drying – Approx 10 hours
Total Process Time – Approx 48 hours start to finish
Total Time Can Be Accelerated By Adding An INCOSEP Unit
- Warranty:** 1 year factory warranty



Items Needed To Get Started:

- 100 Gallons (380 liters) new or used filtered & dried vegetable oil with 5% or lower FFA
- 20 Gallons high grade methanol (98.9% purity)
- 3040 Grams Lye (NaOH, Sodium Hydroxide – 98% Pure or better)
- OR 4700 Grams Caustic Potash (KOH, Potassium Hydroxide – 90% pure or better)
- 100 Gallons clean water (can used pressurized water with pressurized water kit)
- 120 volt / 20 amp & 220 volt / 20 amp power source

Available Factory Options:

Pressurized Water Kit – Included on all BioPro 380's

INCOSEP Accelerator – Factory installed reduces total process time to 21.5 hours

SpringPro T76 Dry Wash System – Eliminates need for water wash, reduces washing time to 2.5 hours



Approximate Output

100 Gallons Every 48 Hours
300 Gallons Weekly
1200 Gallons Monthly
15600 Gallons Yearly

Approximate w/ INCOSEP

100 Gallons Every 21.5 Hours
720 Gallons Weekly
2880 Gallons Monthly
34,560 Gallons Yearly

Approximate w/ INCOSEP & T76

100 Gallons Every 13 Hours
1200 Gallons Weekly
4800 Gallons Monthly
62,400 Gallons Yearly

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SpringPro T76 Biodiesel Dry Wash System:



Dry Washes 20 Gallons Of Biodiesel Every Hour
Utilizes Cellulose Fiber & Ion Exchange Resin Media
Eliminates Need For Water In Production Of Biodiesel
Easily Attaches To All BioPro Processors (150, 190, 380)
Includes All Hoses & Fittings To Attach To BioPro Processors
Dry Washes Fuel In An Industry Standard Lead/Lag Configuration
Inline Fuel Filter, Pressure Gauges, & Valves Included
Easy To Use & Simple Single Switch Operation
Can Dry Wash 100 Gallons Of Biodiesel In 5 Hours
Removes Soaps & Excess Glycerin In The Biodiesel
Swinging Columns w/ Removable Bottoms

Dimensions: 33" W x 33" D x 74" H, Height adjustable +/- 2"
Weight: Approximately 675 lbs
Electrical: 110 VAC / 20 Amp Circuit
Controls: Switch For Electric Motor, Valves For All Fittings
Washing Method: Fiber Media Filtration With Dry Wash Ion Exchange Resin
Fiber Cellulose Media Filters Out Large Amounts Of Soap
Ion Exchange Resin Modifies Remaining Soap
Warranty: 1 year factory warranty



Approximate Output:

20 Gallons Washed Every Hour

Up To 480 Gallons Washed Per 24 Hour Period