

Biostation™ 10

TECHNICAL DATA

Product Description & Features

Whether new to or an experienced biodiesel producer, a Biostation™10 helps you produce 1000 litres of high quality biofuel safely every 24 hours through specialist process automation.

To make biodiesel you need 1000 litres of waste or virgin vegetable oil plus 200 litres of methanol and catalyst – Sodium or Pottasium Hydroxide. All supplies can be purchased through Enertec™ Fuels Ltd.

The approved system automates all stages – heating, mixing, separation and biodiesel purification.

Fully enclosed batch system – makes 1000 litres of high quality biodiesel per day

Operation via EFPC™101 – intelligent LCD digital process automation

Enhanced safety features with overheat protection, system shut down at 60C via EFPC™101

Machine automated - oil and chemical loading, reaction & separation, fuel purification, fuel dispensing

Approved pump and heater for safety and reliability

Oversized 1300 litre steel chemically resistant powder coated internal reaction vessel with conical type base, ensuring strong circulation, glycerine separation and complete drainage

Machine body components chemically resistant powder coated for long life

Automated Methoxide introduction from chemical preparation vessel

Fuel purification – integrated wet wash/dry aeration system for time efficient improved fuel quality

Enertec Fuels™ Ltd technical support and 12 months warranty



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Technical Information

Machine	Biodiesel Processor
Internal reactor tank capacity	1300 litres
Process	Automated transesterification of vegetable oils > biodiesel
Process operation with automation	Simple to use 4 key LCD display guides user,
– EFPC™101	stops, starts and times - every stage + electrical components
Maximum temperature	60C - Machine shutdown via EFPC™101
Reaction/Mixing process	Automated Methox induction
Machine construction	Engineered steel cuboid design for optimal fully enclosed integration plus storage space
Machinery & Processor finish	Chemically resistant powder coated paint
Dimensions	Height - 1,700mm
	Width - 1,200mm
	Diameter - 1,400mm
Weight	370kg
Supply requirements	415v 3 phase power, 4KW per phase
	Standard water connection
Biodiesel purification	Automated integrated wet wash and aeration drying system, saving you money compared to ion exchange dry washing
Dispensing filtration	10 micron
Compliance	CE, ATEX

Internal Features

Fully enclosed reaction tank	>	In built spill tray with drain plug
Oil suction input hose with filter	>	Catalyst suction input hose
Glycerine, water drainage valve	>	Clear volume sight gauge
All pipework clear for visibility	>	Low level tank sight window
Fuel filter and housing	>	Fuel purification system
Storage Space		

External Features

Lockable front door	>	Fuel dispensing hose and nozzle
Top access viewing for material sampling	>	Water supply connector
Machine feet for access		

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