TECHNICAL DATA SHEET – VEGETABLE OIL GENERATOR - 165 KW

www.OrganicMechanic.com/Vegetable-Oil-Generator/

Generator Details:

- Multi-Fuel: Runs with Straight Vegetable Oil (SVO: Canola/Rapeseed, soy, sunflower, palm, jatropha, algae, etc) or Waste Vegetable Oil (WVO such as cooking oil), plus Biodiesel, and common Diesel fuel.
- Suitable as backup system for off-grid systems. Can be integrated into solar, wind, Hydro power plants.
- SUPER SILENCED (70 dB(A)±3 at 7 mt.): Soundproof enclosure, soundproof material, internal silencer.
- Constructed for Continuous long-term Operation: Engine/alternator monoblock unit coupled through flexi-disc couplings, installed on a welded steel baseframe, complete with antivibration mountings.
- Doors are 20/10 sheet steel, inox-steel handles and hinges, external fuel tank cap w/ key, lifting hooks.
- Easy to operate by means of fully automatic PLC-control, supports local or remote control.
- Diesel tank: 45 Gallons (170 litres), vegetable oil tank connected externally (not included).
- Fuel consumption at 75% of load: approx. 7 Gal/Hour (26.6 L/h).
- Dimensions, In: 130 L x 44 W x 59 H (MM: 3300 L x 1100 W x 1500 H).
- Weight: 4,608 Pounds (2,090 Kilos).
- Lead acid batteries: 12 V / 145 Ah.

ELECTRIC START PANEL

- Earth fault device
- Low fuel level switch
- Emergency stop button
- Magnetothermic circuit breaker
- Socket 32A 230V, Socket 32A 400V
- Voltmeter + phase selector switch
- Ammeter, Frequency meter, Hours run meter
- Multiple engine safety devices: high water temperature, low oil pressure, battery charger fault.

EQUIPMENT SPECIFICATION (according ISO 8528/1)

- Frequency: 50 Hz or 60 Hz (Specify at order)
- Voltage available to the terminals: 400/230 V
- Standby power at cosφ 0.8: 165 kVA
- Prime power at cosφ 0.8: 150 kVA
- Standby power at cosφ 0.8: 132 kW
- Prime power at cosφ 0.8: 120 kW

ENGINE

- 4 stroke motor, water cooled, intercooled
- Brand and model: DEUTZ BF6M 1013 EC
- Emission standard: Stage 2
- Displacement: 7,146 cc
- Governor: electronic
- Max power: 189 HP
- R.P.M.: 1,500
- Cylinders: 6

ALTERNATOR

- Synchronous generator with electronic governor
- Model: MECC-ALTE ECP 34-2L/4 (or similar)
- Continuous power: 50 or 60 Hz, 150 kVA
- Automatic Voltage Regulator (AVR)
- Stator/rotator insulation: class H
- Protection level: IP21
- Poles: 4

Generator Details:

- Multi-Fuel: Runs with Straight Vegetable Oil (SVO: Canola/Rapeseed, soy, sunflower, palm, jatropha, algae, etc) or Waste Vegetable Oil (WVO such as cooking oil), plus Biodiesel, and common Diesel fuel.
- Suitable as backup system for off-grid systems. Can be integrated into solar, wind, Hydro power plants.
- SUPER SILENCED (70 dB(A)±3 at 7 mt.): Soundproof enclosure, soundproof material, internal silencer.
- Constructed for Continuous long-term Operation: Engine/alternator monoblock unit coupled through flexi-disc couplings, installed on a welded steel baseframe, complete with antivibration mountings.
- Doors are 20/10 sheet steel, inox-steel handles and hinges, external fuel tank cap w/ key, lifting hooks.
- Easy to operate by means of fully automatic PLC-control, supports local or remote control.
- Diesel tank: 45 Gallons (170 litres), vegetable oil tank connected externally (not included).
- Fuel consumption at 75% of load: approx. 7 Gal/Hour (26.6 L/h).
- Dimensions, In: 130 L x 44 W x 59 H (MM: 3300 L x 1100 W x 1500 H).
- Weight: 4,608 Pounds (2,090 Kilos).
- Lead acid batteries: 12 V / 145 Ah.

ELECTRIC START PANEL

- Earth fault device
- Low fuel level switch
- Emergency stop button
- Magnetothermic circuit breaker
- Socket 32A 230V, Socket 32A 400V
- Voltmeter + phase selector switch
- Ammeter, Frequency meter, Hours run meter
- Multiple engine safety devices: high water temperature, low oil pressure, battery charger fault.

EQUIPMENT SPECIFICATION (according ISO 8528/1)

- Frequency: 50 Hz or 60 Hz (Specify at order)
- Voltage available to the terminals: 400/230 V
- Standby power at cosφ 0.8: 165 kVA
- Prime power at cosφ 0.8: 150 kVA
- Standby power at cosφ 0.8: 132 kW
- Prime power at cosφ 0.8: 120 kW

ENGINE

- 4 stroke motor, water cooled, intercooled
- Brand and model: DEUTZ BF6M 1013 EC
- Emission standard: Stage 2
- Displacement: 7,146 cc
- Governor: electronic
- Max power: 189 HP
- R.P.M.: 1,500
- Cylinders: 6

ALTERNATOR

- Synchronous generator with electronic governor
- Model: MECC-ALTE ECP 34-2L/4 (or similar)
- Continuous power: 50 or 60 Hz, 150 kVA
- Automatic Voltage Regulator (AVR)
- Stator/rotator insulation: class H
- Protection level: IP21
- Poles: 4