TECHNICAL DATA SHEET – VEGETABLE OIL GENERATOR - 66 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.
- **SUPERSILENCED** (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: 34.3 Gallons (130 litres), vegetable oil tank connected externally (not included)
- Fuel consumption at 75% of load: approx. 2.7 Gal/Hour (10.2 L/h)
- Dimensions, In: 100 L x 40 W x 55 H (MM: 2500 L x 1000 W x 1400 H)
- Industrial painting in RAL 1004 (golden yellow)
- Weight: 1,300 Pounds (2,866 Kilos)
- Lead acid batteries: 12 V / 100 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

Technical Data:

- **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: 66 kVA
  - Prime power at cosφ 0.8: 60 kVA
  - Standby power at cosφ 0.8: 53 kW
  - Prime power at cosφ 0.8: 48 kW

ENGINE

- 4 stroke motor, water cooled, intercooled
- Brand and model: PERKINS 1104C-44T
- Emission standard: Stage 2
- Displacement: 4,410 cc
- Governor: Mechanical
- Max power: 83 hp
- R.P.M.: 1,500
- Cylinders: 4

ALTERNATOR

- Synchronous generator with electronic governor
- Model: MECC-ALTE ECO32 2L4 (OR SIMILAR)
- Continuous power: 50 or 60 Hz, 60 kVA
- Automatic Voltage Regulator (AVR)
- Stator/rotator insulation: class H
- Protection level: IP21
- Poles: 4

Price: $24,999

Plus Shipping Delivery 4-8 Wks Worldwide