



## TECHNICAL DATA SHEET ATG165SP – VEGETABLE OIL GENERATOR

### DESCRIPTION

#### 1. STRUCTURE

- Runs with Straight Vegetable Oil (SVO, e.g. rape oil, soya oil, sun flower oil, palm oil, jatropha oil, ...), Waste Vegetable Oil (WVO) or common Diesel fuel
- Easy to use by means of fully automatic PLC-control, supports local or remote operation
- Suitable as backup system for off-grid systems (e.g. solar and wind power plants)
- SUPERSILENCED (70 dB(A)±3 at 7 mt.)
- Engine/alternator monoblock unit coupled through flexi-disc couplings, installed on a welded steel baseframe, complete with antivibration mountings
- Soundproof enclosure with doors made of 20/10 sheet steel, soundproof material, internal silencer, inox-steel handles and hinges, external fuel tank cap with key, lifting hook
- Industrial painting in RAL 1004 (golden yellow)
- Integrated diesel fuel tank - 170 litres, vegetable oil tank connected external (not included)
- Fuel consumption at 75% of load: approx. 26.6 L/h
- Lead acid batteries: 12 V / 145 Ah
- Dimensions (mm): L= 3300 x W= 1100 x H= 1500 - weight (Kilos): 2090

#### 2. ELECTRIC START PANEL

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

### TECHNICAL DATA

#### 1. EQUIPMENT SPECIFICATION (according ISO 8528/1)

- 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
- Frequency : 50 Hz
- Voltage available to the terminals : 400/230 V

#### 2. ENGINE

- 4 stroke motor - water cooled
- Brand and model : DEUTZ BF6M 1013 EC
- Governor : mechanical
- Max power : 189 hp
- R.P.M. : 1500
- Cylinders : 6
- Displacement : 7146 cc
- Emission standard : Stage 2



#### 3. ALTERNATOR

- Synchronous generator with electronic governor and AVR (Automatic Voltage Regulator)
- Brand and model : MECC-ALTE ECP 34-2L/4 (OR SIMILAR BRAND)
- Poles : 4
- Stator/rotator insulation : class H
- Protection level : IP21
- Continuous power (50 Hz) : 150 kVA