

ETHANOL GENERATOR SET

 Model **Ecogen 23000**

PEAK POWER 25 kVA	CONTINUOUS POWER 23 kVA · 18.4 kW	FUEL Ethanol	FREQUENCY 60 Hz
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GENERAL ELECTRICAL DATA

Peak power	25 kVA	Frequency	60 Hz
Continuous power	23 kVA / 18.4 kW	Power factor	0.8
Phases	Single-phase / Three-phase	Starting	Electric 12 V
Output voltage	Δ 220 / Y 380 V	Rating	Standby (peak 25 · continuous 23 kVA)

ENGINE

Fullas base (parts compatible w/ Branco B4T-35) — Liconic ethanol conversion

Make / base	Fullas (compat. Branco B4T-35)	Max. power	35 hp @ 3600 rpm
Configuration	V-twin, 4-stroke	Rated power	31 hp @ 3600 rpm
Cooling	Air-cooled (forced)	Max. torque	7.1 kgf·m @ 2800 rpm
Displacement	999 cc	Operating speed	3600 rpm
Bore × stroke	90 × 78.5 mm	Block pre-heater	80 W / 50 °C
Aspiration	Naturally aspirated	Oil capacity	2.0 L (w/ filter)
Fuel	Ethanol	Recommended oil	10W30
Fuel system	Liconic EFI — MPFI (no carburetor)	Lubrication	Forced, pump-fed
Compression ratio	13:1	Block / liner	Aluminum / cast-iron liner
Air filter	Industrial type	Engine weight	60 kg
Fuel pump	External, 3 bar		

ALTERNATOR — BRANCO BGM 22.0

Make / model	Branco BGM 22.0	Speed	1800 rpm
Max. power	21.6 kVA / 17.3 kW	Protection rating	IP21
Voltage regulation	AVR	Transmission	Pulleys + belt
Number of poles	4	Belt	B profile, 750 mm

CONTROL PANEL (GENSET CONTROLLER)

Controller	DSE4520 MKII (AMF)	Battery	Lead-acid 12 V / 60 Ah
Communication module	DSE855 — Ethernet / MODBUS TCP	Float charger	12 V / 5 A automatic
Circuit breaker	Steck SDJS-80 · molded case 80 A	Emergency	External stop buttons
Transfer	Automatic mains/generator (AMF)	Sensors	Fuel level · oil level · oil temp.

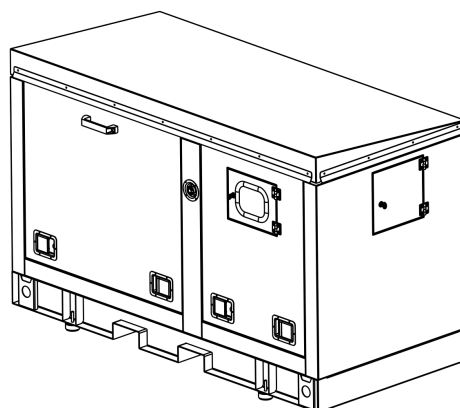
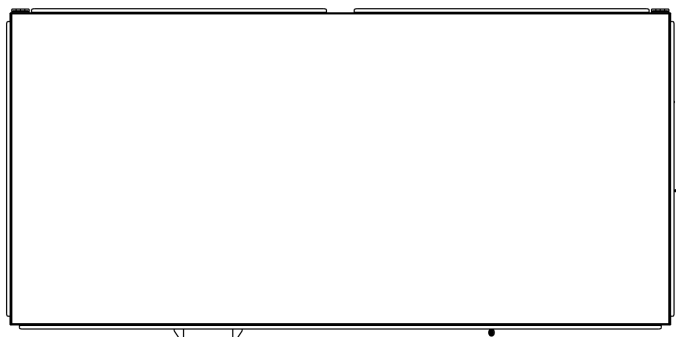
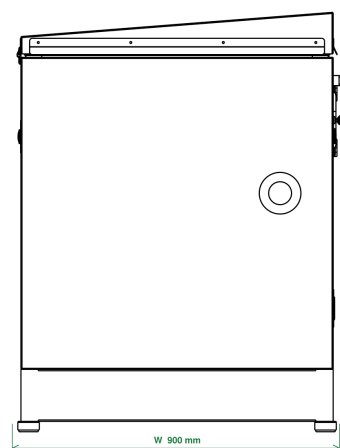
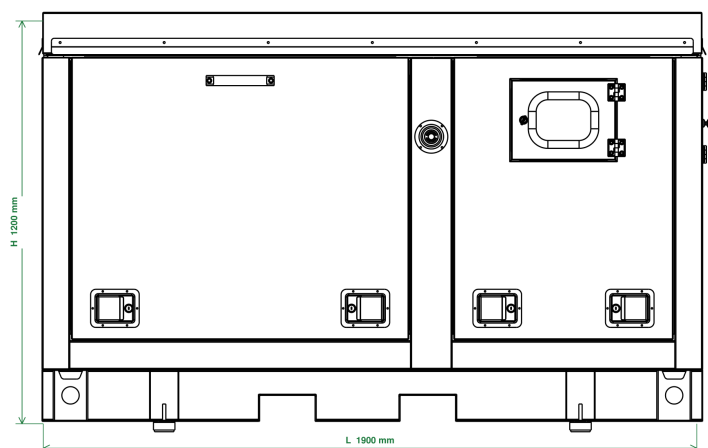
Photo of control panel / DSE4520 MKII controller — to be inserted

CAPACITIES, DIMENSIONS AND PERFORMANCE

Fuel tank capacity	120 L	Dimensions (L × W × H)	1900 × 900 × 1200 mm
Average consumption	16 L/h (at 80% load)	Weight	460 kg
Autonomy	~7.5 h (at 80% load)	Enclosure	Ecosilent (outdoor use)
Noise level	82 dB	Handling	Pallet jack / lifting

DIMENSIONAL

external dimensions in mm



Ecogen 23000 — front, side, top and isometric views.