

INDUSTRIAL GENSET

L 4 Mf

POWER RATING	3000 rpm/50 Hz
Prime	3.3 kVA, 2.6 kW
Standby	3.6 kVA, 2.9 kW

Generator set consisting of engine and alternator mounted on a tubular steel profile frame using anti-vibration pads. Alternator coupled directly to the engine crankshaft via a conical coupling system to obtain a rigid union.

ENGINE

Type.....4-stroke diesel engine
.....with direct injection.

Technical Data

Manufacturer Lombardini
Model 15 LD 315
No. of cylinders.....1
Engine capacity 315 cc
Bore 78 mm
Stroke 66 mm
Compression ratio 20.3:1
Aspiration.....Atmospheric
Engine speed.....3000 rpm
Prime power at 3000 rpm 5.5 HP DIN Nb 6271
Fuel consumption 1.26 ltr/h at 100% load
Fuel tank capacity.....4.3 litres
Approximate running time 3.4 hours without refill
Noise level at 3000 rpm.....75.3 dB (A) at 7metres

Cooling system

Cooled by air forcing fan on flywheel.
Cooling air flow 5 m3/min at 3000 pm

Lubrication system

Forced lubrication via lobe pump. Oil filter.
Oil sump capacity 1,2 litres
Consumption 0.0035 kg/h

Induction system

Natural aspiration via dry air filter, with changeable cartridge.
Combustion air flow 0.4 m3/min

VERSIONS

The **L 4 Mf** may be supplied in the following versions:

- **STATIONARY Version**
- **MOBILE WITHOUT CANOPY**
- **AUTOMATIC.**

Injection system

Injection pump submerged in block with centrifugal governor. Fuel filter.

Electric system

12 V electric starting system. Axial starter motor. 46 A.h. battery. Battery charging alternator. Oil pressure sensor.

Protection system

Visual alarm if oil pressure too low. Optionally, alarm system with automatic engine shutdown if oil pressure too low.

Exhaust system

Exhaust silencer.

ALTERNATOR

Single phase, self-regulating and self-exciting. Self ventilating. Class "H" insulation. All windings are impregnated in epoxy resin varnish, making them resistant to acids and oil. Voltage is maintained within +/- 6%. Manufactured to CEI 2-3, IEC 34.1, VDE 0530, BS 4999-5000, NF 51100.

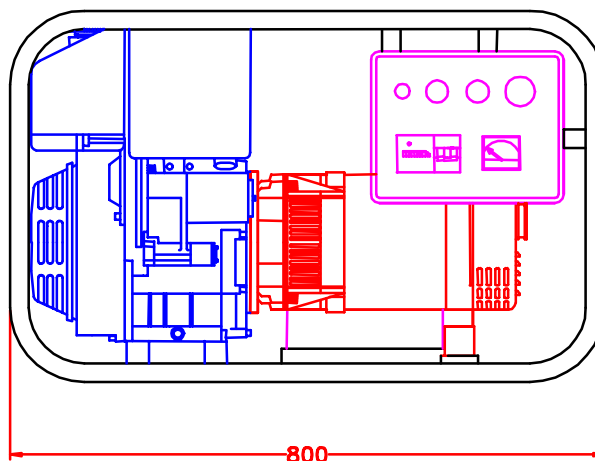
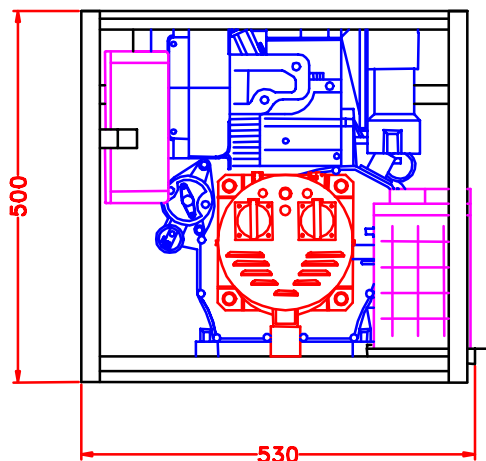
Manufacturer Mecc Alte
Model AR1 D
Power rating.....4.1 kVA
Voltage(*).....220 V Single phase
Frequency.....50 Hz
Speed 3000 rpm
Regulation.....Condenser with brushes
Nominal current 10 A

(*) Other voltages: PLEASE CONSULT.

STATIONARY Version

L 4 MF

Mounted on tubular frame with anti-vibration pads.



Control panel

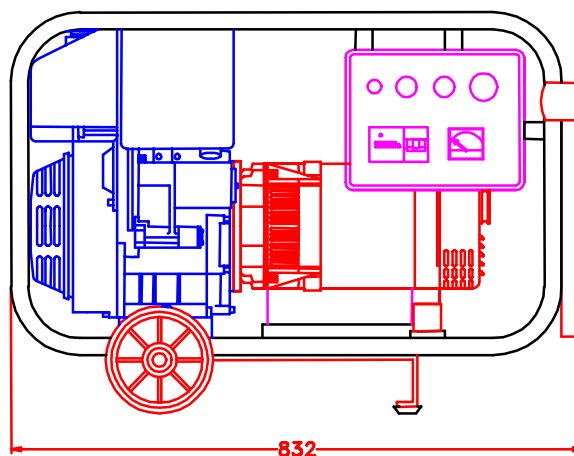
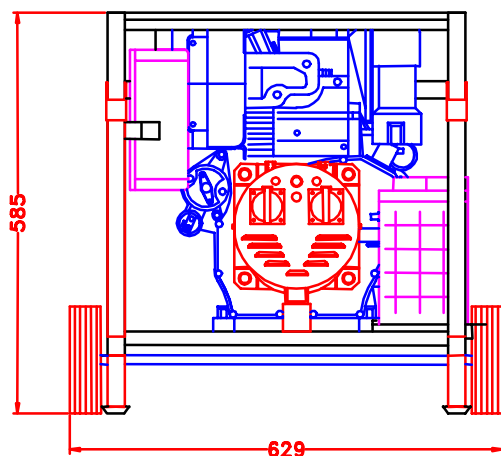
Control panel features:

- Thermo-magnetic circuit breaker.
- Voltmeter.
- Hours run meter.
- On light
- Battery charge indicator lamp.
- Oil pressure indicator lamp.
- Ignition key.
- 2 single phase sockets (mounted on alternator)
- Includes battery
- Shutdown using manual choke.

MOBILE Version without Canopy

L 4 MF

In this version, the set is supplied on a tubular frame with wheels and handles.



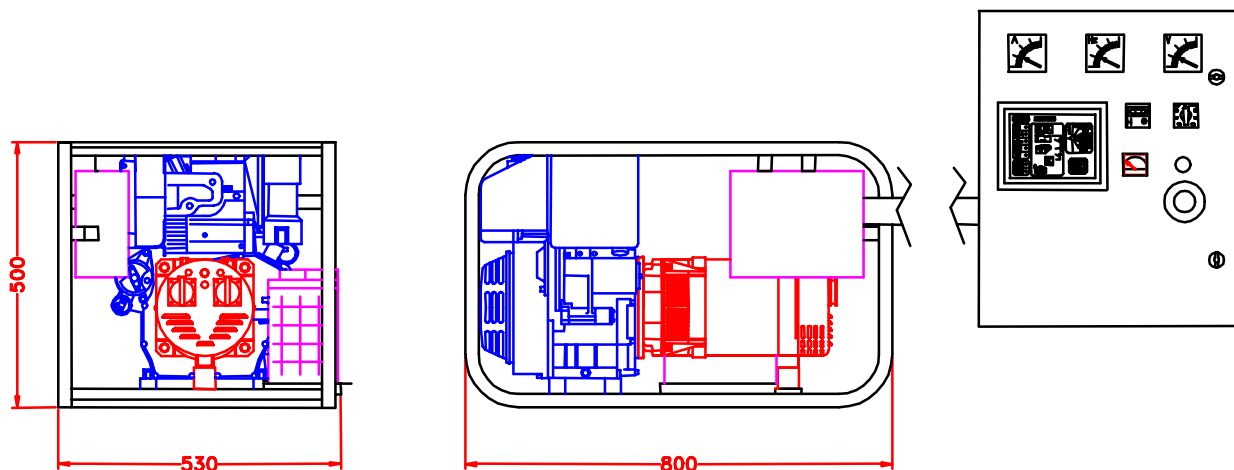
Control panel

Control panel features:

- Thermo-magnetic circuit breaker.
- Voltmeter.
- Hours run meter.
- On light
- Battery charge indicator lamp.
- Oil pressure indicator lamp.
- Ignition key.
- 2 single phase sockets (mounted on alternator)
- Battery Included
- Shutdown using manual choke

AUTOMATIC Version L4 MF-N

On tubular frame with automatic panel for start-up on mains failure.



ELECTRICAL PANEL

Mounted in metal cabinet with IP 54 protection and supplied loose for wall mounting. Includes monitoring and control, measuring and handling and changeover systems.

Monitoring and control system

- Automatically monitors the mains, and if the mains fails connects the consumers to the generator set via contactors which are mechanically and electronically activated. When the mains is restored, the load is reconnected to the mains, the set idles and then stops.
- No. of start-up attempts: 3
- Selector switch for Disconnect, Automatic Service, Manual Service and Test.
- The generator set may be set to run manually or automatically. When running manually, start-up, shutdown and changeover are performed using a selector switch.

Measuring and handling equipment

Consists of the following items:

- | | |
|--|--|
| <ul style="list-style-type: none">• 1 Ammeter• 1 Voltmeter• 1 Mains-generator set voltmeter selector switch.• 1 Frequency meter• 1 Battery voltmeter.• Off button.• Battery maintenance system.• Battery indicator light.• Battery charge light.• Large emergency stop push button. | <ul style="list-style-type: none">• Audible and visual alarm for low fuel level. (Shown as "ALARMS NO STOP").• Alarm system disconnecting generator, shutdown, audible alarm and visual signal for:<ul style="list-style-type: none">• Start-up failure• Low oil pressure• High water/engine body temperature• Overload• Protection fuse• Thermo-magnetic circuit breaker. |
|--|--|

TRANSFER SYSTEM

Made up of two mechanically and electrically interlocking contactors. WORKING VOLTAGE: 220 V