

ATEX Portable Air Compressor

Category 3G

Gali

COMTEXATL100-CA
17/09/2024 Rev. b



PRODUCT DESCRIPTION

GALI has developed a new portable air compressor under the ATEX directive 2014/34/UE-ATEX.

This COMTEXATL100 is a single-stage, oil-injected screw compressor powered by a liquid cooled Kubota engine capable to deliver 190CFM and with an effective air working pressure of 7bar.

The ATEX protection is integrated inside the steel canopy to keep the design within a contained dimensions and protected against harsh weather conditions, key parameters for a portable unit.

This protection guarantees that the compressor can work in hazardous areas without ignition risk, with an ambient temperature range between -20°C to +40°C.

MODEL DATA				
Model	Compressor type	Engine type	ATEX Marking	Ambient temp. range
COMTEXATL100	Single stage screw compressor	4-cylinder Turbo Diesel	 II 3G IIB T3 Gc	T.amb = -20°C +40°C

STANDARD EQUIPMENT

Diesel Engine. Inlet and exhaust ATEX explosion-proof protected integrating an inlet flame arrestor and a catalytic exhaust flame arrestor. Inlet incorporates an electric ASOV for emergency shut off. Engine also includes oil vapors flame arrestor and exhaust spark arrestor.

Sensors and actuators. All sensors and actuators have been protected through intrinsic safety or encapsulation.

Mounting. Steel canopy with drip pan and anti-vibration mounts for the engine/compressor.

Cooling system. Dry insulated turbocharger, water-cooled exhaust manifold and exhaust conductions. Added new gas-cooler to assure exhaust gas temperature below 200°C. Refrigeration capacities of the system are increased to achieve new refrigeration power.

Starting system. Added a 12V flame-proof electric starter with a lead-acid battery.

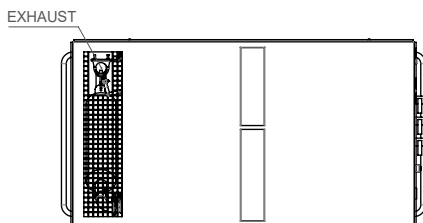
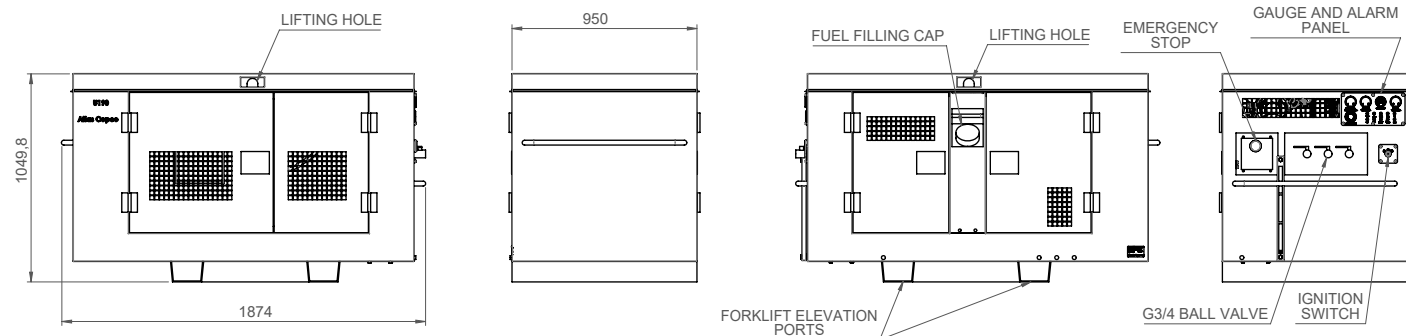
Electrical system. Negative isolated ground electric system. Installed a new flame-proof electrical enclosure governing all the securities and maneuvers of the engine along with a new flame-proof alternator.

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TECHNICAL DATA

Model	COMTEXATL100
Normal effective working pressure (bar)	7
Minimum effective receiver pressure (bar)	2
Maximum effective receiver pressure (unloaded) (bar)	8,7
Free air delivery (m³/mi)	5,4
Rated Flow rate (cfm)	190
Compressed air temperature at outlet valve (°C)	90
Max ambient temperature at sea level (°C)	40
Min starting temperature (°C)	-20
Compression stages	1
Fuel consumption @ 100% FAD (kg/h)	8,5
Specific fuel consumption at 100% FAD (g/m³)	28,73
Fuel tank capacity (l)	62
Engine	Kubota V1505T
Number of cylinders	4
Displacement (l)	1,498
Engine Power at normal shaft speed @ SAE J 1995 (kW)	32,5
Dimensions (mm)	1870 x 950 x 1040
Weight dry/wet (without fuel) (kg)	915/945

TECHNICAL DATA



GAUGE AND ALARM PANEL

