



MOBILAIR® M 250

Portable Compressor

With the world-renowned SIGMA PROFILE

Flow rate 18.5 to 26.3 m³/min (655 – 930 cfm)

MOBILAIR® M 250

The powerful combination of the highly efficient KAESER SIGMA PROFILE rotary screw airend and an energy-saving Mercedes-Benz engine provides impressive performance and fuel efficiency. Together with other innovative features, this compact powerhouse is yet another dependable and efficient compressed air partner from KAESER KOMPRESSOREN.

Exceptional versatility

The MOBILAIR M 250 can be specifically tailored to meet the needs of the relevant application thanks to the wide range of optional compressed air treatment components available. Moreover, the selection of road and construction site chassis with run-on or compressed air brakes with ABS, as well as stationary models on skids or machine mounts, enables the M 250 to be perfectly suited to meet the specific application's needs.

Made in Germany

MOBILAIR portable compressors are manufactured at KAESER's headquarters located in Coburg, Northern Bavaria. Equipped with the very latest technology, the all-new portable compressor plant boasts TÜV (German Technical Inspection Agency) certified sound testing facilities for free-field sound level measurement, an advanced powder coating installation and highly efficient production logistics.

Tough performer

The M 250 is well-equipped for continuous construction site duty under the harshest of conditions. Even the standard version is capable of operating in an ambient temperature range from -10° C to +50° C. The optional low-temperature version features engine coolant preheating, and synthetic cooling fluid is used for the airend. For the high altitude version, the SIGMA CONTROL MOBIL compressor controller automatically ensures reliable start up and operation regardless of whether the unit is operating at sea level or at 5500 m above sea level.

Low-emissions zone

The M 250 is available as a Stage IIIA (Tier 3) compliant version which can be combined with the 3.5 t chassis with run-on brake. For added versatility, another version is also available with a Mercedes-Benz drive engine certified in accordance with Stage IV (Tier 4 final), including a SCR catalytic converter and AdBlue technology.



Quality compressed air – all the time, every time



Simple to operate

Thanks to the SIGMA CONTROL MOBIL and intuitive operation, only three buttons are required to operate the compressor. Furthermore, the monitoring system can automatically shut the system down as required. The control panel is protected by a durable metal cover.



Energy-saving fan

Fan speed is precisely adjusted via a viscous clutch according to engine coolant, inlet air and airend discharge air temperatures via the SIGMA CONTROL MOBIL controller. This cuts fuel consumption by up to five percent.



SIGMA PROFILE airend

At the heart of every M 250 system lies a premium quality airend featuring KAESER's SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more air while using less energy.



Excellent accessibility, optimum serviceability

The compressor's large enclosure doors provide excellent component accessibility for unrivalled ease of maintenance. Service and maintenance work can therefore be carried out quickly and effectively, thereby ensuring maximum efficiency and compressed air availability.



Outstanding endurance

With a capacity of 250 or 350 litres of fuel depending on the selected chassis option, the two-part fuel tank can be filled from either side of the unit. All stationary versions come with a 350-litre on-board tank.



A powerful team

M 250 compressors with optional automatic start-stop functionality are the perfect team players for operation in compressor stations that are completely independent of the power supply, or are used as an automatic standby in the event of power outages.

Available equipment

Sealed floor pan

The sealed floor pan immediately catches all liquids and therefore prevents potential soil contamination in environmentally sensitive zones. All drainage holes are sealed with screw plugs.

Pressure variants

Models are available in various pressure versions ranging from 8.6 to 14 bar. Pressure can easily be adjusted in steps of 0.5 bar from 6.5 bar to 0.5 bar above nominal pressure using the SIGMA CONTROL MOBIL's arrow keys. The pressure adjustment feature can also be electronically disabled to prevent tampering.

Compressed air treatment

The optional compressed air aftercooler cools air to 7°C above ambient temperature. The condensate is removed via a flow-optimised axial centrifugal separator and is subsequently evaporated using the hot exhaust gases from the engine. A combination filter can be installed for

applications requiring technically oil-free compressed air. Please refer to table below for further treatment options.

Suitable for refinery use

The standard exhaust gas treatment for compressor models with a Stage IV (Tier 4 Final) engine fulfils the role of a spark arrestor. A certified spark arrestor is optionally available for the M 250 equipped with the IIIA engine (Tier 3). The engine shut-off valve automatically shuts the machine down upon intake of combustible gases.

Industrie 4.0 @ MOBILAIR

The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, fuel level, service alerts, location and machine loading. The system optimises service processes by sending notifications regarding e.g. fault causes and upcoming scheduled maintenance measures.

Technical specifications

Model	Compressor				6-cylinder diesel engine (water-cooled)				Complete system				
	Flow rate		Gauge working pressure		Make	Type	Engine rated power	Speed at full load	Fuel tank capacity	Operational weight	Sound power level ³⁾	Sound pressure level ⁴⁾	Compressed air outlet
	m³/min	cfm	bar	PSI									
M 250 Stage IIIA Tier 3	26.3	930	8.6	125	Mercedes Benz	OM926LA	210	1800	250/350	3390 ¹⁾	Only for export outside the EU	1 x G2 3 x G ²⁾	
	25.0	885	10	145									
	22.5	795	12	175									
	20.0	705	14	200									
M 250 Stage IV Tier 4 final	25.4	900	8.6	125	Mercedes Benz	OM936LA with SCR-Cat	202	1800	250/350	3550 ²⁾	71	≤ 100	1 x G2 3 x G ²⁾
	23.5	830	10	145									
	21.0	740	12	175									
	18.5	655	14	200									

¹⁾ Weight specifications apply to standard unit with 3.5 tonne chassis

²⁾ Weight specifications apply to standard unit with 4 tonne chassis

³⁾ Guaranteed sound power level in accordance with Directive 2000/14/EC

⁴⁾ Measuring surface sound pressure level as per ISO3744 (r=10m)

Compressed air treatment systems

System A - Cool - Condensate-free		Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporarily replacing stationary compressors
System F - Cool - Condensate-free - Filtered		Cool, condensate-free compressed air (100 % saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations
System B - Warmed - Dried		Dried compressed air, warmed to at least 20 °C, for working at sub-zero temperatures and with longer air lines
System G - Warmed - Dried - Filtered		Dried compressed air, warmed to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations
Fresh air As partial flow	<p>Does not provide protection against carbon monoxide (CO) or other noxious gases</p>	Odour-free fresh air connected via a separate quick-release coupling (Only in combination with F or G systems)

Dimensions

Version: Height adjustable	<p>5330 - 5850</p>	<p>1920</p> <p>2270</p>
Version: Fixed	<p>4820 - 5340</p>	<p>1920</p> <p>2270</p>
Version: Skids	<p>4225</p>	<p>1980</p> <p>2120</p>
Version: Stationary	<p>3950</p>	<p>1950</p> <p>1920</p>

The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times and provides maximum availability.



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