



MOBILAIR® M 235

Portable Compressor

With the world-renowned SIGMA PROFILE

Flow rate 18.1 to 23.3 m³/min (640 – 825 cfm)

MOBILAIR M235

The powerful combination of the highly efficient KAESER SIGMA PROFILE rotary screw airend and an energy-saving CUMMINS engine provides impressive performance and fuel efficiency. The MOBILAIR M235 is designed for continuous building site operation under tough weather conditions and can be specifically tailored to meet the needs of the task at hand. Thanks to the wide range of optional compressed air treatment components available, it delivers compressed air at the required quality at all times.

Flexible application

The building site chassis with steerable axle and foldable tow bar, combined with the parking brake, ensures secure, space-saving positioning of the compressor. Also on board are a recessed lifting eye and fork-lift pockets. For stationary applications, the M235 can be supplied as a skid-mounted version or with machine mounts.

Equipped for tough conditions

The MOBILAIR M235 dependably delivers the required compressed air at all times – even under such extreme conditions as altitudes of 3000m above sea level or ambient temperatures up to 50 °C. The ability to switch over manually from idling to full load operation with SIGMA CONTROL SMART ensures a reliable, gentle start when operating the unit in cold ambient conditions. The standard units have components rated for cold starts as low as -10 °C. A version for lower ambient temperatures is also available.



Compact body

The enclosure components ensure long-term corrosion protection and value retention thanks to high quality zinc priming and tough powder coating, optionally in custom colours. For maximum maintenance friendliness, the large enclosure doors provide easy access to the well-designed interior. Service and maintenance work can therefore be carried out quickly and effectively, thereby ensuring maximum efficiency and compressed air availability.

Made in Germany

The many MOBILAIR portable compressor product lines are manufactured at KAESER's headquarters located in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant includes a TÜV (German Technical Inspection Agency) certified sound testing area for free-field sound level measurement, a complete powder-coating facility and efficient manufacturing logistics.

SIGMA PROFILE airend

At the heart of every M235 system is a premium quality airend featuring KAESER's energy-saving SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more air for less energy consumption. Power is transmitted from the engine via a transmission.

Efficient and durable



Efficient KAESER quality – in every detail



Simple to operate

The SIGMA CONTROL SMART controller assures exceptionally intuitive operation, as the compressor can be operated with just three buttons. Furthermore, the monitoring system can automatically shut the compressor down if necessary or report required maintenance. The control panel is protected by a durable metal cover.



Safety air filters as standard

Optimised design and separate air filters, including the safety element for the engine and compressor, considerably enhance reliability and service life. The filters can be changed on-site quickly and easily as required.



Cooled compressed air

The compressed air is cooled to 7 °C above ambient temperature. Installed at an angle, the compressed air aftercooler ensures frost-proof performance even at the coldest times of the year. The condensate is dependably removed via a flow-optimised axial centrifugal separator and is subsequently evaporated with the environmentally friendly use of hot exhaust gases from the engine.



Technically oil-free compressed air

A microfilter combination can be configured for applications requiring technically oil-free compressed air, e.g. line flushing or concrete remediation.

(Please refer to the compressed air treatment table on page 6)



Impressive performance

When filled, the tank carries sufficient fuel for an entire work shift without the need for refuelling. For ease of operation, the fuel level can be seen at a glance via the analogue fuel gauge; an automatic shut-down feature is activated when the fuel level is too low. A pre-warning from the SIGMA CONTROL SMART provides additional peace of mind. A stainless steel tank is optionally available instead of the transparent plastic fuel tank.



Safe workplace

The ease of access for setting the powerful parking brake and the fold-up towbar permit safe and space-saving set-up or storage of the compressor.

Available equipment

Pressure variants

Models are available in various pressure versions ranging from 8.6 to 14 bar. Pressure can be reduced easily in steps of 0.5 bar down to 6 bar using the SIGMA CONTROL SMART's arrow keys to adapt to the specific work process. The pressure adjustment feature can also be electronically disabled to prevent unauthorised adjustment of settings.

Industrie 4.0 @ MOBILAIR

The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, fuel tank fill level, service alerts, location and machine duty cycle. The system optimises service processes, for example by sending information on the causes of faults and early notification of scheduled maintenance measures.



Refinery use

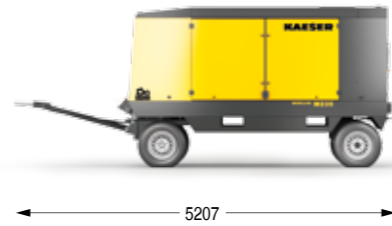
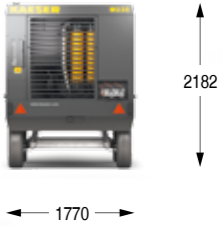




The M235 is available with a certified spark arrestor for refinery applications. In addition, the engine shut-off valve automatically shuts down the unit upon intake of combustible gases to ensure maximum safety.

Technical specifications

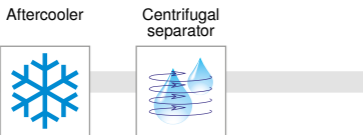
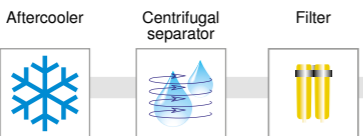
Model	Compressor				6-cylinder diesel engine (water-cooled)				Complete system		
	Flow rate		Gauge working pressure		Make	Type	Engine rated power	Speed at full load	Fuel tank capacity	Operational weight	Compressed air outlet
	m ³ /min	cfm	bar	PSI							
M235	23.3 22.6 19.8 18.1	825 800 700 640	8.6 10 12 14	125 145 175 200	Cummins	QSB 6.7	194	2000	450	3230	1 x G2; 3 x G¾ or 2 x G2; 1 x G¾

¹⁾ Weight specifications for standard system without compressed air treatment

Dimensions

Version: Height adjustable		
Version: Skid-mounted		
Version: Stationary		

Compressed air treatment variants

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

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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