



MOBILAIR M 59

Portable Compressor

With the world-renowned SIGMA PROFILE^{⚙️}

Flow rate from 3.8 to 5.5 m³/min (135 – 195 cfm)

MOBILAIR M 59

Setting the standard in the 5-m³ class

Rugged and dependable, the powerful combination of a highly efficient KAESER rotary screw airend featuring the energy-saving SIGMA PROFILE and an environmentally friendly engine – certified in accordance with EU Stage V – delivers exceptional performance and fuel economy with lowest possible emissions. Furthermore, versions equipped with a roto-moulded polyethylene enclosure show their true strength in adverse operating conditions thanks to their impressive impact resistance. Using aluminium components, the lightweight version of the M 59 is no less robust, yet weighs in at less than 750 kg, making it especially versatile when it comes to transportation. Both versions, however, share a core characteristic – absolute operational flexibility thanks to efficient pV Control (pressure-volume control).

Exceptionally versatile

These versatile compressors can be perfectly tailored to meet the specific needs of the individual application, thanks to a wide range of optional treatment components that always deliver the required compressed air quality. The unbraked, lightweight version constructed from aluminium is particularly versatile: since it weighs less than 750 kg, no special trailer licence is required in order to tow it. For units equipped with a PE enclosure, there is a selection of available chassis versions with overrun brake. They can also be specified as stationary versions fitted with skids or machine feet, making these portable machines the perfect choice for any operating location.

Durable and resilient

The MOBILAIR M 59 is well equipped for continuous construction site duty, in spite of the harshest conditions. Even standard versions are capable of operating in ambient temperatures ranging from -10 °C to +45 °C. The optional low-temperature version features engine coolant preheating, whilst synthetic cooling fluid is used for the compressor.

Made in Germany

The various ranges of MOBILAIR portable compressor are all manufactured at KAESER's headquarters in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts state-of-the-art equipment, including a TÜV-certified sound testing area for free-field sound level measurement, a facility for high-performance, high-quality powder coating, and efficient manufacturing logistics.

SIGMA PROFILE airend

At the heart of every MOBILAIR system lies a premium-quality airend featuring KAESER's energy-saving SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more compressed air for less energy.

Typical applications



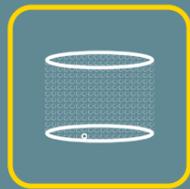
Construction hammers



Pneumatic spades



Cable blowing



Bubble curtains



Blowing out



Sewer robots



Take flight with flexible performance



4 Special PE colours

The corrosion- and scratch-proof, roto-moulded polyethylene enclosure is also available in the following special colours: red, green, blue, orange, white. Other colours are available upon request.

5 Service-friendly

MOBILAIR compressors make maintenance simple. All service points are conveniently accessible via two large flaps in the bodywork. KAESER also provides tailored maintenance contracts to meet your specific needs.

6 Oil separation with spin-on cartridges

The MOBILAIR M59 features spin-on cartridges for the oil separator tank, enabling fast and hassle-free maintenance. This quick-change capability ensures simple and cost-effective servicing.



1 SIGMA CONTROL SMART

Using state-of-the-art electronic engine management, this advanced compressor controller ensures optimised compressed air availability, fuel efficiency and exhaust air management. Functions include an operating mode display and an intuitive user interface, as well as system monitoring and diagnostics.

2 Suitable for refinery use

To ensure safe operation in refineries, portable compressors are equipped with a standard spark arrestor and an engine shut-off valve, which automatically shuts the machine down upon intake of combustible gases.

3 Safe and easy to transport

Regardless of the destination, safety is KAESER's key priority when it comes to transporting the M59. These mobile all-rounders are equipped with lifting eyes as standard, whilst the optional forklift pockets make transportation even more convenient.

7 Perfect generator control

The M 59 is available with the option of either an 8.5 or a 13 kVA generator. Ensuring perfect interplay with the engine management system, the compressor controller delivers maximum compressed air availability relative to power demand.

8 Anti-Frost Control

Specially developed by KAESER for portable compressors, the Anti-Frost Control automatically adjusts operating temperature in relation to ambient. In combination with the optional tool lubricator, this feature prevents air tools from freezing up and significantly extends their service life.

9 Integrated compressed air treatment

The compressor always adapts perfectly to its task in accordance with the application, delivering demand-oriented compressed air quality thanks to the wide range of optional treatment components.

TELEMATICS @ MOBILAIR

TELEMATICS condition monitoring brings Industrie 4.0 to the construction site. KAESER equips its portable compressors with a built-in modem, connecting them to the TELEMATICS portal. The integrated compressor controller determines and processes all operating data, which it subsequently forwards to the TELEMATICS portal. Central monitoring and processing of operating messages is performed in the dashboard. You can therefore view operating data, current messages, and system location online.

Compressed air treatment variants

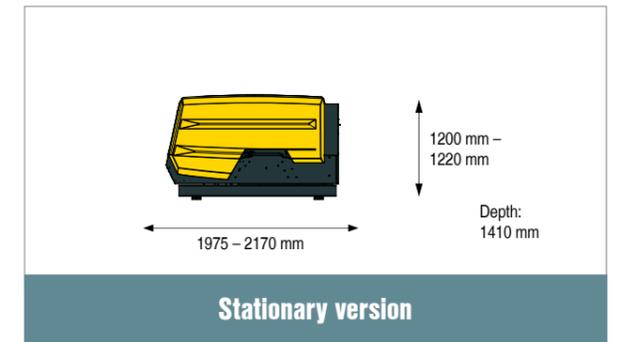
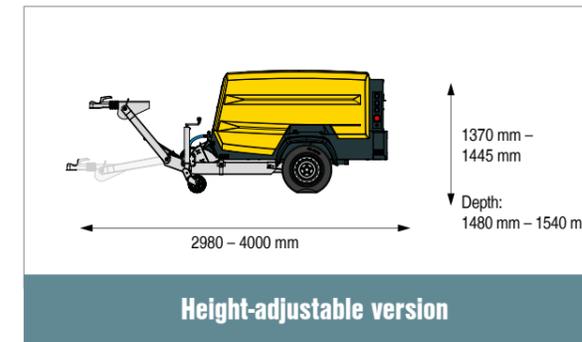
System	Components	Description
System A - Cool - Condensate-free	Compressed air aftercooler, Condensate separator	Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporary replacement of stationary compressors
System F - Cool - Condensate-free - Filtered	Compressed air aftercooler, Condensate separator, Filter	Cool, condensate-free compressed air (100 % saturated), free from dirt particles and technically oil-free as per applicable regulations (ZTV-ING)
System B - Warmed - Dried	Compressed air aftercooler, Condensate separator, Reheating	Dried compressed air, warmed to min. 20 °C, for working at sub-zero temperatures and with long air lines
System G - Warmed - Dried - Filtered	Compressed air aftercooler, Condensate separator, Filter, Reheating	Dried compressed air, warmed to min. 20 °C, free from dirt particles and technically oil-free as per applicable regulations (ZTV-ING)

Technical data

Model	Compressor				Diesel engine (water-cooled)			System				
	Flow rate		Working pressure		Make	Model	Rated engine power	Fuel tank capacity	Operating weight	Sound power level ¹⁾	Sound pressure level ²⁾	Compressed air outlet ³⁾
	m ³ /min	cfm	bar	PSI			kW	l	kg	dB(A)	dB(A)	
M 59	5.5 4.7	195 165	10 14	145 200	Hatz	3H50TICD	43.5	60	740	≤ 98	69	2 x G ^{3/4} 1 x G1
M 59 PE	5.5 4.7	195 165	10 14	145 200								

¹⁾ Guaranteed sound power level LWA as per directive 2000/14/EC
²⁾ Surface sound pressure level LpA as per ISO 3744 (r = 10 m)
³⁾ G^{1/2}" = Connection thread size – Hoses with G^{3/4}" claw couplings can be connected

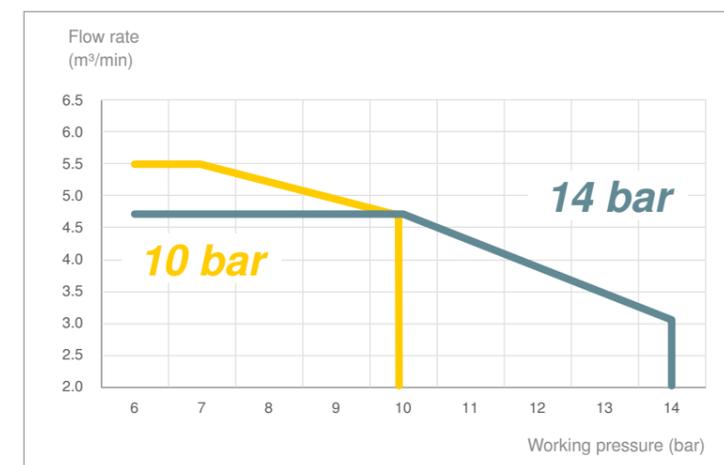
Dimensions



Note: Specifications may vary depending on version.

KAESER KOMPRESSOREN – Sustainability guaranteed

To learn more about the new standards KAESER has established in reliability, efficiency and sustainability, visit us at www.kaeser.de/ressourcenschonende-produktentwicklung



pV Control

Maximum pressure (p) can be adjusted in steps of 0.1 bar. pV Control directly influences the maximum possible flow rate (V) and therefore offers even greater variability in terms of pressure and flow rate. This feature is particularly beneficial when working with longer hose lines.

More compressed air for less energy

The world is our home

As one of the world's largest manufacturers of compressors, blowers and compressed air systems, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of wholly owned subsidiaries and authorised distribution partners in over 140 countries.

By offering innovative, efficient and reliable products and services, KAESER KOMPRESSOREN's experienced consultants and engineers work in close partnership with customers to enhance their competitive edge and to develop progressive system concepts that continuously push the boundaries of performance and technology. Moreover, decades of knowledge and expertise from this industry-leading systems provider are made available to each and every customer via the KAESER group's advanced global IT network.

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



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