

HPC

Compressed
Air Systems

KAESER
COMPRESSORS®



MOBILAIR® M 125

Portable Compressor

With the world-renowned SIGMA PROFILE^{☆☆}

Max. flow rate 11.5 m³/min (405 cfm)

www.kaeser.com

MOBILAIR® M 125

The powerful combination of a high-efficiency KAESER rotary screw airend featuring SIGMA PROFILE rotors and a fuel-saving Deutz engine, certified in accordance with EU Directive 2016/1628, Stage V and EPA Tier 4 Final, ensures a dependable supply of quality, clean compressed air wherever it is needed – and not just in low emission zones. Moreover, the M 125 is fitted with a diesel particulate filter that meets the stringent requirements of the Swiss Clean Air Act.

Thanks to pV Control, the **M 125** is a powerful and efficient complete package. Adjustable in steps of 0.1 bar, maximum pressure (p) directly influences maximum flow rate (V). The M 125 can therefore deliver pressures between 5 and 14.5 bar.

Versatile

These versatile portable compressors can be perfectly adapted to meet the needs of the specific application. Thanks to a wide range of optional compressed air treatment components, they are always capable of providing the required compressed air quality. Moreover, the choice of various chassis configurations with overrun brake or stationary versions on skids / machine feet means that these compressors can be perfectly adapted to suit any work environment.

Safe and simple

An electronically controlled start-up function, coupled with the ability to switch over manually from unloaded start to full load operation, ensures a reliable start when operating in cold ambient conditions. Furthermore, the monitoring system can automatically shut down the compressor if needed.

Durable

The MOBILAIR M 125 is well equipped for continuous construction site duty, even under the harshest of conditions. The standard version, for example, is capable of operating in ambient temperatures from -10°C to +45°C. The optional low-temperature version features engine coolant preheating, whilst synthetic cooling fluid is used in the airend.

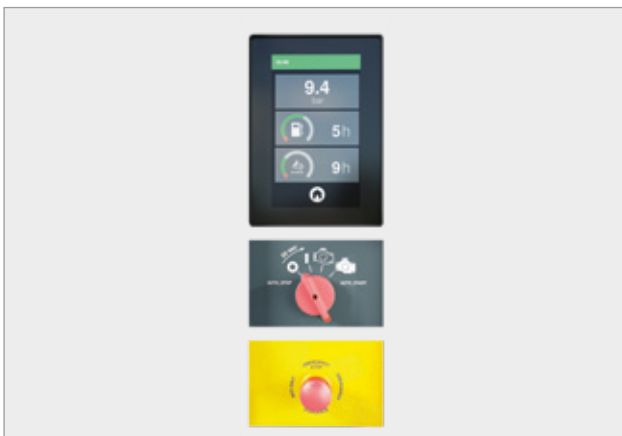
Made in Germany

The various MOBILAIR portable compressor ranges 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 premium powder-coating facility and efficient manufacturing logistics.

New operating concept

KAESER placed special emphasis on user-friendliness when designing the operating concept for the MOBILAIR M 125. This focus resulted in a simple and intuitive user interface featuring a single rotary switch for start-stop operation.

The pressure can be adjusted just as easily on the touch display – even when wearing unwieldy work gloves. The pV Control can therefore be perfectly tailored for every application and the easy-to-read touch display provides a clear overview of all operating data.



Meticulous design for perfect performance



Industrie 4.0 @ MOBILAIR

With the TELEMATICS 36 option, Industrie 4.0 comes to the construction site. Following approval of the data usage contract, KAESER equips every M 125 ex works – at no extra cost – with a modem and connects it to the telematics portal.

The best part: KAESER pays the portal fees for 36 months. You can therefore view operating data, current messages and system location online.

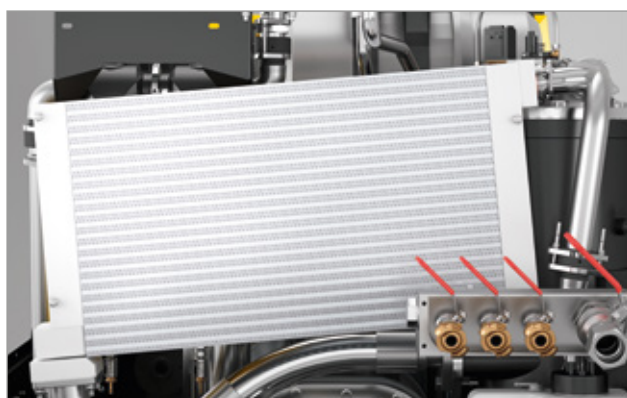
Through anonymous evaluation of the machine data by KAESER, you help to make system operation and usage even more efficient and reliable.



Service-friendly

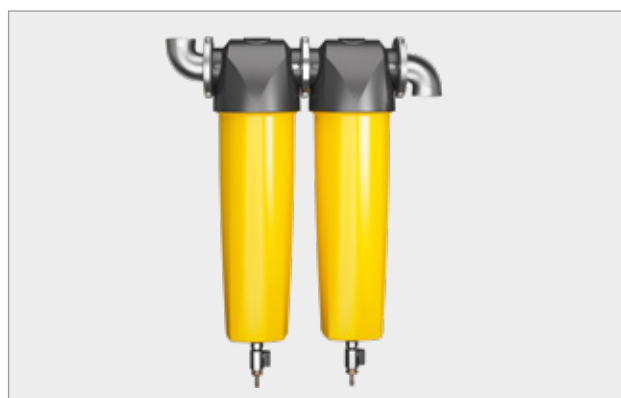
Highly versatile

Easy access



Condensate-free compressed air

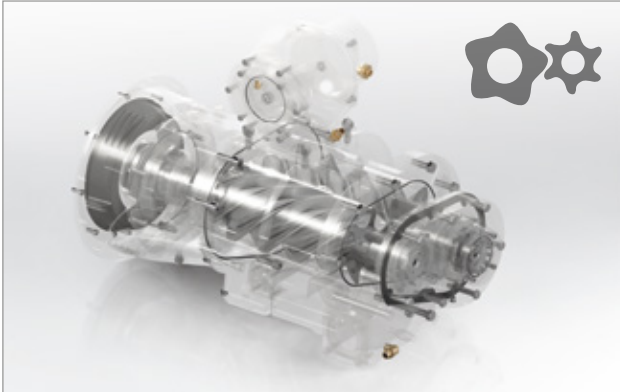
The optional aftercooler, installed at an angle so that condensate is able to drain away easily, cools the compressed air down to 7°C above ambient temperature, whilst the hot exhaust gases from the engine are also subsequently used to aid condensate evaporation. Versions with the additional option of compressed air reheating allow infinite adjustment of the desired temperature.



Technically oil-free compressed air

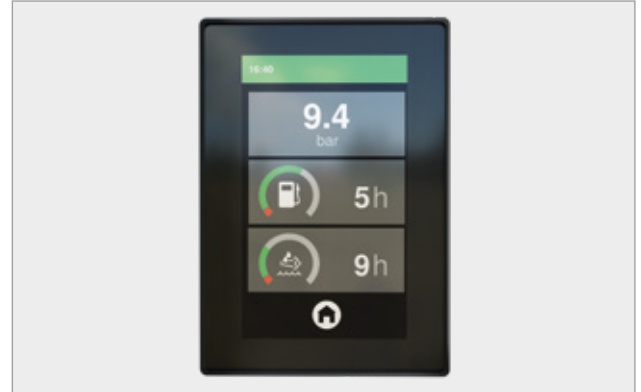
Depending on the specific application, the M 125 can also be equipped with a microfilter combination for technically oil-free compressed air, such as required for blasting applications, as per German ZTV-ING regulations for example. This option delivers compressed air with an oil aerosol content of less than 0.01 mg/m³, as per the requirements of ISO 8573-1.

KAESER quality and efficiency in every detail



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, whilst the energy-saving fan in the M 125 helps deliver up to 5 % additional fuel savings.



SIGMA CONTROL MOBIL 2

As the latest controller to feature touch display technology, the SIGMA CONTROL MOBIL 2 allows convenient operating pressure adjustment even when wearing work gloves. The easy-to-read display provides a clear overview of all operating data.

pV Control: Pressure and flow rate flexibility

Set max. pressure (p) influences max. flow rate (V).



Available equipment

Closed floor pan

The closed floor pan immediately catches any liquids, thereby preventing ground contamination in environmentally sensitive zones. All drainage openings are sealed with screw plugs. Maintenance drains lead to the exterior of the unit.

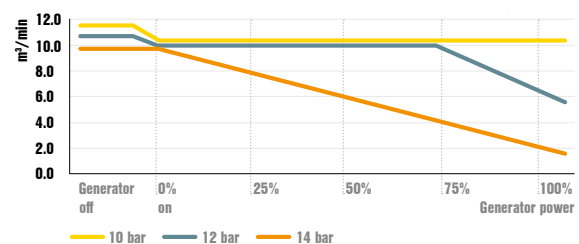
Refinery version

The M 125 is available with an engine shut-off valve for use in refinery applications, which automatically switches the machine off upon intake of combustible gases. The exhaust gas after-treatment system, fitted as standard, acts as a spark arrestor.

13 kVA generator

Providing maximum compressed air availability for any selected pressure setting in accordance with power demand, the M 125 is a truly versatile powerhouse when it comes to compressed air and power generation.

Flow rate in generator mode



Compressed air treatment variants

System A - Cool - Condensate-free	 Compressed air after-cooler Centrifugal 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 after-cooler Centrifugal separator Filter	Cool, condensate-free compressed air (100% saturated), free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)
System B - Warmed - Dried	 Compressed air after-cooler Centrifugal separator Reheating	Dried compressed air, reheated to a min. of 20°C, for working at sub-zero temperatures and with longer compressed air lines
System G - Warmed - Dried - Filtered	 Compressed air after-cooler Centrifugal separator Filter Reheating	Dried compressed air, reheated to a min. of 20°C, free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)
Fresh air As partial flow	 Activated carbon filter Does not provide protection from carbon monoxide (CO) or other noxious gases.	Odour-free fresh air connected via a separate quick-release coupling (Only in combination with F or G systems)

Technical specifications

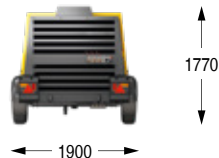
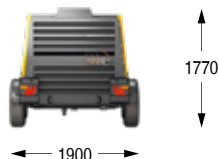
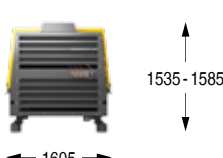
Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Max. flow rate		Working pressure		Make	Model	Rated engine power	Speed at full load	Fuel/AdBlue tank capacity	Operating weight ¹⁾	Sound power level ²⁾	Sound pressure level ³⁾	Compressed air outlet
	m ³ /min	cfm	bar	PSI			kW	rpm	l	kg	L _{WA} dB(A)	L _{pA} dB(A)	
M125	11.5 - 9.7	405 - 345	10 - 14	145 - 200	Deutz	TCD 4.1 L04	105	2200 - 1950	170 / 10	2080	99	70	3 x G ¾ 1 x G 1½

¹⁾ Weight specifications apply to standard unit including chassis with overrun brake and height-adjustable tow bar

²⁾ Guaranteed sound power level L_{WA} as per 2000/14/EC

³⁾ Measured surface sound pressure level L_{pA} as per ISO 3744 (r = 10 m)

Dimensions

Version: Height-adjustable tow bar		
Version: Fixed tow bar		
Version: Skid-mounted		
Version: Stationary		

The world is our home

As one of the world's largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

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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