



MOBILAIR® M 125

Portable Compressor

With the world-renowned SIGMA PROFILE

Max. flow rate 11.5 m³/min (405 cfm)

MOBILAIR® M 125

The powerful combination of a high efficiency KAESER SIGMA PROFILE rotary screw airend and a fuel-saving Deutz engine certified in accordance with EC Directive 2004/26, Stage IV and EPA Tier 4 final, not only delivers pure-air operation in emissions-free zones, but also – thanks to the diesel particulate filter fitted as standard – ensures compliance with the stringent requirements of the Swiss Clean Air Act.

The **MOBILAIR M 125** is a powerful and economical complete package full of additional innovative details, such as an energy-saving fan and the capability to infinitely adjust maximum pressure in 0.1 bar steps in response to the required maximum flow rate.

Versatile

The MOBILAIR M 125 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 chassis with run-on brake, as well as stationary models on skids or machine mounts, makes the M 125 perfectly adapted to suit any work environment.

Safe and simple

The ability to switch over manually from idling to full load operation ensures a reliable, gentle start when operating the unit in cold ambient conditions. Furthermore, the monitoring system can automatically shut the compressor down if necessary.

Durable

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

Made in Germany

MOBILAIR portable compressors are manufactured at KAESER's headquarters located 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 (German Technical Inspection Agency) certified sound testing area for free-field sound level measurement, a complete powder-coating facility and efficient manufacturing logistics.

With optional generator

The optional synchronous three-phase generator (IP 54) is available with a power of 13 kVA. According to power requirement, the brushless and maintenance-free generator can be switched over from continuous operation to energy-saving automatic start. The generator control panel is protected by a lockable cover. The maximum compressed air delivery can be flexibly adjusted according to required power generation via the electronic SIGMA CONTROL MOBIL compressor controller.



Meticulous design for perfect performance



MOBILAIR

MOBILAIR

MOBILAIR

Service friendly

Exceptional flexibility

Excellent accessibility



KAESER quality and efficiency in every detail



SIGMA PROFILE airend

At the heart of every M 125 system lies a premium quality KAESER SIGMA PROFILE airend. The airend rotors' optimised flow characteristics provide more compressed air for less energy consumption, whilst an energy-saving fan delivers up to 5% fuel savings.



Simple to operate

The SIGMA CONTROL MOBIL controller assures exceptionally intuitive operation, as only 3 buttons are required to operate the compressor. Infinitely adjustable pressure adjustment takes immediate effect and is set using the arrow keys.

This advanced compressor controller ensures optimised compressed air availability, fuel efficiency and exhaust gas management using state-of-the-art electronic engine management. Functions include operating mode display, monitoring and system diagnostics. The control panel is protected by a durable metal cover.



Condensate-free compressed air

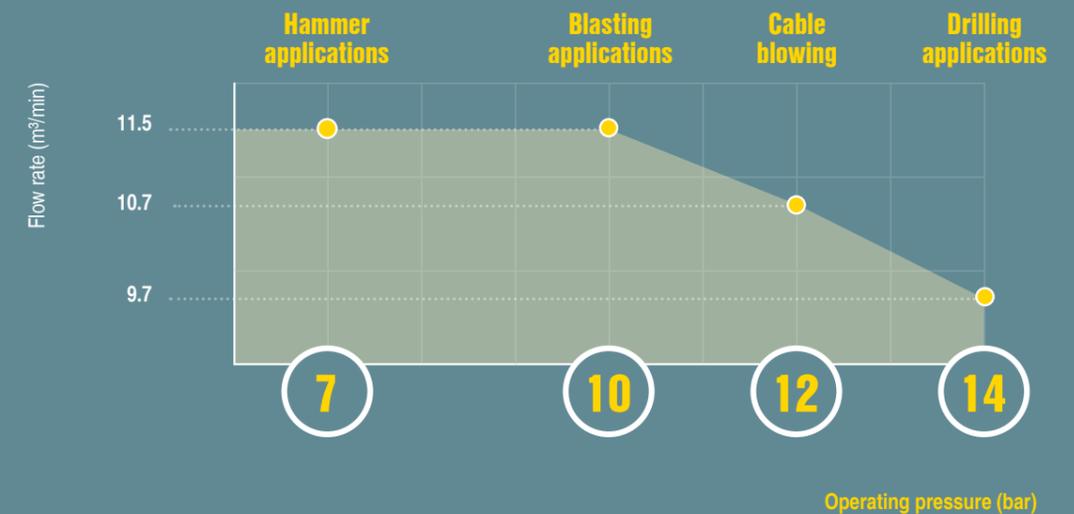
The optional aftercooler cools the compressed air to 7 °C above ambient temperature. Accumulated condensate is able to drain away easily, as the aftercooler is installed at an angle, whilst the hot exhaust gases from the engine are also used to aid condensate evaporation. Versions with the additional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



Technically oil-free compressed air

Depending on the specific application, the MOBILAIR 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/m^3 per ISO 8573-1.

Pressure and flow rate flexibility



Available equipment

Closed floor pan

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

Industrie 4.0 @ MOBILAIR

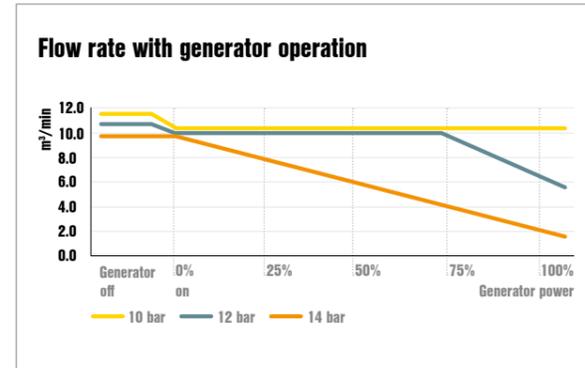
The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, fuel tank fill level, service alerts, location and machine duty cycle. The system optimises service processes by sending notifications regarding fault causes and upcoming scheduled maintenance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

Refinery version

An engine shut-off valve that automatically switches the machine off upon intake of combustible gases is available for units intended for use in refineries. Additionally, the emissions treatment system fitted as standard acts as a spark arrestor.

13 kVA generator

Providing maximum compressed air availability at all times 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.

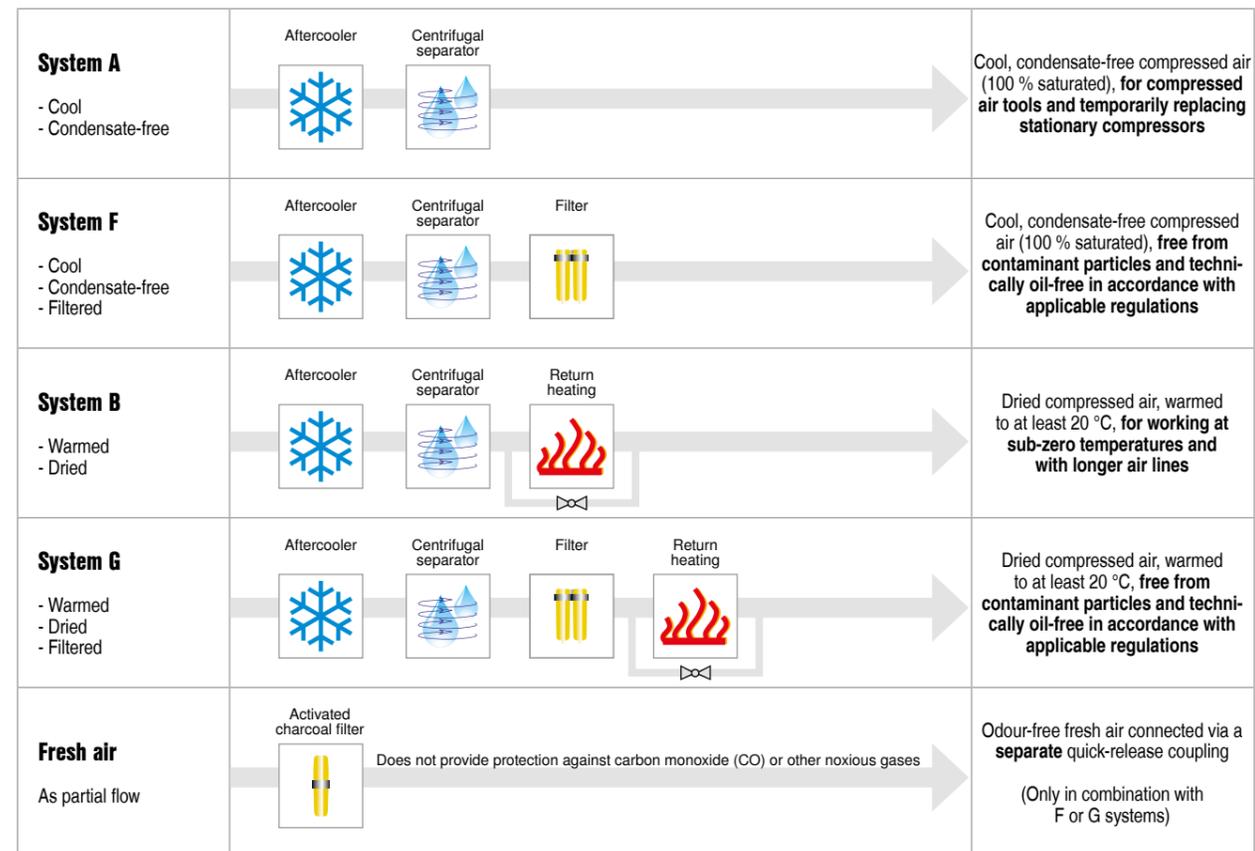


Technical specifications

| Model | Compressor | | | | 4-cylinder diesel engine (water-cooled) | | | | Complete system | | | | | |
|-------|----------------|-----|----------------|----------|---|-------------|-----------------------|--------------------|--------------------|----------------------|----------------------------------|---------------------------------|------------------------------------|-----------------------|
| | Max. flow rate | | Pressure range | | Make | Type | Emissions stage | Engine rated power | Speed at full load | Fuel tank capacity | Operational weight ¹⁾ | Sound power level ²⁾ | Sound pressure level ³⁾ | Compressed air outlet |
| | m³/min | cfm | bar | PSI | | | | | | | | | | |
| M 125 | 11.5 | 405 | 6 - 14 | 87 - 200 | Deutz | TCD 4.1 L04 | Stage IV Tier 4 final | 105 | 2200 - 1950 | 170 Diesel 10 AdBlue | 2080 | 99 | 70 | 3 x G ¾ 1 x G 1½ |

¹⁾ Weight specifications apply to standard unit without air treatment with overrun brake chassis and height adjustable tow bar
²⁾ Guaranteed sound power level as per 2000/14/EC
³⁾ Measuring surface sound pressure level as per ISO 3744 (r=10m)

Compressed air treatment system variants



Dimensions



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.



KAESER KOMPRESSOREN SE

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