



MOBILAIR® M 118 / M 125

Portable Compressor

With the world-renowned SIGMA PROFILE

Max. flow rate 11.5 m³/min (405 cfm)

MOBILAIR® M 118 / M 125

The powerful combination of a high efficiency KAESER SIGMA PROFILE rotary screw airend and a fuel-saving Deutz drive engine certified in accordance with EC Directive 2004/26, Stage IV and EPA Tier 4 final delivers pure air for more than just emissions-free zones. The M 118 features exhaust gas treatment with an oxidation catalytic converter and an SCR system, whilst the M 125 is additionally fitted with a diesel particulate filter that also meets the stringent requirements of the Swiss Clean Air Act.

Together with additional innovative details, such as pXv control, the **M 118 and M 125** are powerful and efficient overall packages. Adjustable in steps of 0.1 bar, maximum pressure (p) directly influences maximum flow rate (v). The M 118 delivers pressure between 5 and a maximum of 10.3 bar, and the M 125 can even deliver pressures up to 14.5 bar.

Versatile

These versatile portable compressors can be perfectly matched to meet the needs of the relevant application. Together with the wide range of available compressed air treatment components they always provide the required compressed air quality. Moreover, the selection of chassis with run-on brake, as well as stationary models on skids or machine mounts, means that these compressors can be 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 M 118 and M 125 are well-equipped for continuous gruelling construction site duty 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 versions feature engine coolant preheating, whilst 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.

M 125: 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



Service friendly

Exceptional flexibility

Excellent accessibility



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 M118 and M125 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 <math>< 0.01 \text{ mg/m}^3</math> as per ISO 8573-1.

KAESER quality and efficiency in every detail



SIGMA PROFILE air end

At the heart of every MOBILAIR system lies a premium quality air end featuring KAESER's energy-saving SIGMA PROFILE rotors. The air end rotors' optimised flow characteristics provide more compressed air for less energy, whilst the energy-saving fan in the M 125 helps deliver up to 5% additional fuel savings.

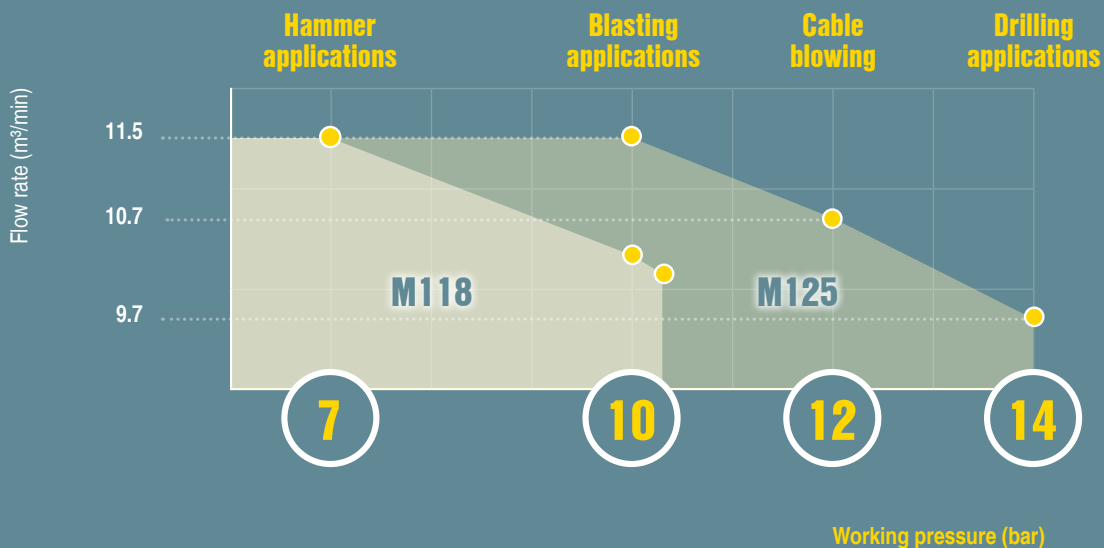


Simple to operate

The SIGMA CONTROL MOBIL controller assures exceptionally intuitive operation, as only 3 buttons are required to operate the compressor. Infinitely variable 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.

pXv 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 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

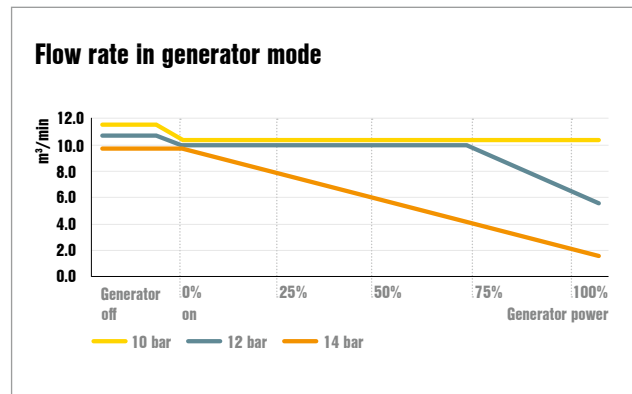
The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, fuel tank fill level, service alerts, location and machine duty cycle. The system optimises service processes by sending notifications regarding fault causes and upcoming scheduled maintenance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

Refinery version

The M 125 is available with an engine shut-off valve for use in refinery environments. It automatically switches the machine off upon intake of combustible gases. 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.



Compressed air treatment system variants

<p>System A</p> <ul style="list-style-type: none"> - Cool - Condensate-free 		<p>Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporarily replacing stationary compressors</p>
<p>System F</p> <ul style="list-style-type: none"> - Cool - Condensate-free - Filtered 		<p>Cool, condensate-free compressed air (100 % saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>System B</p> <ul style="list-style-type: none"> - Warmed - Dried 		<p>Dried compressed air, warmed to at least 20 °C, for working at sub-zero temperatures and with longer air lines</p>
<p>System G</p> <ul style="list-style-type: none"> - Warmed - Dried - Filtered 		<p>Dried compressed air, warmed to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>Fresh air</p> <p>As partial flow</p>	<p>Does not provide protection against carbon monoxide (CO) or other noxious gases</p>	<p>Odour-free fresh air connected via a separate quick-release coupling</p> <p>(Only in combination with F or G systems)</p>

Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Max. flow rate		Working pressure		Make	Type	Engine rated power	Speed at full load	Fuel/AdBlue tank capacity	Operational weight ¹⁾	Sound power level ²⁾	Sound pressure level ³⁾	Compressed air outlet
	m ³ /min	cfm	bar	PSI									
M118	11.5 - 10.2	405 - 360	7 - 10	100 - 145	Deutz	TCD 3.6 L04	85	2200 - 2050	170 / 10	2020	99	70	3 x G ¾ 1 x G 1½
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 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)

Dimensions

Version: Height adjustable		
Version: Fixed		
Version: Skids		
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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