



# MOBILAIR® M 118 / M 125

## Portable Compressors

With the world-renowned SIGMA PROFILE

Max. flow rate 11.5 m<sup>3</sup>/min (405 cfm)

# MOBILAIR® M 118 / M 125

The powerful combination of a high-efficiency KAESER rotary screw airend featuring SIGMA PROFILE rotors and an economical Deutz engine, certified in accordance with EU Directive 2016/1628, Stage V and EPA Tier 4 final, delivers pure, clean air wherever it operates – not just in Low Emission Zones. The M 118 features exhaust gas treatment with an oxidation catalytic converter and a Selective Catalytic Reduction system, whilst the M 125 is fitted with a diesel particulate filter that also meets the stringent requirements of the Swiss Clean Air Act.

Thanks to *pV* Control, **M 118 and M 125** units are powerful and efficient complete 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, whilst the M 125 can even deliver pressures up to 14.5 bar.

## Versatile

These versatile portable compressors can be perfectly adapted to meet the needs of the application in question. 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 idle 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 M 118 and M 125 are well equipped to face the grueling continuous operation in harsh conditions required on many construction sites. 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 in the airend.

## Made in Germany

MOBILAIR portable compressors are 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 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 output of 13 kVA. These brushless, maintenance-free generators can be switched over from continuous operation to energy-saving automatic start, depending on current power requirements. The generator control panel is protected by a lockable cover flap. Maximum compressed air delivery can be flexibly adjusted in line with power consumption via the electronic SIGMA CONTROL MOBIL compressor controller.



# Meticulous design for perfect performance



Service friendly

Exceptional flexibility

Excellent accessibility



### Condensate-free compressed air

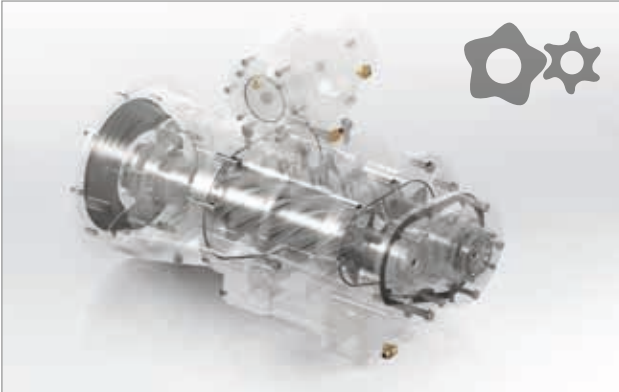
The optional aftercooler, installed at an angle so that condensate is able to drain away easily, cools the compressed air down to 7°C above ambient temperature, whilst the hot exhaust gases from the engine are also used to aid condensate evaporation. Versions with the additional option of compressed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



### Technically oil-free compressed air

Depending on the specific application, the M 118 and 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. This option delivers compressed air with an oil aerosol content of less than 0.01 mg/m<sup>3</sup>, in line with the requirements of 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 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.

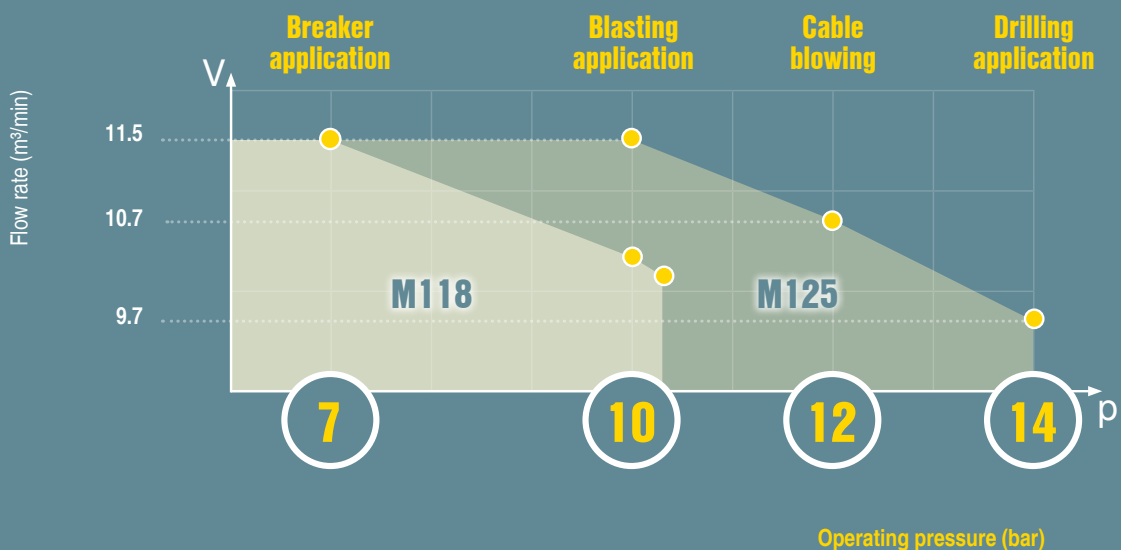


## Simple to operate

The SIGMA CONTROL MOBIL controller assures exceptionally intuitive operation, as only 3 buttons are required to operate the compressor. Infinitely adjustable pressure settings can be made using the simple arrow keys and take effect immediately. 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 an operating mode display, plus monitoring and system diagnostics. The control panel is protected by a durable metal cover flap.

## pV control: Air delivery and pressure flexibility

Set maximum 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.

## Industrie 4.0 @ MOBILAIR

The MOBILAIR Fleet Management online tool provides operators with a wide range of data, including working pressure, fuel tank fill level, service alerts, precise physical location and duty cycle. To optimise service processes, the system sends notifications regarding, for example, fault causes and upcoming scheduled maintenance requirements.

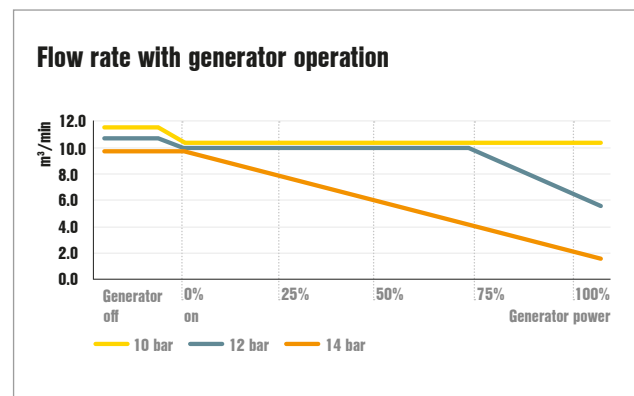
## Refinery version

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

emissions treatment system, fitted as standard, acts as a spark arrester.

## 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 variants

<b>System A</b> - Cool - Condensate-free		Cool, condensate-free compressed air (100 % saturated), <b>for compressed air tools and temporarily replacing stationary compressors</b>
<b>System F</b> - Cool - Condensate-free - Filtered		Cool, condensate-free compressed air (100 % saturated), <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b>
<b>System B</b> - Warmed - Dried		Dried compressed air, warmed to at least 20 °C, <b>for working at sub-zero temperatures and with longer air lines</b>
<b>System G</b> - Warmed - Dried - Filtered		Dried compressed air, warmed to at least 20 °C, <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b>
<b>Fresh air</b> As partial flow	<p>Does not provide protection against carbon monoxide (CO) or other noxious gases</p>	Odour-free fresh air connected via a <b>separate quick-release coupling</b>  (Only in combination with F or G systems)

# Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Max. flow rate		Gauge working pressure		Make	Type	Rated engine power	Speed at full load	Fuel/AdBlue tank capacity	Operating weight <sup>1)</sup>	Sound power level <sup>2)</sup>	Sound pressure level <sup>3)</sup>	Compressed air outlet
	m <sup>3</sup> /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

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

# Dimensions

<b>Version: Height-adjustable tow bar</b>		
<b>Version: Fixed tow bar</b>		
<b>Version: Skid-mounted</b>		
<b>Version: Stationary</b>		

# 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.



## KAESER KOMPRESSOREN SE

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