



MOBILAIR M 114

Portable Compressors

With the world-renowned SIGMA PROFILE
Flow rate 7.5 to 9.7 m³/min (265 – 345 cfm)

MOBILAIR M 114

The powerful combination of the highly efficient KAESER SIGMA PROFILE rotary screw airend and an energy-saving Deutz engine (certified in accordance with EC directive 2004/26, Stage IIIB) provides impressive fuel efficiency and super-clean performance. Together with other innovative features, this compact powerhouse is yet another dependable and efficient compressed air partner from KAESER KOMPRESSOREN.

Exceptional versatility

The MOBILAIR M 114 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, enables the M 114 to be perfectly adapted to suit the specific work environment.

Simple to operate

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. In addition, the automatic monitoring feature can shut the compressor down as required.



Tough performer

The M 114 is 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 version features engine coolant preheating and synthetic cooling fluid is used for the airend.

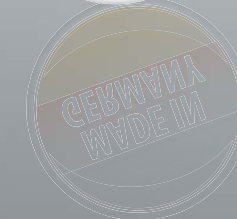
Made in Germany

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 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.

Impressive performance

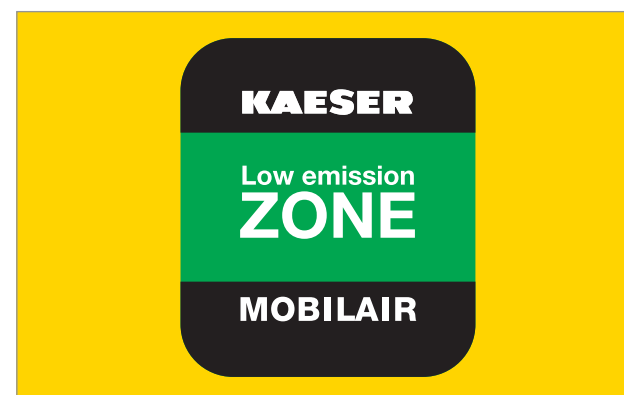
With its efficient diesel engine and generously sized fuel tank, this versatile compressor can operate effortlessly at full load for well over eight hours. The new SIGMA CONTROL SMART controller perfectly co-ordinates interplay between the low-emission engine and the rotary screw compressor's electronic intake valve regulation to ensure particularly efficient performance when operating at partial load.

Environmentally-responsible energy provider





KAESER quality and efficiency for every need



Low emission engine

The powerful Deutz drive engine is equipped as standard with an oxidation catalytic converter to assure dependable compliance with the stringent threshold values stipulated by EC directive 2004/26, Stage IIIB.



SIGMA CONTROL SMART

This advanced compressor controller ensures optimised compressed air availability, fuel efficiency and exhaust gas minimisation using state-of-the-art electronic engine management. Functions include operating mode display, intuitive user interface, monitoring and system diagnostics.



SIGMA PROFILE airend

At the heart of every M114 system lies a premium quality airend featuring KAESER's SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more air while using less energy.



Excellent accessibility, optimum serviceability

Thanks to intelligent component layout, all maintenance points are easily accessible via the large gull-wing doors, which makes service work tasks fast and efficient.

Optional equipment

Sealed floor pan

The sealed floor pan immediately catches all liquids to eliminate the possibility of potential soil contamination. The required drainage holes are sealed with screwed sealing plugs.

Pressure variants

Models are available in various pressure versions ranging from 10 to 14 bar. Pressure can easily be adjusted in steps of 0.5 bar from 6 bar to 0.5 bar above nominal pressure using the SIGMA CONTROL SMART's arrow keys. This pressure adjustment feature can also be electronically disabled to prevent unauthorised changing of parameters.

Compressed air treatment

The optional compressed air aftercooler reduces the compressed air temperature to 7 °C above ambient. Accumulated condensate is fed away via a centrifugal separator and evaporated using the hot exhaust gases from the

engine. Additional options include a filter combination for applications requiring technically oil-free compressed air and a plate-type heat exchanger for heat recovery purposes.

Suitable for refinery use

A certified spark arrestor is available for refinery applications. The engine shut-off valve automatically shuts the unit down upon intake of combustible gases.

GPS/GSM monitoring

The MOBILAIR FLEET MANAGEMENT online tool provides operators with a range of data including working pressure, fuel level, service alerts, location and machine load performance. The system optimises service processes by sending notifications regarding e.g. fault causes and scheduled maintenance tasks.

Technical specifications

Model	Compressor				4-cylinder diesel engine (Water-cooled)				Package				
	Flow rate		Operating pressure		Make	Type	Rated engine power	Speed at full load	Fuel tank capacity	Operational weight*	Sound power level**	Sound pressure level**	Compressed air outlet
	m ³ /min	cfm	bar	PSI									
M 114	9.7 8.4 7.5	345 295 265	10 12 14	145 175 200	Deutz	TD 3.6 L4	85	2200	170	1865	<99	70	1 x G 1½ 3 x G ¾

*) Applies to standard unit without air treatment with overrun brake chassis

***) Guaranteed sound power level as per 2000/14/EC

****) Surface sound pressure level as per ISO 3744 (r: 10m)

Compressed air treatment systems

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

Dimensions

Version Height adjustable		
Version Fixed		
Version Skids		
Version Stationary		

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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