

Portable Compressors

# MOBILAIR M 114

With the world-renowned SIGMA PROFILE 

Free air delivery 7.5 to 9.7 m³/min



**KAESER**

Low emission  
**ZONE**

**MOBILAIR**

MOBILAIR

# MOBILAIR M 114

## Powerful – efficient – clean

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.

### Maximum versatility

The MOBILAIR M 114 can be specifically tailored to meet the needs of the relevant application thanks to the wide range of available optional compressed air treatment components. Moreover, the selection of chassis with run-on brake, as well as stationary models on skids or machine feet, enables the M 114 to be perfectly adapted to suit the specific work environment.

### User-friendly

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. If necessary, the compressor can shut itself down using the automatic monitoring system.



### Tough performer

The M 114 is well-equipped for continuous gruelling construction site duty, even under the harshest of conditions. Even the standard version is 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.

### Exceptional endurance

The combination of the efficient diesel engine and generously-sized fuel tank enables the M 114 to operate continuously at full load for well over eight hours. Furthermore, the SIGMA CONTROL SMART controller makes the compressor especially efficient in the partial load range, as it co-ordinates interaction between the low-emission engine and the rotary screw compressor's electronic inlet valve control.

## Environmentally-sound powerhouse







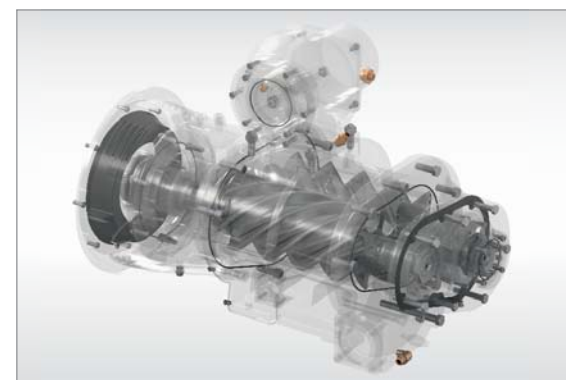
# MOBILAIR M 114

**KAESER quality and efficiency  
for every need**



## Low-emission engine

The Deutz engine is ready-equipped with an oxidation catalytic converter, which ensures dependable compliance with the threshold values set forth by the EC Directive 2004/26 Stage IIIB emissions standard.



## SIGMA PROFILE air end

At the heart of every M 144 system lies a premium quality air end featuring KAESER's SIGMA PROFILE rotors. The air end's optimised flow characteristics enable it to deliver more air while using less energy.



## SIGMA CONTROL SMART

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



## 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 fast and efficient.

## Optional equipment

### Sealed floor plan

The sealed floor pan immediately catches any liquids and therefore prevents potential soil contamination from occurring. The drainage holes are sealed with screw 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. The user can also electronically lock the pressure adjustment feature to prevent values from being altered by unauthorised personnel.

### Compressed air treatment

The optional compressed air after-cooler reduces the compressed air temperature to 7°C above ambient. The condensate that is removed via the centrifugal separator is evaporated using the hot exhaust gases from the engine. Additional options include a filter combination for 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

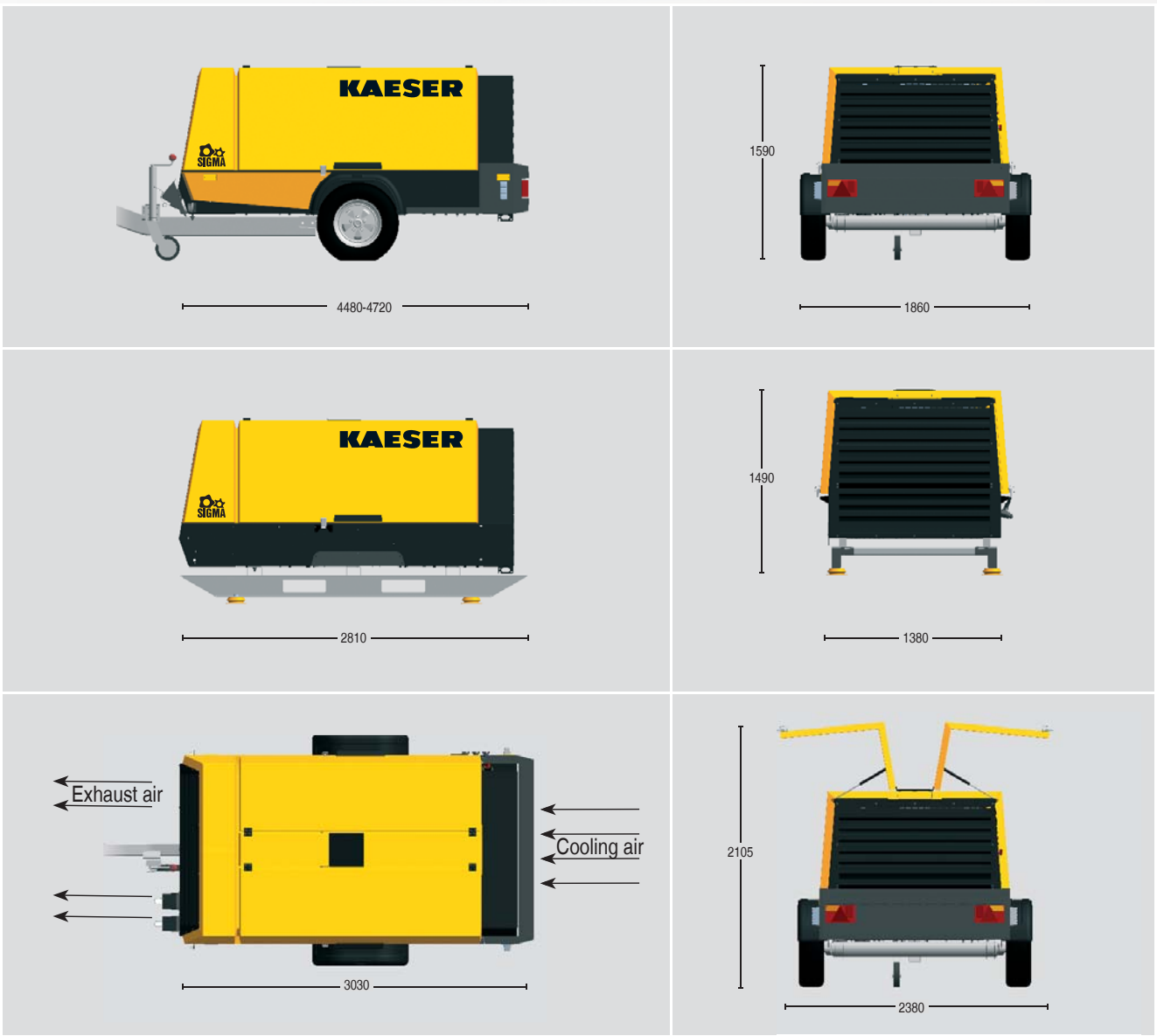
The MOBILAIR FLEET MANAGEMENT on-line tool provides operators with a range of data including working pressure, fuel tank level, service alerts, location and machine loading. The system optimises service processes by sending notifications regarding e.g. fault causes and upcoming scheduled maintenance measures.



## Compressed air treatment systems

<b>System A</b> <ul style="list-style-type: none"><li>• Cool</li><li>• Condensate-free</li></ul>	 	Cool, condensate-free compressed air (100% saturated), for driving air tools and temporarily replacing stationary compressors
<b>System F</b> <ul style="list-style-type: none"><li>• Cool</li><li>• Condensate-free</li><li>• Filtered</li></ul>	  	Cool, condensate-free compressed air (100% saturated), free from dirt particles and technically oil-free in accordance with applicable regulations
<b>System B</b> <ul style="list-style-type: none"><li>• Cool</li><li>• Dried</li></ul>	  	Dried compressed air, warmed to at least 20°C, for working at sub-zero temperatures and with longer air lines.
<b>System G</b> <ul style="list-style-type: none"><li>• Warmed</li><li>• Dried</li><li>• Filtered</li></ul>	   	Dried compressed air, warmed to at least 20 °C, free from dirt particles and technically oil-free in accordance with applicable regulations
<b>Fresh air</b> As partial flow	 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)

## Dimensions



## Technical specifications – MOBILAIR M 114

Model	Compressor.		4-cylinder diesel engine (Water-cooled)				Package				
	Flow rate m³/min	Working pressure bar	Make	Model	Rated motor power kW	Speed at full load rpm	Fuel tank capacity l	Operational weight kg*	Sound power level dB(A)**	Sound pressure level dB(A)***	Compressed air outlet
M 114	9.7 8.4 7.5	10 12 14	Deutz	TCD 3.6 L4	85	2200	170	1865	<99	70	3 x G ¾ 1 x G 1 ½

\*) 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)



# KAESER – The world is our home

As one of the world's largest manufacturers of rotary screw compressors, 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 all products operate at the peak of their performance at all times and provide maximum availability.

