

## Portable Compressors MOBILAIR M130 / M171

With the world-renowned SIGMA PROFILE 

Flow rate 9.4 to 17.0 m<sup>3</sup>/min



M130 / M171

# MOBILAIR M130 / M171

## 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 end efficient compressed air partner from KAESER KOMPRESSOREN.

### Versatile

The Mobilair M130 and M171 are in a class of their own when it comes to versatility, as they can be specifically tailored to meet the needs of the relevant application. They are able to deliver compressed air of the specified quality thanks to the wide range of available compressed air treatment component options and, with a selection of various braked chassis, as well as stationary models on skids or machine mountings, they are perfect for any operating environment.

### Clean

The latest Deutz engines are equipped with diesel particulate filters as standard which not only comply with European and US exhaust emissions regulations (Stage IIIB, or Tier 4 interim) but also meet the stringent Swiss Clean Air Act.

### Durable

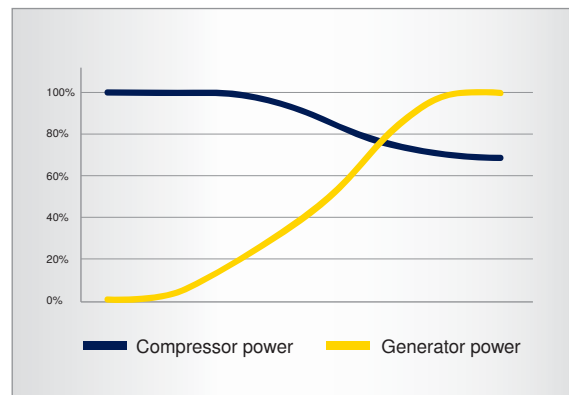
Both models are designed for continuous operation even under the toughest of environmental conditions. Even the standard versions are capable of operating in an ambient temperature range from -10 °C to +50 °C. Optionally available low-temperature versions feature engine coolant preheating and the airends are cooled using synthetic cooling fluid.

### Made in Germany

MOBILAIR portable compressors are manufactured in KAESER's state-of-the-art production facility at the main plant in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts TÜV (German Technical Inspection Agency) certified sound testing facilities for free-field sound level measurement, an advanced powder coating installation and highly efficient production logistics.

### M 130 with 23 kVA generator

The optional synchronous three-phase generator (IP54) reports voltage and frequency information to the compressor controller. This consequently ensures maximum reliability and best possible compressed air delivery volumes even at times of high energy demand.



## Environmentally-sound powerhouses: Construction site compressed air and power



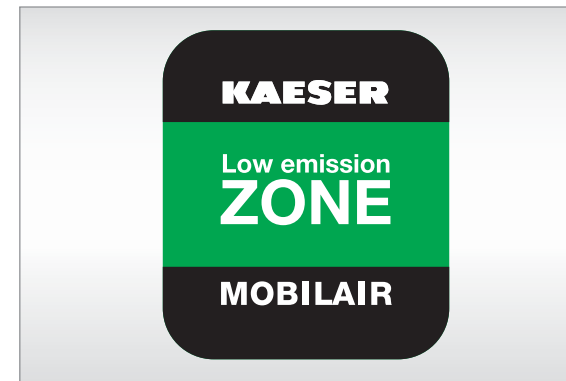
Image: MOBILAIR M130





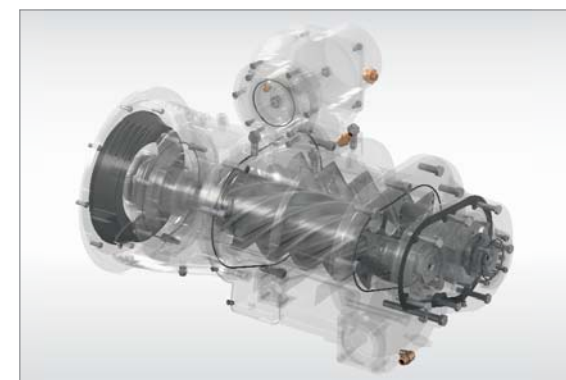
# MOBILAIR M130 / M171

## KAESER quality and efficiency for every need



### Diesel particulate filter

The powerful and efficient Deutz drive engines are equipped with diesel particulate filters as standard and are certified in accordance with European standard EC RL 2004/26, Stage IIIB and US exhaust emissions standard EPA Tier 4 interim.



### SIGMA PROFILE airend

At the heart of every MOBILAIR 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.



### SIGMA CONTROL MOBILE

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



### Energy-saving fan

Fan speed is precisely adjusted via a viscous clutch according to engine coolant, inlet air and airend discharge air temperatures by the SIGMA CONTROL MOBILE. This cuts fuel consumption by up to five percent.

Image: Upward exhaust outlet



Image: MOBILAIR M171

# MOBILAIR M130 / M171

## Quality compressed air – all the time, every time



### Excellent accessibility, optimum serviceability

The unit's large gull-wing doors provide excellent component accessibility for unrivalled ease of maintenance: That's good for both minimising costs and maximising compressed availability.



### Worldwide KAESER service

KAESER's global service organisation, with its fast, computer-supported spare parts shipment capability, is key to reliable and efficient compressed air supply. Optional custom service contracts are also available.



### Dry compressed air

Machines with the optional compressed air aftercooler and return heating combination allow users to easily adjust the compressed air discharge temperature to meet the needs of the application.



### Simple to operate

The SIGMA CONTROL MOBILE and intuitive operation mean that only three buttons are required to operate the compressor. Furthermore, the monitoring system can automatically shut the system down as required. An optional cover flap protects the control panel.



## Optional equipment

### Sealed floor plan

The sealed floor pan catches all liquids and therefore prevents soil contamination in sensitive areas. The drainage holes are sealed with screwed sealing plugs.

### Pressure variants

Models are available in various pressure versions ranging from 8.6 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 SIGMA CONTROL MOBILE's arrow keys. The pressure adjustment feature can also be electronically disabled to prevent tampering.

The compressed air is cooled to 7 °C above ambient temperature. The condensate is removed via a flow-optimised axial centrifugal separator and is subsequently evaporated using the hot exhaust gases from the engine. A filter combination can be installed for applications requiring oil-free compressed air and a plate-type heat exchanger can be installed for return heating purposes.

### Suitable for refinery use

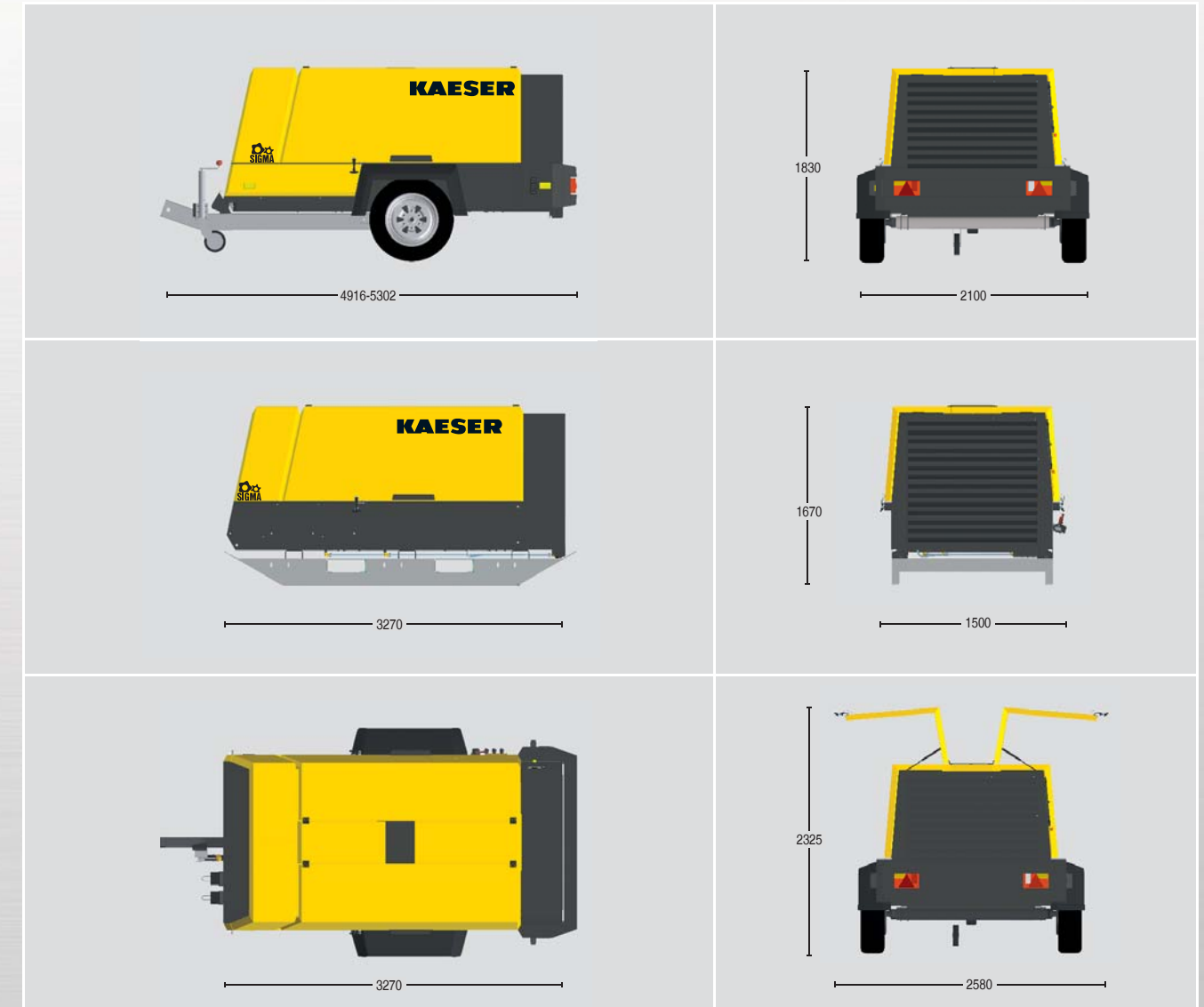
A certified spark arrestor is available for refinery applications. The engine shut-off valve automatically shuts the machine down upon intake of combustible gases.

### GPS/GSM monitoring

The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, tank level, service alerts, location and machine loading. The system optimises service processes by sending timely notifications regarding e.g. fault causes and upcoming scheduled maintenance measures.



## Dimensions



## 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>Warmed</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	<p>Does not provide protection from 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)

## Technical specifications

Model	Compressor		Diesel engine (water-cooled)				Package				
	FAD m³/min	Working pressure bar	Make	Type	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 130	12.0	10	Deutz	TCD 4.1 L04 (4-cylinder)	105	2100	200	2500	≤ 99	67	3 x G ¾ 1 x G 2
	10.7	12									
	9.4	14									
M 171	17.0	8,6	Deutz	TCD 6.1 L06 (6-cylinder)	128	1800	200	2650	≤ 99	68	3 x G ¾ 1 x G 2
	15.5	10									
	13.5	12									
	11.5	14									

\*) 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 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 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.

