

Portable Compressors **MOBILAIR M 170**

With the world-renowned SIGMA PROFILE 

Flow rate 11.5 – 17.0 m³/min (405 – 600 cfm)



Made in Germany



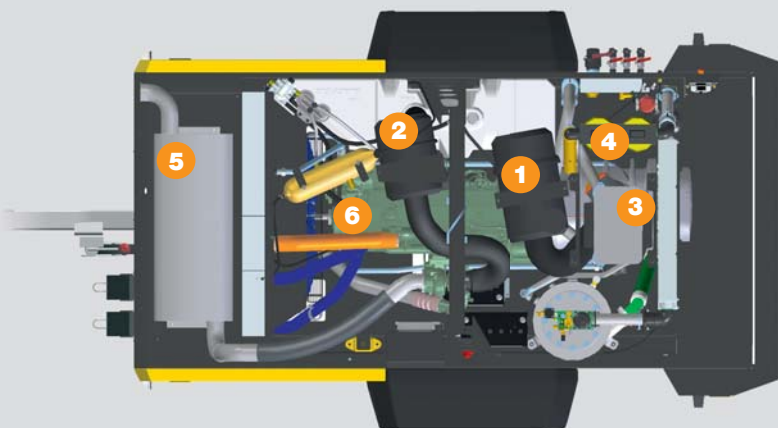
KAESER's renowned MOBILAIR range of portable compressors is manufactured in a state-of-the-art production facility located directly next to the KAESER main plant in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts TÜV (German Technical Inspection Agency) certified sound testing facilities for free-field sound level measurement, an advanced powder coating installation and highly efficient production logistics. With minimal turn-around time, KAESER's highly qualified personnel are able to assemble portable compressors of all sizes and equipment levels to suit our customers' specific needs.

Maximum versatility

The Mobilair M 170 is in a class of its own when it comes to versatility, as it can be specifically tailored to meet the needs of the relevant application.

Options include air treatment components, a choice of a fully galvanised chassis with overrun brake and a fixed or height adjustable tow bar, or stationary versions either mounted on skids or machine mountings.

A look under the enclosure



MOBILAIR M 170 – Power and efficiency



- 1 Compressor air filter
- 2 Engine air filter
- 3 SIGMA air end
- 4 Compressed air treatment (Optional)
- 5 Internal exhaust silencer (protected from potential damage)
- 6 Diesel engine



Simple and convenient pressure adjustment

Using the arrow keys, system pressure can be precisely adjusted in 0.1 bar increments on the SIGMA CONTROL mobile's display. This not only enhances flexibility but, in combination with the electronic inlet valve control, also achieves significant energy savings – especially when operating in partial load.



Dedicated intake filter for engine and air end

Optimised design and separate air filters considerably enhance reliability and service life. The filters can be changed on-site quickly and simply as required.



Easy to transport

The M 170 features a fully galvanised Alko chassis as standard. This not only ensures long-term value retention, but also makes transportation simple – a truck is not required to tow the unit.



The perfect energy-saving combination: Deutz engines and KAESER rotary screw compressors

The powerful combination of an energy-saving Deutz engine and the highly efficient KAESER SIGMA PROFILE rotary screw air end combines outstanding performance with considerably reduced fuel consumption. The MOBILAIR M 170 can operate at full power for a whole shift without refuelling. The water-cooled Deutz engine complies with exhaust emission regulations and is certified to Directive 2004/26/EC (Stage III A) and USA EPA (TIER III). Furthermore, users not only

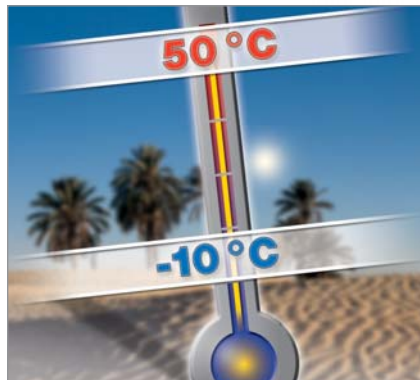
benefit from the quality of two world-class products, but can also rely on the comprehensive KAESER KOMPRESSOREN and Deutz global service networks to ensure maximum machine availability.

MOBILAIR M 170 – Perfect performance even in extreme conditions



Excellent accessibility

The M 170's user-friendly design not only ensures simple operation and outstanding manoeuvrability: The unit's large enclosure doors also provide excellent component accessibility for unrivalled ease of service. Stationary systems are equipped as standard with maintenance connections for draining of engine oil and compressor fluid.



Ambient temperature

Standard units are rated for ambient temperatures between -10 and +50 °C. A version for lower ambient temperatures is also available.



Large capacity, transparent fuel tank

When fully filled, the tank carries sufficient fuel for an entire work shift without the need for refuelling. For ease of operation, an automatic shut-down feature is activated when the fuel level becomes too low. A pre-warning from the SIGMA CONTROL mobile provides additional peace of mind.



Oil temperature control

The automatically controlled thermostatic valve ensures that optimal operating temperature is reached quickly and reliably. It therefore protects the compressor's fluid circulation loop from excessive condensate accumulation. This in turn significantly extends cooling fluid and separator cartridge service life and also enhances the unit's long-term durability.



Cool and condensate-free

The compressed air is cooled to 7 °C above ambient temperature. Moreover, the angled design of the optional compressed air cooler facilitates condensate drainage and the hot exhaust gases from the engine are used to evaporate the condensate. This design consequently ensures reliable frost protection during the winter months.



Compressed air treatment

Additional air treatment components need to be installed downstream from the aftercooler and centrifugal separator (e.g. filter combinations for concrete cleaning as per ZTV-ING) in order to achieve compressed air of a specified quality class. The differential pressure indicator enables filter status to be monitored quickly and easily.



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.

The SIGMA CONTROL mobile and intuitive operation mean that only 3 buttons are required to operate the M 170. Features also include automatic monitoring and shutdown and a metal cover flap to protect the control panel.

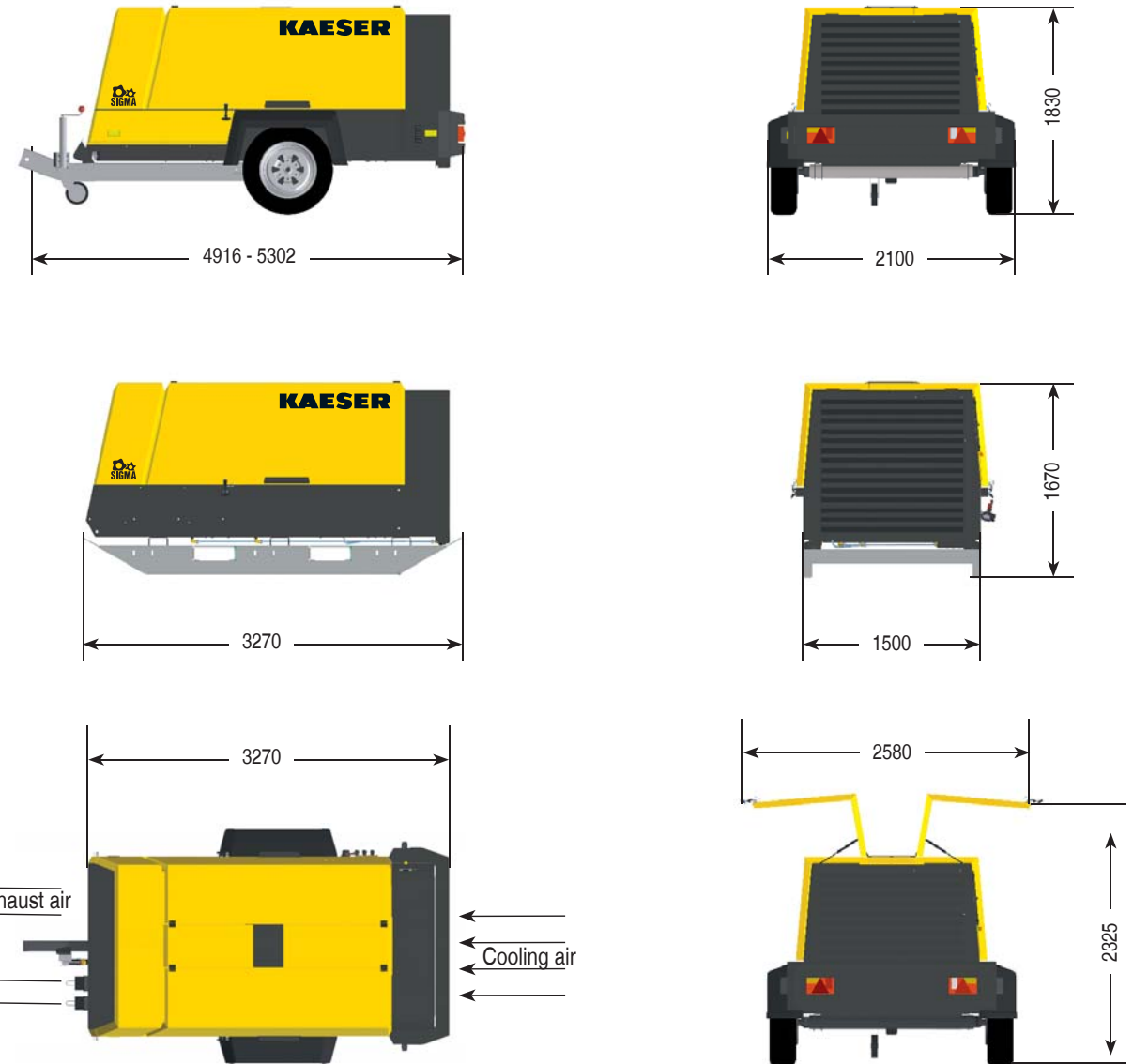
SIGMA CONTROL mobile

This advanced compressor controller ensures optimised compressed air availability and fuel efficiency using state-of-the-art electronic engine management. The system is both shock and vibration proof corresponding to IP 65 electrical protection. Features include operational mode display, user-friendly operation, system monitoring and diagnostics.





Dimensions



Compressed air treatment systems

<p>System A</p> <ul style="list-style-type: none"> • Cool • Condensate-free 	<p>Compressed air aftercooler</p> <p>Centrifugal separator</p>	<p>Cool, condensate-free compressed air (100 % saturated), for driving air tools and temporarily replacing stationary compressors</p>
<p>System F</p> <ul style="list-style-type: none"> • Cool • Condensate-free • Filtered 	<p>Compressed air aftercooler</p> <p>Centrifugal separator</p> <p>Filter</p>	<p>Cool, condensate-free compressed air (100 % saturated), free from dirt particles and technically oil-free in accordance with applicable regulations</p>
<p>System B</p> <ul style="list-style-type: none"> • Warmed • Dried 	<p>Compressed air aftercooler</p> <p>Centrifugal separator</p> <p>Return heating</p>	<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>Compressed air aftercooler</p> <p>Centrifugal separator</p> <p>Filter</p> <p>Return heating</p>	<p>Dried compressed air, warmed to at least 20 °C, free from dirt particles and technically oil-free in accordance with applicable regulations</p>
<p>Fresh air</p> <p>As partial flow</p>	<p>Activated carbon filter</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 system F or system G)</p>

Additional air treatment variants for the MOBILAIR M 170 are available upon request. Please contact KAESER for further details.

Technical specifications – Mobilair M 170

Model	M 170				
Flow rate	m ³ /min	17.0	15.5	13.5	11.5
	cfm	600	550	475	405
At working pressure	bar	8.6	10	12	14
	psi	125	145	175	200
Drive engine (water-cooled)	Deutz TCD 2012 L06				
Rated engine power	kW	128			
Speed at full load	rpm	1800			
Fuel tank capacity	l	200			
Operational weight	kg	2600			
Compressed air connection	3 x G $\frac{3}{4}$, 1 x G 2				

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.

