



MOBILAIR® M 122/M 123

Portable Compressors

With the world-renowned SIGMA PROFILE®

Flow rate 7.3 to 11.4 m³/min (260 – 405 cfm)

MOBILAIR® M 122/M 123

The perfect energy-saving combination: Deutz engine and KAESER rotary screw compressor

The powerful combination of an economical Deutz engine and a highly efficient KAESER airend with SIGMA PROFILE rotors delivers outstanding performance with considerably reduced fuel consumption. This enables the MOBILAIR M 122 or M 123 easily to operate throughout an entire day shift without refuelling. 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.

Exceptional versatility

The MOBILAIR M 122 and M 123 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. Available options include air treatment components and the choice of either a stationary configuration mounted on skids / machine feet, or a fully galvanised chassis with fixed or height-adjustable tow bar, with or without overrun brake.

Excellent accessibility

The user-friendly design of the M 122 and M 123 not only ensures simple operation and outstanding manoeuvrability — their large enclosure doors also provide excellent component accessibility for unrivalled ease of service. Stationary units are equipped as standard with maintenance connections for draining the engine oil and compressor fluid.

Exceptional versatility

The M 122 features mechanical engine management and a traditional control panel, whilst the M 123 benefits from a more powerful electronic engine management and the advanced SIGMA CONTROL SMART compressor controller. Functions include an operating data display, intuitive user interface, operational monitoring and system diagnostics. The SIGMA CONTROL SMART is protected by a durable metal cover as standard; the cover is also optionally available for the control panel on the M 122.



M 122



M 123

Easy to operate

The user-friendly control panel enables all information to be viewed at a glance. Features also include automatic monitoring and shutdown in the event of a fault. The ability to switch over manually from idle to full load operation ensures a reliable, gentle start when operating the machine in cold ambient conditions.

Superior power and flexibility





Illustration: M122

Perfect performance even in extreme conditions



M122: Proportional controller with manual wheel

On 10 to 14 bar versions, a manual wheel control fitted to the proportional controller enables infinite pressure adjustment for enhanced flexibility.



SIGMA CONTROL SMART

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



Large capacity, transparent fuel tank

When full, the tank carries sufficient fuel for an entire work shift without the need for refuelling. For added ease of operation, an automatic shutdown feature is activated when the fuel level becomes too low.



Ambient temperature

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

Available equipment

Closed floor pan

The closed floor pan immediately catches any liquids, thereby preventing ground contamination in environmentally sensitive zones. All drainage holes are sealed with screw plugs.














Suitable for use in refineries

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

Compressed air treatment

With the optional aftercooler, the compressed air is cooled to 7 °C above ambient temperature. The condensate is removed via a centrifugal separator and is subsequently evaporated by the hot exhaust air from the engine. A filter combination can be installed for applications requiring technically oil-free compressed air and a plate-type heat exchanger can be installed for the purposes of compressed air reheating.

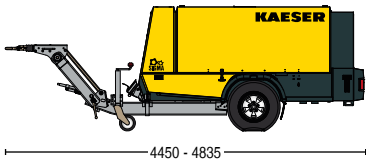
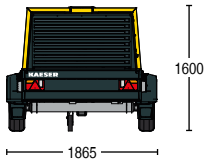
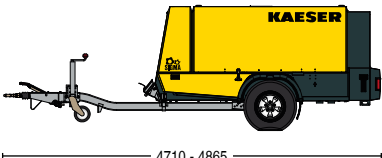
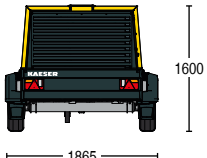
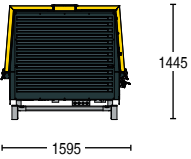

Compressed air treatment systems

<p>System A</p> <ul style="list-style-type: none"> - Cool - Condensate-free 	<p>Aftercooler</p>  <p>Centrifugal separator</p> 	<p>Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporary replacement of stationary compressors</p>
<p>System F</p> <ul style="list-style-type: none"> - Cool - Condensate-free - Filtered 	<p>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Filter</p> 	<p>Cool, condensate-free compressed air (100 % saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>System B</p> <ul style="list-style-type: none"> - Warmed - Dried 	<p>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Reheating</p> 	<p>Dried compressed air, reheated 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>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Filter</p>  <p>Reheating</p> 	<p>Dried compressed air, reheated to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>Fresh air</p> <p>As partial flow</p>	<p>Activated charcoal 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 F or G systems)</p>

Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system		
	Flow rate		Gauge working pressure		Make	Type	Rated engine power	Speed at full load	Fuel tank capacity	Operating weight	Compressed air connection
	m ³ /min	cfm	bar	PSI							
M 122	11.1	390	7	100	Deutz	TCD 2012 L04 (mechanical)	83	2300	170	1865	3 x G $\frac{3}{4}$, 1 x G 1 $\frac{1}{2}$
	10.1	355	8.6	125							
	9.5	335	10	145							
	8.2	290	12	175							
	7.3	260	14	200							
M 123	11.4	405	8.6	125	Deutz	TCD 2012 L04 (electronic)	88	2100	170	1945	3 x G $\frac{3}{4}$, 1 x G 1 $\frac{1}{2}$
	10.8	380	10	145							
	9.7	345	12	175							
	8.1	285	14	200							

Dimensions

<p>Version: Height-adjustable tow bar</p>		
<p>Version: Fixed tow bar (with or without overrun brake)</p>		
<p>Version: Skids</p>		
<p>Version: Stationary</p>		

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 120 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

P.O. Box 2143 – 96410 Coburg – GERMANY – Tel +49 9561 640-0 – Fax +49 9561 640-130
e-mail: productinfo@kaeser.com – www.kaeser.com