



# MOBILAIR® M 122/M 123

## Portable Compressors

With the world-renowned SIGMA PROFILE

Flow rate 7.3 to 11.4 m<sup>3</sup>/min (260 – 405 cfm)

# MOBILAIR® M 122/M 123

## The perfect energy-saving combination: Deutz engine and KAESER airend

The powerful combination of an energy-saving Deutz engine and the highly efficient KAESER SIGMA Profile rotary screw airend delivers outstanding performance with considerably reduced fuel consumption. It should therefore come as no surprise that the MOBILAIR M 122 and M 123 can easily perform for an entire work shift without the need to refuel. 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.

Options include compressed 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 installed on skids or machine mounts.

## Excellent accessibility

The M 122 and M 123'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.

## Exceptional versatility

In contrast to the M 122, which has mechanical engine control and the classic control panel, the M 123 features more powerful electronic engine management and the advanced SIGMA CONTROL MOBIL compressor controller. Functions include operating data display, intuitive user interface, monitoring and system diagnostics. The SIGMA CONTROL MOBIL is protected by a durable metal cover as standard; the cover is also optionally available for the M 122's control panel.



M 122

M 123

## Easy to operate

The user-friendly control and instrument panel enables all information to be viewed at a glance. Features also include automatic monitoring and shutdown in the event of a fault. Reliable, gentle start up is assured at all times, even in cold temperatures, thanks to manual switch over from pressure-free start to load operation.

# Superior power and flexibility





Image: M 122

# Perfect performance even in extreme conditions



## M 122: Proportional controller with manual control

In 10 to 14 bar versions, a manual control on the proportional controller enables infinite pressure adjustment for superior flexibility.



## M 123: Simple pressure adjustment

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



## Large capacity, transparent fuel tank

When fully filled, 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

## Sealed floor pan

The sealed floor pan immediately catches all liquids and therefore prevents potential soil contamination in environmentally sensitive zones. All drainage holes are sealed with screw plugs.














## 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.

## Compressed air treatment

The compressed air is cooled to 7 °C above ambient temperature by the optional compressed air aftercooler. The condensate is removed via a centrifugal separator and is subsequently evaporated by the hot exhaust gases 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 compressed air return heating purposes.

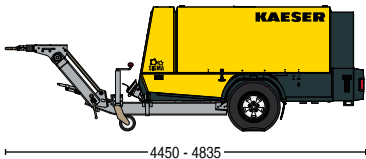
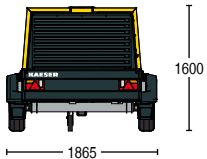
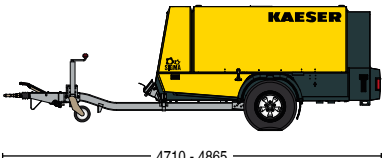
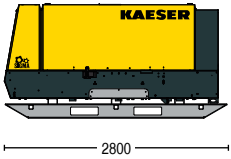
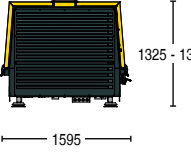
# Compressed air treatment systems

<p><b>System A</b></p> <ul style="list-style-type: none"> <li>- Cool</li> <li>- Condensate-free</li> </ul>	<p>Aftercooler</p>  <p>Centrifugal separator</p> 	<p>Cool, condensate-free compressed air (100 % saturated), <b>for compressed air tools and temporarily replacing stationary compressors</b></p>
<p><b>System F</b></p> <ul style="list-style-type: none"> <li>- Cool</li> <li>- Condensate-free</li> <li>- Filtered</li> </ul>	<p>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Filter</p> 	<p>Cool, condensate-free compressed air (100 % saturated), <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b></p>
<p><b>System B</b></p> <ul style="list-style-type: none"> <li>- Warmed</li> <li>- Dried</li> </ul>	<p>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Return heating</p> 	<p>Dried compressed air, warmed to at least 20 °C, <b>for working at sub-zero temperatures and with longer air lines</b></p>
<p><b>System G</b></p> <ul style="list-style-type: none"> <li>- Warmed</li> <li>- Dried</li> <li>- Filtered</li> </ul>	<p>Aftercooler</p>  <p>Centrifugal separator</p>  <p>Filter</p>  <p>Return heating</p> 	<p>Dried compressed air, warmed to at least 20 °C, <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b></p>
<p><b>Fresh air</b></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 <b>separate</b> 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	Engine rated power	Speed at full load	Fuel tank capacity	Operational weight	Compressed air outlet
	m <sup>3</sup> /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

<b>Version: Height adjustable</b>		
<b>Version: Fixed</b>		
<b>Version: Skids</b>		
<b>Version: Stationary</b>		

# 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 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 every product operates at the peak of its performance at all times and provides maximum availability.



## KAESER KOMPRESSOREN SE

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