



# 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 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



## M 122: 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.

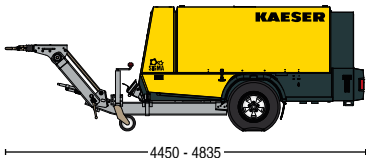
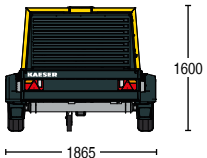
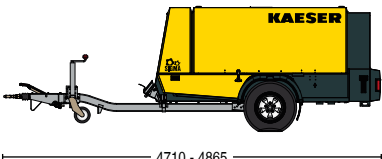
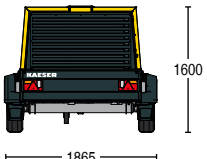
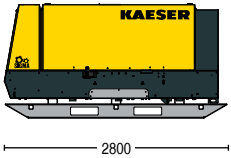
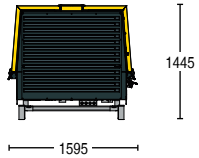
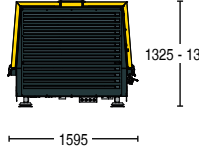
# Compressed air treatment systems

|                                                              |                                                                                        |                                                                                                                                                                   |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System A</b><br>- Cool<br>- Condensate-free               |                                                                                        | Cool, condensate-free compressed air (100 % saturated), <b>for compressed air tools and temporary replacement of stationary compressors</b>                       |
| <b>System F</b><br>- Cool<br>- Condensate-free<br>- Filtered |                                                                                        | Cool, condensate-free compressed air (100 % saturated), <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b> |
| <b>System B</b><br>- Warmed<br>- Dried                       |                                                                                        | Dried compressed air, reheated to at least 20 °C, <b>for working at sub-zero temperatures and with longer air lines</b>                                           |
| <b>System G</b><br>- Warmed<br>- Dried<br>- Filtered         |                                                                                        | Dried compressed air, reheated to at least 20 °C, <b>free from contaminant particles and technically oil-free in accordance with applicable regulations</b>       |
| <b>Fresh air</b><br>As partial flow                          | <p>Does not provide protection against carbon monoxide (CO) or other noxious gases</p> | Odour-free fresh air connected via a <b>separate</b> quick-release coupling<br><br>(Only in combination with F or G systems)                                      |

# 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 |
|       | m³/min     | cfm | bar                    | PSI |                                         |                           |                    |                    |                    |                  |                           |
| M 122 | 11.1       | 390 | 7                      | 100 | Deutz                                   | TCD 2012 L04 (mechanical) | 83                 | 2300               | 170                | 1865             | 3 x G¾,<br>1 x G 1½       |
|       | 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 G¾,<br>1 x G 1½       |
|       | 10.8       | 380 | 10                     | 145 |                                         |                           |                    |                    |                    |                  |                           |
|       | 9.7        | 345 | 12                     | 175 |                                         |                           |                    |                    |                    |                  |                           |
|       | 8.1        | 285 | 14                     | 200 |                                         |                           |                    |                    |                    |                  |                           |

## Dimensions

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

# The world is our home

As one of the world's largest manufacturers of compressors, blowers and compressed air systems, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of wholly owned subsidiaries and authorised distribution partners in over 140 countries.

By offering innovative, efficient and reliable products and services, KAESER KOMPRESSOREN's experienced consultants and engineers work in close partnership with customers to enhance their competitive edge and to develop progressive system concepts that continuously push the boundaries of performance and technology. Moreover, decades of knowledge and expertise from this industry-leading systems provider are made available to each and every customer via the KAESER group's advanced global IT network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times, providing optimal efficiency and maximum availability.



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