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)

www.kaeser.com
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.

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
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.

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.

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

Compressed air treatment systems

<table>
<thead>
<tr>
<th>System A</th>
<th>System F</th>
<th>System B</th>
<th>System G</th>
<th>Fresh air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool</td>
<td>Cool</td>
<td>Warm</td>
<td>Warm</td>
<td>As partial flow</td>
</tr>
<tr>
<td>Condensate-free</td>
<td>Condensate-free</td>
<td>Dried</td>
<td>Dried</td>
<td>Odour-free fresh air connected via a separate quick-release coupling</td>
</tr>
<tr>
<td>- Cool</td>
<td>- Cool</td>
<td>- Warm</td>
<td>- Warm</td>
<td>Does not provide protection against carbon monoxide (CO) or other noxious gases</td>
</tr>
<tr>
<td>- Condensate-free</td>
<td>- Condensate-free</td>
<td>- Dried</td>
<td>- Dried</td>
<td>(Only in combination with F or G systems)</td>
</tr>
</tbody>
</table>

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

- System A: Cool, condensate-free compressed air (100% saturated), for compressed air tools and temporarily replacing stationary compressors
- System F: Cool, condensate-free compressed air (100% saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations
- System B: Dried compressed air, warmed to at least 20 °C, for working at sub-zero temperatures and with longer air lines
- System G: Dried compressed air, warmed to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations
- Fresh air: Odour-free fresh air connected via a separate quick-release coupling (Only in combination with F or G systems)

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.

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

Compressed air treatment systems

- System A: Cool, condensate-free compressed air (100% saturated), for compressed air tools and temporarily replacing stationary compressors
- System F: Cool, condensate-free compressed air (100% saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations
- System B: Dried compressed air, warmed to at least 20 °C, for working at sub-zero temperatures and with longer air lines
- System G: Dried compressed air, warmed to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations
- Fresh air: Odour-free fresh air connected via a separate quick-release coupling (Only in combination with F or G systems)
# Technical specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>4-cylinder diesel engine (water-cooled)</th>
<th>Complete system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flow rate</td>
<td>Gauge working pressure</td>
<td>Make</td>
</tr>
<tr>
<td></td>
<td>m³/min</td>
<td>cfm</td>
<td>bar</td>
</tr>
<tr>
<td>M 122</td>
<td>11.1</td>
<td>390</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>10.1</td>
<td>355</td>
<td>8.6</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>335</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>8.2</td>
<td>290</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>7.3</td>
<td>260</td>
<td>14</td>
</tr>
<tr>
<td>M 123</td>
<td>11.4</td>
<td>405</td>
<td>8.6</td>
</tr>
<tr>
<td></td>
<td>10.8</td>
<td>380</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>9.7</td>
<td>345</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>8.1</td>
<td>285</td>
<td>14</td>
</tr>
</tbody>
</table>

# Dimensions

## Version: Height adjustable

- **Height adjustable**
- **Dimensions:** 4450 - 4835
- **Width:** 1965
- **Length:** 1600

## Version: Fixed

- **Fixed**
- **Dimensions:** 4710 - 4865
- **Width:** 1965
- **Length:** 1600

## Version: Skids

- **Skids**
- **Dimensions:** 2860
- **Width:** 1595
- **Length:** 1445

## Version: Stationary

- **Stationary**
- **Dimensions:** 2700
- **Width:** 1595
- **Length:** 1325 - 1385
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.