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)
The 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.

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

MADE IN GERMANY
Perfect performance even in extreme conditions

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.

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.

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 systems

<table>
<thead>
<tr>
<th>System</th>
<th>Compressed air treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>System A</td>
<td>Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporary replacement of stationary compressors</td>
</tr>
<tr>
<td>System B</td>
<td>Dried compressed air, reheated to at least 20 ºC, for working at sub-zero temperatures and with longer air lines</td>
</tr>
<tr>
<td>System G</td>
<td>Dried compressed air, reheated to at least 20 ºC, free from contaminant particles and technically oil-free in accordance with applicable regulations</td>
</tr>
</tbody>
</table>

**Fresh air**  
As partial flow  
Does not provide protection against carbon monoxide (CO) or other noxious gases

**Compressed air treatment**

With the optional aftercooler, the compressed air is cooled to 7 ºC 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.

**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.
## 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 tow bar

- Height: 1600 mm
- Length: 4450 - 4835 mm

### Version: Fixed tow bar (with or without overrun brake)

- Height: 1600 mm
- Length: 4710 - 4865 mm

### Version: Skids

- Height: 1445 mm
- Length: 2800 mm

### Version: Stationary

- Height: 1325 - 1385 mm
- Length: 2700 mm
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.