



# MOBILAIR® M 255

## Portable Compressor

With the world-renowned SIGMA PROFILE<sup>⚙️</sup>

Flow rate 19.5 to 26.5 m<sup>3</sup>/min (695 – 935 cfm)

# MOBILAIR® M 255

Performance is more than a promise with the MOBILAIR M 255. KAESER's oil-injected portable compressor titan is both powerful and compact. The required power is provided by a Cummins engine that fulfills EU 'Stage V' emission and EPA 'Tier 4 final' regulations. Moreover, the M 255 features a flow-optimised SIGMA PROFILE airend and an innovative energy-saving fan to ensure exceptional efficiency. Weighing just 3500kg, this mobile powerhouse is particularly light in its class and is safe and simple to operate.

There is a choice of two pressure levels: 10.3 bar or 14 bar. Thanks to its dynamic  $pV$  control, the MOBILAIR M 255 offers incredible flexibility, meaning that one and the same system can deliver pressures between 6 and 14 bar. If the application does not require higher pressures, then the 10.3 bar version delivers up to 1 m<sup>3</sup>/min more compressed air power. Always use only the pressure that is needed, since this helps achieve maximum energy savings.

## Versatile

These versatile portable compressors can be perfectly adapted to meet the needs of the specific application. Thanks to a wide range of optional compressed air treatment components, they are always capable of providing the desired compressed air quality. Moreover, the choice of a chassis version with overrun brake, or stationary versions on skids or machine feet, means that these compressors can be tailored to suit any work environment.

## Service-friendly

The MOBILAIR M 255 is particularly easy to service and maintain. All maintenance points are easily accessible via two generously-sized body flaps, which makes changing the air filter with its safety elements child's play. Operating fluids can be drained easily and safely, whilst the spin-on oil separator cartridges can be quickly replaced. With the countdown in the compressor controller display, you can always keep an eye on the time remaining until the next maintenance is due. Service time can even be viewed online using the optional telematics.

## Durable

The MOBILAIR M 255 is well-equipped for continuous construction site duty, even under the harshest of conditions. The standard version alone is capable of operating in ambient temperatures from -10 °C to +45 °C. The optional low-temperature version features engine coolant preheating, whilst synthetic cooling fluid is used in the airend.

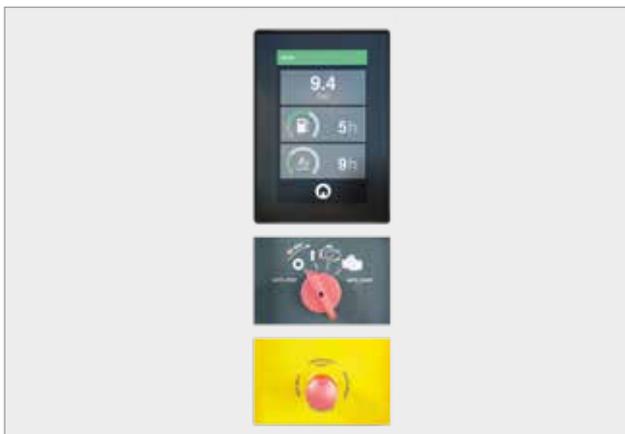
## Made in Germany

The various ranges of MOBILAIR portable compressors are all manufactured at KAESER's headquarters in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts state-of-the-art equipment, including a TÜV-certified sound testing area for free-field sound level measurement, a facility for high-performance, high-quality powder coating and efficient manufacturing logistics.

## New operating concept

KAESER placed special emphasis on user-friendliness when designing the operating concept for the MOBILAIR M 255. This focus resulted in a simple and intuitive user interface featuring a single rotary switch for start-stop operation.

The pressure can be adjusted just as easily on the touch display - even when wearing unwieldy work gloves. The  $pV$  control can therefore be perfectly adjusted for every application, and the easy-to-read touch display provides a clear overview of all operating data.



# Powerful... ...yet compact



## Industrie 4.0 @ MOBILAIR

With the TELEMATICS 36 option, Industrie 4.0 comes to the construction site. Following approval of the data usage contract, KAESER equips every M 255 ex works – at no extra cost – with a modem and connects it to the telematics portal.

**The best part:** KAESER pays the portal fees for 36 months. You can therefore view operating data, current messages and system location online.

Through anonymous evaluation of the machine data by KAESER, you help to make system operation and usage even more efficient and reliable.



# The M 255 in detail



## Oil separation with spin-on cartridges

For even faster maintenance, the M 255 is equipped with spin-on cartridges on the oil separator tank. The cartridges can be changed quickly and easily for seamless, and cost-effective servicing.

## Tandem-axle chassis (< 3.5 t)

Thanks to its superior running characteristics, the tandem-axle chassis assures safe on-road performance and provides excellent stability on the construction site.

## Closed floor pan (option)

The closed floor pan catches any fluids to safeguard against direct ground contamination. All drainage holes are sealed with screw plugs.



**SIGMA PROFILE  
rotary screw airend**

At the heart of every MOBILAIR system lies an energy-saving SIGMA PROFILE rotary screw airend. Premium design, meticulous manufacturing and precision-aligned anti-friction bearings guarantee long service life and exceptional efficiency.



**Safety air filter as standard**

When cleaning the air filter, additional safety elements prevent damage from occurring due to dirt ingress. This enables maintenance to take place even under harsh environmental conditions.



**SIGMA CONTROL MOBIL 2  
advanced controller  
with touch display**

Operating pressure can be conveniently adjusted via the touch display, even when wearing work gloves. The easy-to-read display provides a clear overview of all operating data.



**Low emission Cummins  
engine (Stage V)**

The compact M 255 features an environmentally-friendly Cummins engine that complies with 'Stage V' emission regulations and an energy-saving fan, equipped as standard, to ensure maximum efficiency.



**Safety loading**

Regardless of the destination, safety takes priority when it comes to transportation of the M 255. The system is therefore fitted as standard with lashing eyes and climbing aids to enable easy access to the crane lifting gear.



**New operating concept  
with rotary switch**

KAESER placed special emphasis on user-friendliness when designing the operating concept for the MOBILAIR M 255. This focus resulted in a simple and intuitive user interface featuring a single rotary switch for start-stop operation.



**Refinery equipment  
(option)**

In addition to the standard spark arrestor, the M 255 can optionally be equipped with an engine shut-off valve, which automatically switches the machine off upon intake of combustible gases.



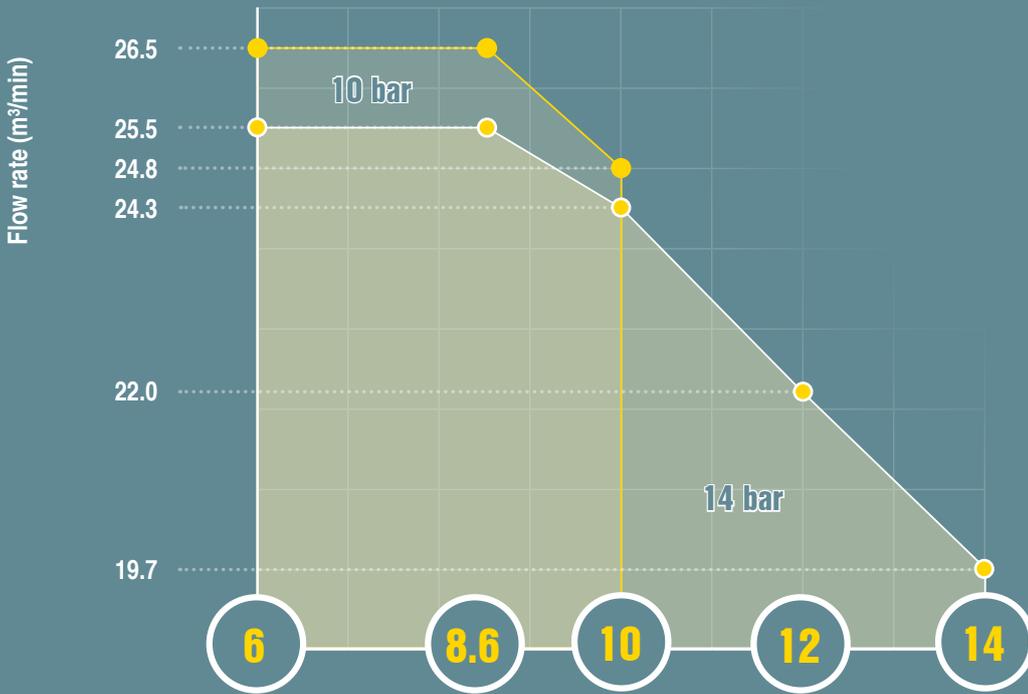
**Generous tank capacity**

When full, the fuel tank has sufficient capacity to last an entire work shift. The tank is evenly positioned on both sides to achieve perfect balance at all times, even at different fill levels.



**Rear compressed air outlet**

The M 255 has all of your compressed air needs covered with its various available compressed air connections. Compressed air can be drawn off via 3 x G 3/4 claw couplings and 1 x G 2 threaded connection.



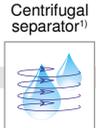
## pV control:

Pressure and flow rate flexibility

Set max. pressure ( $p$ ) influences max. flow rate ( $v$ ).

Working pressure (bar)

# Compressed air treatment variants

|  |   |   |
|--|---|---|
| <p><b>System A</b></p> <ul style="list-style-type: none"> <li>- Cool</li> <li>- Condensate-free</li> </ul>                     | <p>Compressed air aftercooler</p>  <p>Centrifugal separator<sup>1)</sup></p>    | <p>Cool, condensate-free compressed air (100% saturated), for compressed air tools and temporary replacement of stationary compressors</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>Compressed air aftercooler</p>  <p>Centrifugal separator<sup>1)</sup></p>  <p>Filter</p>  | <p>Cool, condensate-free compressed air (100% saturated), free from contaminants and technically oil-free in accordance with applicable regulations</p> |
| <p><b>Fresh air</b></p> <p>As partial flow</p>   | <p>Activated carbon 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 coupling (available only in connection with System F)</p>                                 |

1) The separated condensate is evaporated in an environmentally friendly manner via the engine exhaust gases or, when the engine is cold, is collected in a canister.

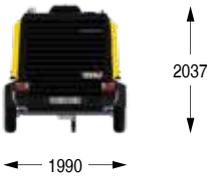
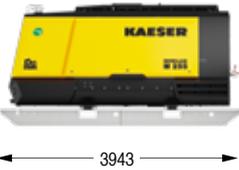
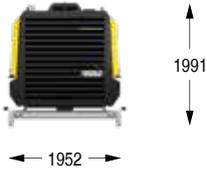
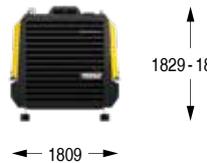
# Technical specifications

| Model | Flow rate at working pressure |                     |                  |                    |                   |                   | Engine type | Rated engine power | Fuel / AdBlue tank capacity | Operating weight <sup>1)</sup> | Sound level <sup>2)</sup> | Compressed air treatment                  |                   |
|-------|-------------------------------|---------------------|------------------|--------------------|-------------------|-------------------|-------------|--------------------|-----------------------------|--------------------------------|---------------------------|---|-------------------|
|       | Pressure range to             |                     | 7 bar<br>100 psi | 8.6 bar<br>125 psi | 10 bar<br>145 psi | 12 bar<br>175 psi |             |                    |                             |                                |                           |   | 14 bar<br>200 psi |
| M 255 | 10 bar<br>145 psi             | m <sup>3</sup> /min | 26.5             | pV                 | 24.8              | -                 | -           | Cummins<br>B6.7    | 210                         | 350 / 56.8                     | 3271                      | L <sub>WA</sub> 100<br>L <sub>PA</sub> 70 | A / F             |
|       |                               | cfm                 | 935              |                    | 875               |                   |             |                    |                             |                                |                           |   |                   |
|       | 14 bar<br>200 psi             | m <sup>3</sup> /min | 25.5             | pV                 |                   | 19.7              |             |                    |                             |                                |                           |   |                   |
|       |                               | cfm                 | 900              |                    |                   | 695               |             |                    |                             |                                |                           |   |                   |

<sup>1)</sup> Weight specifications apply to standard unit including chassis with overrun brake and height-adjustable tow bar

<sup>2)</sup> Guaranteed sound power level L<sub>WA</sub> as per 2000/14/EG, measured surface sound pressure level L<sub>PA</sub> as per ISO 3744 (r = 10 m)

# Dimensions

|                                     |   |   |
|-------------------------------------|---|---|
| Unit with height-adjustable tow bar |  |  |
| Skid-mounted unit                   |  |  |
| Stationary unit                     |  |  |

# 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 branches, 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 peak performance at all times, whilst providing maximum availability.



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