KAESER KOMPRESSOREN®




# MOBILAIR M 50

**Portable Compressor**

With the world-renowned SIGMA PROFILE

Flow rate up to 5.0 m³/min (180 cfm)

**www.kaeser.com**

# MOBILAIR M 50

## Full power, maximum efficiency

Powerful, economical and dependable – the perfect combination of a KAESER rotary screw compressor and a Kubota engine makes the MOBILAIR M 50 your ideal solution for the construction site. Its energy-efficient, speed-optimised compressor unit with the SIGMA PROFILE is directly coupled to a water-cooled, 4-cylinder diesel engine. Thanks to this 1:1 direct drive, the M 50 benefits from particularly fuel-saving operation without transmission losses, for maximum performance with minimal resource consumption. Boasting a compressed air delivery volume of up to 5 m³/min, the M 50 is perfect for operating construction hammers, compressed air spades, grinders, lances, sewer robots, and for blowing out work machines – a powerful and cost-effective solution for demanding applications.

## Exceptionally versatile

Portable compressors can be precisely tailored to meet the needs of the specific task at hand. Thanks to the wide range of optional compressed air treatment components, they always deliver the required compressed air quality. Moreover, the choice of various chassis configurations – with or without overrun brake – and the ability for stationary installation using skids or machine feet make them perfectly suited for any location

## Made in Germany

The various ranges of MOBILAIR portable compressor are all manufactured at KAESER's headquarters in Coburg, Northern Bavaria. Equipped with the very latest technology, the 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.

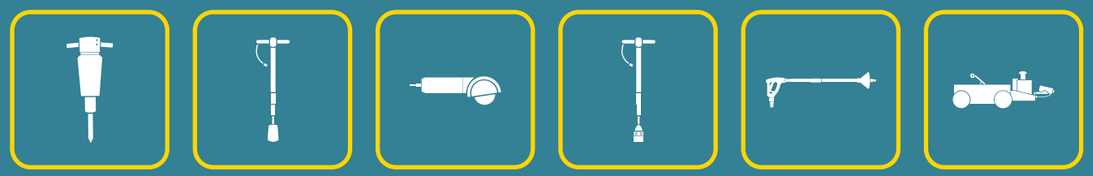
## Durable and resilient

The MOBILAIR M 50 provides a dependable supply of quality compressed air, even under the harshest of operating conditions. This resilient powerhouse operates flawlessly at ambient temperatures from -10 °C to +50 °C. Moreover, the compressor controller ensures a safe, smooth start-up even at high elevations.

## Airend with SIGMA PROFILE

At the heart of every MOBILAIR system lies a premium-quality airend featuring KAESER's energy-saving SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more compressed air for less energy.

## Typical applications



Air hammers | Pneumatic spades | Pneumatic grinders | Compressed air lances | Blowing out | Sewer robots





# Exceptionally versatile

### 4 Hose reel

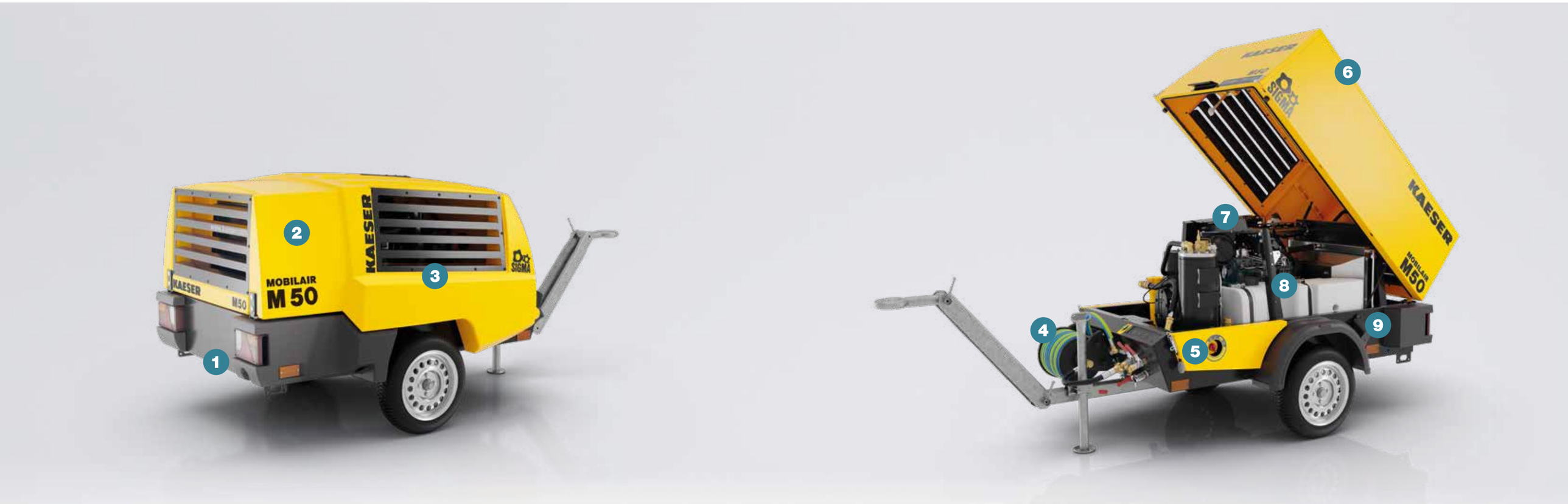
The factory-installed hose reel holds 20 m of lightweight hose, which does not need to be fully reeled out. It protects the hose from damage and contamination, thereby extending its service life.

### 5 Intuitive operation

Operation is made simple via intuitive icons and a start switch with preheating function. The system also features fully automatic monitoring and automated shutdown in the event of malfunction, whilst a pressure gauge and temperature display enable operating status to be viewed at a glance.

### 6 Service-friendly

MOBILAIR compressors make servicing simple. All maintenance points are conveniently accessible thanks to the wide opening angle of the enclosure. KAESER also provides tailored maintenance contracts to meet your specific needs.




### 1 Suitable for refinery use

To ensure safe operation in refineries, portable compressors are optionally equipped with a spark arrestor and an engine shut-off valve, which automatically shuts the machine down upon intake of combustible gases.

### 2 Special PE colours

The corrosion- and scratch-proof, roto-moulded polyethylene enclosure is also available in the following special colours: red, green, blue, orange, white. Other enclosure colours are available upon request.

### 3 Metal or PE enclosure

Choose between a resilient PE enclosure or a durable metal one. The PE enclosure ensures particularly low weight, while the metal enclosure impresses with its incredible sturdiness. Both variants provide dependable protection from dust, dirt, and moisture.

### 7 Compressed air aftercooler

In the aftercooler, the compressed air is cooled to 7 °C above ambient temperature. Its angled installation ensures frost-proof drainage of condensate, which is then evaporated by the hot exhaust gases.

### 8 Generous tank capacity

When full, the fuel tank has sufficient capacity to last for an entire work shift. The transparent tank enables the fuel level to be checked easily, and an electric fuel feed pump automatically vents the tank if it runs dry.

### 9 Floor pan

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

# Anti-Frost Control

Specially developed by KAESER for portable compressors, Anti-Frost Control automatically adjusts operating temperature in relation to ambient. In combination with the optional tool lubricator, this feature prevents air tools from freezing up and ensures long-lasting, trouble-free operation.

Performance therefore remains constant, which significantly extends tool service life – even when working in extreme weather conditions.




# Compressed air treatment variants

| | | |
|---|---|---|
| **System A**<br>- Cool<br>- Condensate-free | Compressed air aftercooler → Centrifugal separator | Cool, condensate-free compressed air (100% saturated), **for compressed air tools and temporary replacement of stationary compressors** |

# KAESER KOMPRESSOREN – Sustainability guaranteed

To learn more about the new standards KAESER has established in reliability, efficiency and sustainability, visit us at **https://www.kaeser.com/int-en/company/sustainability**.

RETHINK RESEARCH REDUCE REPAIR



# Technical data

| Model | Compressor | | | | Diesel engine | | | System | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Flow rate | | Working pressure | | Make | Model | Rated engine power | Fuel tank capacity | Operating weight | Compressed air connection |
| | m³/min | cfm | bar | PSI | | | kW | l | kg | |
| **M 50** | 5 | 180 | 7 | 100 | Kubota | V 1505 - T | 32.5 | 80 | 735 | 2 x G ¾<br>1 x G 1 |

# Dimensions




**Height-adjustable version, unbraked**




**Fixed version, unbraked**




**Skid-mounted version**




**Stationary version**

Note: Dimensions may vary depending on version.

## More compressed air for less energy

# 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.




TÜVRheinland CERTIFIED
Management System
ISO 9001:2015
ISO 14001:2015
www.tuv.com
ID 9108616471

**Kaeser KOMPRESSOREN Pte. Ltd.**
81 Tech Park Crescent – Tuas Tech Park – 638067 Singapore
phone: (65) 6885 7733 – fax: (65) 6885 7700 – E-Mail: kaeser.sg@kaeser.com – www.kaeser.com

P-550SG Specifications subject to change without notice. /25