



# MOBILAIR M 43/M 50

## Portable Compressors

With the world-renowned SIGMA PROFILE  
Flow rate 4.2 to 5.0 m<sup>3</sup>/min (150 – 180 cfm)

# MOBILAIR M 43/M 50

## The perfect energy-saving combination: a Kubota engine and KAESER airend

Equipped with world-renowned SIGMA PROFILE rotors and directly driven by a water-cooled four-cylinder Kubota diesel engine, the low speed KAESER rotary screw airend plays a key role in assuring the exceptional performance of M 43/M 50 portable compressors. Direct drive eliminates the transmission losses associated with other systems, consequently providing more air with less fuel consumption.

## Maximum versatility

The MOBILAIR M 43/M 50 is the ideal choice for powering equipment such as breakers and impact borers. Meticulous construction and premium quality components ensure trouble-free operation in ambient temperatures ranging from -10 °C to +50 °C. A low temperature version is also available for use in lower ambient temperatures. Versatility is further enhanced by the chassis, as it can be equipped with or without an overrun brake and is available with a fixed or height adjustable tow bar. Stationary versions can be installed either on skids or machine mountings (all stationary systems feature a metal enclosure).

## Anti-Frost Control as standard

Without the optional compressed air aftercooler, the patented 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 significantly extends their service life.



## Lightweight

Powerful doesn't necessarily mean heavy: The M 43/M 50 has a low operational weight of less than 750 kg and is therefore incredibly simple to manoeuvre and transport. Moreover, its 80 litre diesel fuel capacity ensures that the compressor has more than enough power available to last an entire work shift. The same goes for the M 50 version with optional compressed air aftercooler.

## Separate air filters for engine and compressor

The air filters are specifically tailored to suit required air demand and therefore ensure dependable system operation. A further important design detail is the electric fuel pump which enables quick and simple deaeration of the diesel lines. Labour-intensive manual pumping is therefore eliminated.

## User-friendly operation

Reliable, gentle starts are guaranteed, even in cold temperatures, thanks to manual switch-over from pressure-free start-up to load operation and a start switch that features a pre-warming function. A pressure gauge and airend temperature display enable all information to be viewed at a glance.

## Lightweight – Quiet – Powerful





## Wide range of available variants



### PE enclosure

Made from roto-moulded polyethylene, the double-walled sound enclosure ensures long-term value retention and is both corrosion and scratch-resistant.



### Metal enclosure

The sound-proofed all-steel enclosure ensures long-term corrosion protection and value retention thanks to high quality zinc priming and tough powder coating. Stationary systems are always equipped with a metal enclosure.



### Alternative colours

The following special colours are available at short notice for the PE enclosure:

- Blue - Equivalent RAL 5017
- Red - Equivalent RAL 3020
- Orange - Equivalent RAL 2009
- Green - Equivalent RAL 6024

Other enclosure colours and custom paintwork for metal components are available upon request.



### Service-friendly

The wide-opening enclosure provides excellent component access and therefore greatly simplifies all servicing and maintenance tasks.

# 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 openings are sealed with screw plugs.

## Optional compressed air aftercooler

The compressed air aftercooler cools the compressed air to 7°C above ambient. Because the aftercooler is installed at an angle the condensate is able to easily drain away. This environmentally-friendly design prevents problems caused by freezing in winter and the condensate is evaporated using the hot exhaust gases from the engine.

## Hose reel

The pre-installed hose reel holds 20 m of lightweight hose which does not have to be fully reeled out for operation. As the hose is installed within the compressor unit, this not

only enhances hose service life and availability, but also protects it from damage (splitting, stretching, being run over) and contamination.

## Suitable for refinery use

The M 43 and M 50 are available with a certified spark arrestor for units intended for use in refineries. For added protection, the engine shut-off valve automatically shuts the machine down upon intake of combustible gases.

## Tool lubricator

If appropriate for the application, the M 43 and M 50 are optionally available with a tool lubricator for compressed air tools.

# Technical specifications

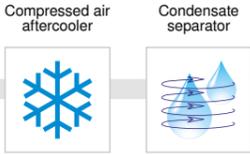
| Model | Compressor          |     |                  |     | 4-cylinder diesel engine (Water-cooled) |         |                    |                    | Complete unit      |                                |                                 |                                    |                       |
|-------|---------------------|-----|------------------|-----|---|---------|--------------------|--------------------|--------------------|--------------------------------|---------------------------------|------------------------------------|-----------------------|
|       | Flow rate           |     | Working pressure |     | Make                                    | Type    | Engine rated power | Speed at full load | Fuel tank capacity | Operating weight <sup>1)</sup> | Sound power level <sup>2)</sup> | Sound pressure level <sup>3)</sup> | Compressed air outlet |
|       | m <sup>3</sup> /min | cfm | bar              | PSI |   |         |                    |                    |                    |                                |                                 |                                    |                       |
| M43   | 4.2                 | 150 | 7                | 100 | Kubota                                  | V1505-T | 30.1               | 2800               | 80                 | 730                            | ≤98                             | 69                                 | 2 × G¾                |
| M50   | 5.0                 | 180 | 7                | 100 | Kubota                                  | V1505-T | 32.5               | 3000               | 80                 | 735                            | ≤98                             | 69                                 | 2 × G¾<br>1 × G½      |

<sup>1)</sup> Weight specifications for base machine on a chassis with height-adjustable tow bar

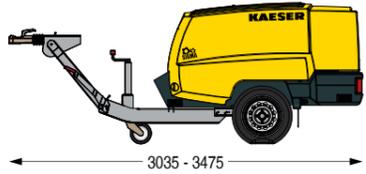
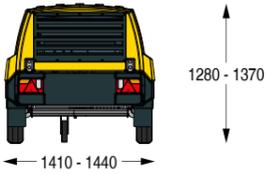
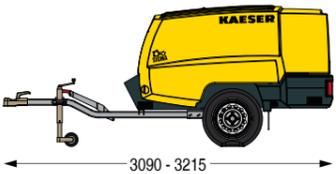
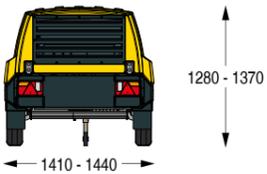
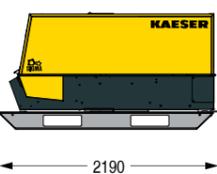
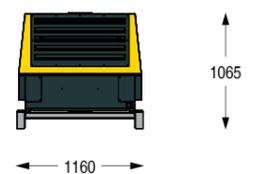
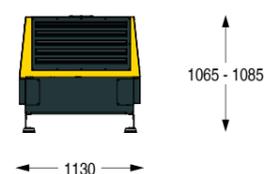
<sup>2)</sup> Guaranteed sound power level as per Directive 2000/14/EC

<sup>3)</sup> Measuring surface sound pressure level as per ISO 3744 (r=10m)

# Compressed air treatment systems

|                              |  |   |   |
|------------------------------|--|---|---|
| <b>Standard</b><br>M 43/M 50 | <b>Patented</b><br>Anti-Frost Control          |  | Automatically adjusts operating temperature in relation to ambient temperature to prevent compressed air tools from freezing up |
| <b>Optional</b><br>M 50      | <b>System A</b><br>- Cool<br>- Condensate free |  | Cool, condensate-free compressed air (100 % saturated), for driving air tools and temporarily replacing stationary compressors  |

# Dimensions

|                                      |   |   |
|--------------------------------------|---|---|
| <b>Version:</b><br>Height adjustable |  |  |
| <b>Version:</b><br>Fixed             |  |  |
| <b>Version:</b><br>Skid-mounted      |  |  |
| <b>Version:</b><br>Stationary        |  |  |

# The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners.

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.



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