KAESER COMPRESSORS

www.kaeser.com

Portable Compressors MOBILAIR M 36 / M 45

With the world-renowned SIGMA PROFILE

Free air delivery 3.9 to 4.2 m³/min



KAESER COMPRESSORS

Made in Germany

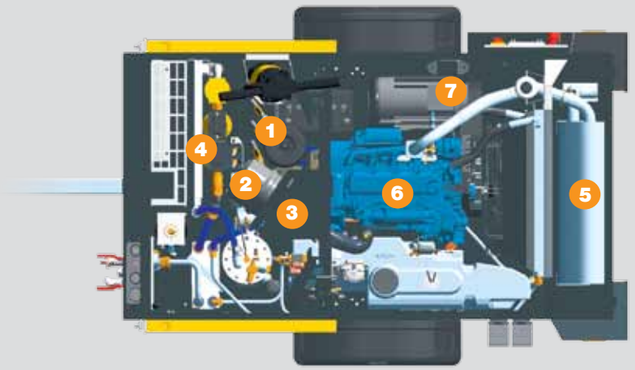
KAESER's renowned MOBILAIR range of portable compressors is manufactured in a state-of-the-art production facility located directly next to the KAESER main plant in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts TÜV (German Technical Inspection Agency) certified sound testing facilities for free-field sound level measurement, an advanced powder coating installation and highly efficient production logistics. With minimal turnaround time, KAESER's highly qualified personnel are able to assemble portable compressors of all sizes and equipment levels to suit our customers' specific needs.



Maximum versatility

The M 36 and M 45 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 air treatment components, a three-phase synchronous generator, 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 mountings.

A look under the enclosure



MOBILAIR M 45 / M 45-G / M 36-G

Maximum versatility

Large sound enclosure

Optimal component accessibility for ease of maintenance



Fully galvanised ALKO chassis

1000 kg axle load for M 45 without generator

Fully galvanised Knott chassis

1200 kg axle load for M 36 and M 45 with generator



Ambient temperature

Standard units are rated for ambient temperatures between -10 and +50° C. A version for lower ambient temperatures is also available.

1. Compressor air filter
2. Engine air filter
3. SIGMA airend
4. Compressed air treatment (optional)
5. Internal exhaust silencer (protected from potential damage)
6. Diesel engine
7. Generator (Optional)



The perfect energy-saving combination: Kubota engines and KAESER rotary screw compressors

The M 36 and M 45 feature a specially designed energy-saving SIGMA profile airend, which is directly driven by a water-cooled four-cylinder Kubota diesel engine. Direct drive eliminates the transmission losses associated with other systems, consequently providing more air for less fuel. A fuel filter with water separation capability further enhances reliability and is fitted as standard.

MOBILAIR M 45 / M 45-G / M 36-G – Maximum versatility



Simple to operate

The user-friendly control and instrument panel enables all information to be viewed at a glance. Features include automatic monitoring and shutdown and pre-heat function for gentle start in cold conditions. Clear icons further enhance user-friendliness.

Cool, clean compressed air

The compressed air is cooled to 7 °C above ambient temperature. Accumulated condensate is able to drain away easily, as the compressed air cooler is installed at an angle, whilst the hot exhaust gasses from the motor are also used to aid condensate evaporation. This design consequently ensures reliable frost prevention during the winter months. Additional air treatment components need to be installed downstream from the after-cooler and centrifugal separator (e.g. filter combinations for concrete cleaning as per ZTV-ING) in order to achieve compressed air of a specified quality class (see next page). The differential pressure indicator enables filter status to be monitored quickly and easily.





Dedicated intake filter

Generously sized for increased reliability and operational life, also enables quick on-site filter change.



Patented Anti-Frost Control

Specially developed for portable compressors, KAESER's patented Anti-Frost Control automatically regulates operating temperature in relation to ambient. Together with the optional tool lubricator, this not only prevents tools from freezing, but also extends air tool service life and availability.





Large capacity, transparent fuel tank

When fully filled, the tank carries sufficient fuel for an entire work shift without the need for refuelling. Diesel line de-aeration is made simple via the fuel feed pump (Start switch).

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.





Generator

The M 36's 3-phase generator (IP54) delivers impressive power of 13 kVA, whilst the M 45's provides 8.5 kVA. The brushless generators are maintenance-free and, depending on energy requirement, can be switched from continuous operation to energy-saving automatic start mode.

Generator version:

The switch panel – which can be equipped with a cover flap if required – features splash-protected sockets in accordance with IP 44 and a lockable main switch. The safety cut-out system with insulation monitoring makes earthing superfluous.





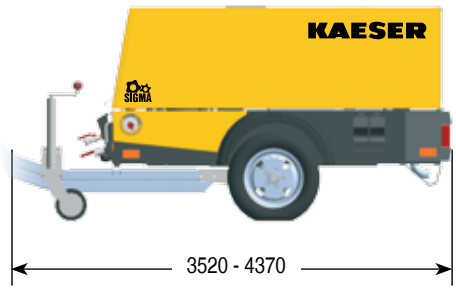
Compressed air treatment systems

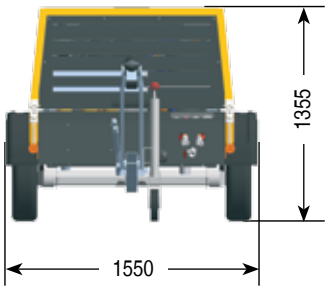
System A • Cool • Condensate-free	Compressed air aftercooler → Centrifugal separator	Cool, condensate-free compressed air (100 % saturated), **for driving air tools and temporarily replacing stationary compressors**
System F • Cool • Condensate-free • Filtered	Compressed air aftercooler → Centrifugal separator → Filter	Cool, condensate-free compressed air (100% saturated), **free from dirt particles, technically oil-free in accordance with applicable regulations**
System B • Warmed • Dried	Anti-Frost Control → Compressed air aftercooler → Centrifugal separator → Heat recovery	Dried compressed air, warmed to at least 20 °C, **for working at sub-zero temperatures and with longer air lines**
System G • Warmed • Dried • Filtered	Anti-Frost Control → Compressed air aftercooler → Centrifugal separator → Filter → Heat recovery	Dried compressed air, warmed to at least 20 °C, **free from dirt particles and technically oil-free in accordance with applicable regulations**
Fresh air As partial flow	Fresh air filter	Odour-free fresh air connected via a **separate** quick-release coupling (Available only in combination with System F or System G variants)

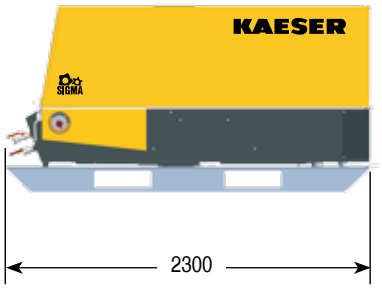
Additional air treatment systems for the MOBILAIR M 36 and M 45 are available upon request. Please contact KAESER for further details.

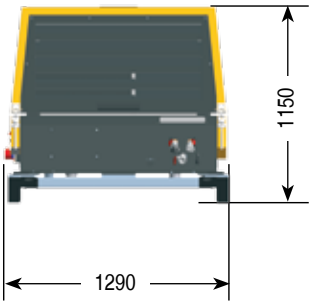
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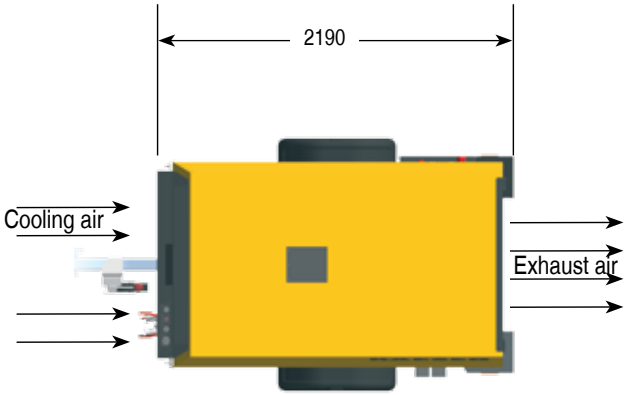
Dimensions

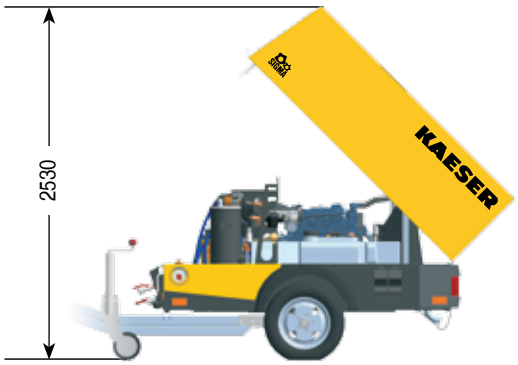












Technical specifications – MOBILAIR M 36 / M 45

Model		M 45		M 45-G 8.5 kVA		M 36-G 13 kVA
Effective FAD	m³/min	4.2	4.15	4.2	4.15	3.9
At working pressure	bar	7	10	7	10	7
Drive engine (water-cooled)		Kubota V2203				Kubota V2403
Rated motor power	kW	35.4				36
Speed at full load	rpm	2800				2600
Fuel tank capacity	l	80				80
Operational weight	kg	995		1125		1145
Permitted total weight (Axle load)	kg	1000		1200		1200
Sound power level*	dB(A)	≤98		≤98		≤98
Sound pressure level**	dB(A)	69		69		67
Compressed air connection		2x G¾, 1x G1				
Optional air treatment system		Available				

*) As per directive 2000/14/EC – Stage 2, guaranteed sound power level – **) Surface sound pressure level to ISO 3744, (r = 10 m)

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KAESER – The world is our home

As one of the world's largest manufacturers of rotary screw compressors, 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 all products operate at the peak of their performance at all times and provide maximum availability.



LGA InterCert
Certified QM/EM System
ISO 9001:2008 / ISO 14001:2004

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P-536ED.4/14 Specifications are subject to change without notice