



MOBILAIR® M 36/M 45

Portable Compressors

With the world-renowned SIGMA PROFILE
Flow rate 3.9 to 4.2 m³/min (135 – 150 cfm)

MOBILAIR® M 36/M 45

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 M36/M45 portable compressors. Direct drive eliminates the transmission losses associated with other systems, consequently providing more air with less fuel consumption. A fuel filter with water separation capability further enhances reliability and is equipped as standard.

Durable and versatile

The M36 and M45 are the perfect choice when a specialist compressed air solution is needed, as they can be precisely tailored to meet the needs of the specific 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 mounts.

Ambient temperature

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

Excellent accessibility, optimum serviceability

Thanks to intelligent component layout, all maintenance points are easily accessible via the large gull-wing doors, which makes service work fast and efficient. Optional custom service contracts are also available.

Made in Germany

MOBILAIR portable compressors are manufactured at KAESER's headquarters located 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 (German Technical Inspection Agency) certified sound testing area for free-field sound level measurement, a complete powder-coating facility and efficient manufacturing logistics.



The portable powerhouse

The synchronous three-phase generator (IP54) integrated in the M45 delivers 8.5 kVA, whilst that in the M36 supplies 13 kVA. The brushless generators are maintenance-free and, depending on power consumption, can be toggled from continuous operation to energy-saving automatic start-up.

The switch panel – which can be equipped with a lockable cover flap if required – features IP44 splash-protected sockets and a lockable main switch. The safety cut-out system with insulation monitoring makes earthing superfluous.

Exceptional power and versatility





Simple to operate

The user-friendly control and instrument panel enables all information to be viewed at a glance. Features include continuous monitoring and automatic shutdown in the event of malfunction, as well as a gentle start option for cold conditions. Easy to understand icons assure straightforward user navigation.



Dedicated intake filter

The separate intake filters for the compressor and engine are optimally dimensioned for enhanced reliability and service life and can be changed quickly and easily on-site.



Large capacity, transparent fuel tank

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



Patented Anti-Frost Control

For M36/M45 models not equipped with compressed air treatment or with compressed air return heating, KAESER's Anti-Frost Control automatically regulates operating temperature in relation to ambient. Together with an optional tool lubricator, this prevents compressed air tools from freezing up, thereby enhancing both availability and durability.

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 holes are sealed with screw plugs.

Compressed air treatment

With the optional aftercooler, the compressed air is cooled to 7 °C above ambient temperature. The condensate is removed via a centrifugal separator and is subsequently evaporated by the hot exhaust gases 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 return heating purposes.

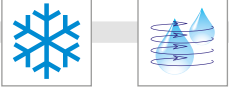
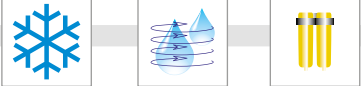
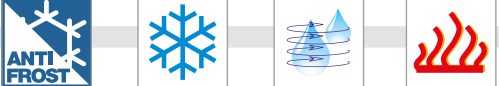
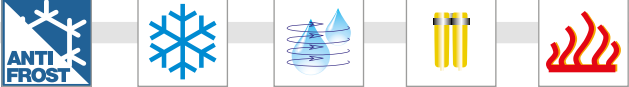

Suitable for refinery use

A certified spark arrester is available for refinery applications. The engine shut-off valve automatically shuts the unit down upon intake of combustible gases.

Hose reel

The pre-installed hose reel holds 20 m of lightweight hose which does not have to be fully reeled out for operation. Proper storage increases hose availability and service life and also protects it from damage (kinking, stretching, being run over) and soiling.

Compressed air treatment system variants

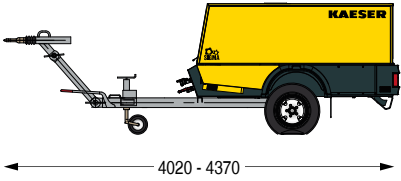
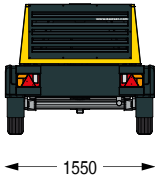
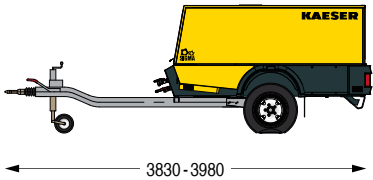

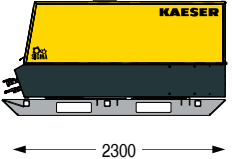
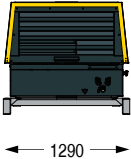
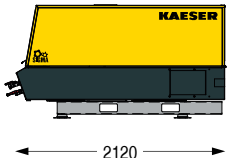
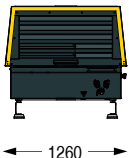
<p>System A</p> <ul style="list-style-type: none"> - Cool - Condensate-free 	<p>Aftercooler Centrifugal separator</p> 	<p>Cool, condensate-free compressed air (100 % saturated), for compressed air tools and temporarily replacing stationary compressors</p>
<p>System F</p> <ul style="list-style-type: none"> - Cool - Condensate-free - Filtered 	<p>Aftercooler Centrifugal separator Filter</p> 	<p>Cool, condensate-free compressed air (100 % saturated), free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>System B</p> <ul style="list-style-type: none"> - Warmed - Dried 	<p>Anti-Frost Control Aftercooler Centrifugal separator Return heating</p> 	<p>Dried compressed air, warmed to at least 20 °C, for working at sub-zero temperatures and with longer air lines</p>
<p>System G</p> <ul style="list-style-type: none"> - Warmed - Dried - Filtered 	<p>Anti-Frost Control Aftercooler Centrifugal separator Filter Return heating</p> 	<p>Dried compressed air, warmed to at least 20 °C, free from contaminant particles and technically oil-free in accordance with applicable regulations</p>
<p>Fresh air</p> <p>As partial flow</p>	<p>Activated charcoal filter</p>  <p>Does not provide protection against carbon monoxide (CO) or other noxious gases</p>	<p>Odour-free fresh air connected via a separate quick-release coupling</p> <p>(Only in combination with F or G systems)</p>

Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Flow rate		Gauge working pressure		Make	Type	Engine rated power	Speed at full load	Fuel tank capacity	Operational weight ²⁾	Sound power level ³⁾	Sound pressure level ⁴⁾	Compressed air outlet
	m ³ /min	cfm	bar	PSI									
M45	4.2 4.15	150 145	7 10	100 145	Kubota	V2203	35.4	2800	80	1060	≤98	69	2 x G 1¼, 1 x G 1
M45 With 8.5 kVA generator ¹⁾	4.2 4.15	150 145	7 10	100 145	Kubota	V2203	35.4	2800	80	1125	≤ 98	69	2 x G 1¼, 1 x G 1
M36 With 13 kVA generator	3.9	135	7	100	Kubota	V2403	36	2600	80	1145	≤ 98	68	2 x G 1¼, 1 x G 1

- ¹⁾ Other variants possible
²⁾ Weight applies to standard unit without compressed air treatment, on chassis, with height-adjustable tow bar
³⁾ Guaranteed sound power level per Directive 2000/14/EC
⁴⁾ Measuring surface sound pressure level as per ISO3744 (r=10m)

Dimensions

Version: Height adjustable	 4020 - 4370	 1550 1355
Version: Fixed	 3830 - 3980	 1550 1355
Version: Skid-mounted	 2300	 1290 1150
Version: Stationary	 2120	 1260 1170 - 1235

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 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 every product operates at the peak of its performance at all times and provides maximum availability.



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