



MOBILAIR® M 27/M 30/M 31

Portable Compressors

With the world-renowned SIGMA PROFILE
Flow rate 1.6 to 3.15 m³/min (57 to 110 cfm)

MOBILAIR® M 27/M 30/M 31

Compact, service-friendly and powerful, MOBILAIR portable compressors impress not only on account of their high delivery volumes – they are also exceptionally easy to handle and offer a wide variety of equipment options, making these efficient machines genuine all-rounders. The M 27 and M 30 are available with Emissions Stage V for Europe and Tier 4 Final for North America, whilst the M 31 is designed specifically for the export market.

Applying the pressure

As with all KAESER rotary screw compressors, the beating heart of the M 27/M 30 and M 31 series models is a premium-quality airend equipped with rotors featuring the world-renowned SIGMA PROFILE, which guarantee more compressed air for less energy. The standard working pressure for M 27 and M 31 models is 7 bar. Versions with 10, 12 and 14 bar are also optionally available, for which maximum pressure can be infinitely adjusted down as far as 6 bar via a manual wheel control.

Compact powerhouse

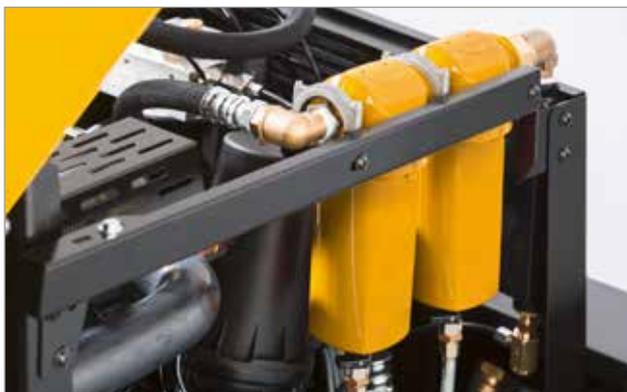
The M 27 and M 31 provide more than just a dependable supply of compressed air. When specified with the optional 6.5 kVA generator, they are transformed into portable power plants, capable of providing compressed air and/or electricity as required.

Compressed air quality

An aftercooler with condensate separator is available for applications requiring cool, dry compressed air. When specified without compressed air treatment, all three models feature Kaeser's patented Anti-Frost Control as standard. Together with the optional tool lubricator, this feature reliably prevents compressed air tools from freezing up, even at low outdoor temperatures.

Useful extras

A multitude of cleverly designed options make these portable compressors even more versatile: features such as a hose reel with 20 m of lightweight hose, a toolbox for convenient storage of work tools and a closed floor pan. For refinery applications, a version featuring a spark arrester and engine shut-off valve is available. A check valve can be specified for sandblasting applications.



Technically oil-free compressed air

A filter combination is available for applications requiring technically oil-free compressed air, such as line flushing or concrete restoration.

(Please refer to the "Compressed air treatment variants" table on page 10)

Compact and versatile





**MOBILAIR
M 30**

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Efficient and durable



Powerful, energy-saving team

The KAESER rotary screw airend with its energy-saving SIGMA PROFILE rotors is driven via integrated gearing by a durable, water-cooled, three-cylinder diesel engine from Kubota. An electric fuel pump ensures simple venting of the fuel lines.



Service-friendly

A wide-opening enclosure provides excellent access to all maintenance-relevant components, making service work a breeze and thereby ensuring maximum compressed air availability.



Impressive endurance

The transparent PE fuel tank fits perfectly into the available space and holds sufficient diesel for long work shifts without need of refuelling. A cleaning aperture located in the floor pan ensures trouble-free operation of the machine.



Cool, dry compressed air

The compressed air aftercooler cools the compressed air down to 7°C above ambient. Because the aftercooler is installed at an angle, any accumulating condensate is reliably drained away. This environmentally friendly design prevents problems caused by freezing in winter, whilst the hot exhaust gases from the engine serve to evaporate the condensate.

A variety of equipment options for maximum versatility



Bodywork variants

Stationary versions are always equipped with a metal enclosure, whilst portable versions are available either with a soundproof, galvanised and powder-coated steel enclosure or a double-walled sound enclosure constructed from roto-moulded polyethylene.



Generator option

The brushless, maintenance-free, 6.5 kVA synchronous generator (IP54) can be switched over from continuous operation to energy-saving automatic start, depending on current power requirements. This option transforms the M 27/M 31 into a flexible, portable power plant for your construction site.



Easy to operate

The low position of the operating panel on versions equipped with a metal enclosure makes these units perfect for installation on a flat-bed truck. Straightforward operation is ensured thanks to easy-to-use icons and a simple start switch.



Safety first

On versions of the M 27 and M 31 equipped with PE enclosure, the generator control panel is safely embedded into the polyethylene moulding that protects the rear corners of the unit. Additional safety features include sockets with IP44 protection, a lockable main switch and protective separation with insulation monitoring.







Available equipment

Oil temperature control as standard

Automatic thermostatic valve for a short warm-up phase, plus swift achievement and reliable maintenance of optimal operating temperature; no excessive condensate accumulation in compressor oil circuit; long-lasting separator cartridge; units without air treatment or with System B additionally feature Anti-Frost Control.

Simple operation

Start switch with glow plug preheating function; operation via intuitive icons; fully automatic monitoring; automatic shutdown upon detection of a fault; operating hours, working pressure and airtend discharge temperature display; main switch housed inside lockable enclosure.

Durable AL-KO chassis

Fully galvanised chassis; with or without overrun brake; with or without adjustable tow bar.

Ambient temperature

Designed as standard for operation in temperatures ranging from -10°C to +45°C; low-temperature version with engine coolant preheating available for extreme cold-starts.

Separate air filter

Separate, optimally dimensioned air filters for compressor and motor guarantee enhanced reliability and service life; filters can quickly be cleaned or replaced on site.

Alternative colours

For PE enclosures, the following special colours are readily available:

- Blue – Equivalent to RAL 5017
- Green – Equivalent to RAL 6024
- Red – Equivalent to RAL 3020
- Orange – Equivalent to RAL 2009
- White – Equivalent to RAL 9010

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

Compressed air treatment 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 temporary replacement of 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 contaminants 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 Reheating</p>	<p>Dried compressed air, reheated to a min. of 20 °C, for working at sub-zero temperatures and with longer compressed air lines</p>
<p>System G</p> <ul style="list-style-type: none"> - Warmed - Dried - Filtered 	<p>Anti-Frost Control Aftercooler Centrifugal separator Filter Reheating</p>	<p>Dried compressed air, reheated to a min. of 20 °C, free from contaminants and technically oil-free in accordance with applicable regulations</p>

Technical specifications

Model	Compressor				3-cylinder diesel engine (water-cooled)				Complete system				
	Flow rate		Gauge working pressure		Make	Model	Rated engine power	Speed at full load	Fuel tank capacity	Operating weight	Sound power level	Sound pressure level	Compressed air outlet
	m ³ /min	cfm	bar	PSI									
M27	2.6	92	7	100	Kubota	D1105	17.9	2850	40	575	≤ 98	68	2 x G¾
	2.1	74	10	145									
	1.9	67	12	175									
	1.6	57	14	200									
M30	2.9	100	7	100	Kubota	D1105	17.9	2875	40	580	≤ 98	68	2 x G¾
M31	3.15	110	7	100	Kubota	D1105T	24.1	2900	40	580	Export		2 x G¾
	2.6	92	10	145									
	2.3	81	12	175									
	1.9	67	14	200									
With 6.5 kVA generator													
M27	1.9	67	7	100	Kubota	D1105	17.9	2850	40	625	≤ 98	68	2 x G¾
M31	2.0 ⁴⁾	71 ⁴⁾	7	100	Kubota	D1105T	24.1	2900	40	630	Export		2 x G¾
	3.0	105											

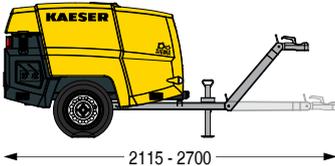
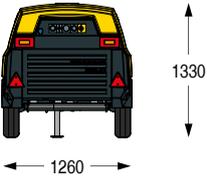
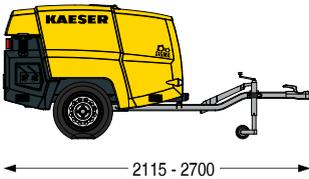
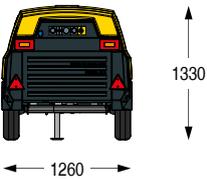
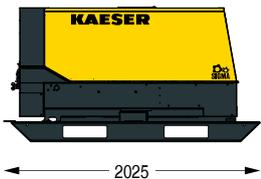
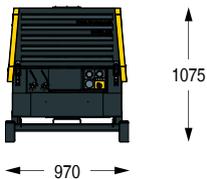
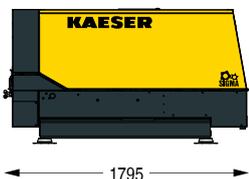
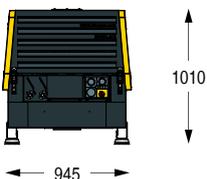
¹⁾ Specified weight applies to standard unit with PE enclosure, unbraked chassis and height-adjustable tow bar, without compressed air treatment

²⁾ Guaranteed sound pressure level L_{WA} as per EU Directive 2000/14/EC

³⁾ Surface sound pressure level L_{pA} measured as per ISO 3744 ($r = 10\text{ m}$)

⁴⁾ At full current draw

Dimensions

Version: Height-adjustable tow bar		
Version: Fixed tow bar		
Version: Skid-mounted		
Version: Stationary		

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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