

Portable Compressors MOBILAIR M 80 / M 100

With the world-renowned SIGMA PROFILE 

FAD 8.1 / 10.2 m³/min



Worldwide sales and service network

KAESER is one of the world's foremost compressor manufacturers and providers of compressed air systems. The German company's products are renowned throughout the world for their outstanding quality, advanced technology and exceptional efficiency.

Ensuring global product support and customer satisfaction, KAESER is represented in every major industrial nation throughout the world by a comprehensive network of international offices and authorised distributors.



MOBILAIR M 80 / M 100 – Superior Power and Performance

The M 80 and M 100 are in a class of their own when it comes to versatility, as they can be precisely tailored to meet the needs of the relevant application. Options include air treatment components, a three-phase synchronous generator (M 80), a choice of a fully galvanised chassis with overrun brake and a fixed or height adjustable tow bar, or stationary versions either mounted on skids or machine mountings. Standard models can operate in ambient temperatures ranging from -10 °C to +50 °C, whilst low temperature versions are available for temperatures down to -25 °C.

Fully galvanised ALKO chassis
Tow bar height can be adjusted from 420 to 1080 mm



Generator:
The M 80 is optionally available with a 8.5 or 13 kVA 3-phase generator.



Large capacity, transparent fuel tank:
When fully filled, the tank carries sufficient fuel for an entire work shift without the need for refuelling. For ease of operation, an automatic shut-down feature is activated when the fuel level becomes too low.



Dedicated intake filter for motor and air end:
Generously sized for increased reliability and operational life, also enables quick on-site filter change.



Tool storage space:
For units equipped with a generator, the storage cases that are otherwise installed are replaced by the tool box shown in the image.



Adjustable proportional controller with hand wheel:
Continuously adjustable pressure, enhanced flexibility

**) available with 10 to 14 bar versions*

Large gull-wing doors:
Optimal component accessibility for ease of maintenance.



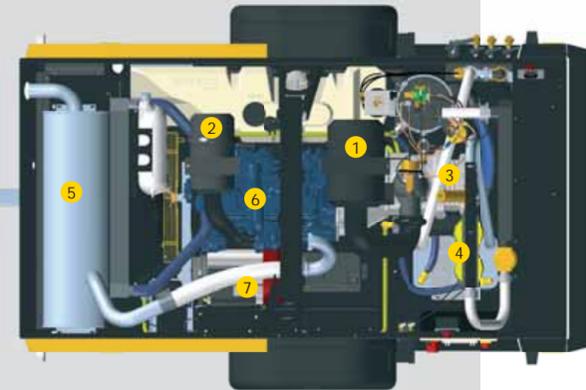
User-friendly operation:
The user-friendly control and instrument panel - which can be equipped with a cover flap if required - enables all information to be viewed at a glance. Features also include automatic monitoring and shutdown. The combination of the pre-heat function start switch and the ability to switch over manually from idling to full load operation ensures a reliable, gentle start when operating the unit in cold ambient conditions.



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.



- 1 Compressor air filter
- 2 Engine air filter
- 3 SIGMA air end
- 4 Compressed air treatment (Optional)
- 5 Damage-protected internal exhaust silencer
- 6 Diesel engine
- 7 Generator (Optional)



Options:

The "Portable Powerhouse"



The M 80 is optionally available with a 8.5 or 13 kVA 3-phase generator (IP54). The brushless generator is maintenance-free and, depending on energy requirement,

can be switched from continuous operation to energy-saving automatic start mode.

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-SIB) in order to achieve compressed air of a specified quality class (see last page). The differential pressure indicator enables filter status to be monitored quickly and easily.



The perfect energy-saving combination: Kubota engines and KAESER air ends

The M 80 and M 100 feature a specially designed energy-saving SIGMA profile air end, 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.



Patented Anti-Frost Control

Specially developed for portable compressors, KAESER's patented Anti-Frost Control automatically regulates operating temperature in

relation to ambient. This not only prevents tools from freezing, but also extends air tool service life and availability.

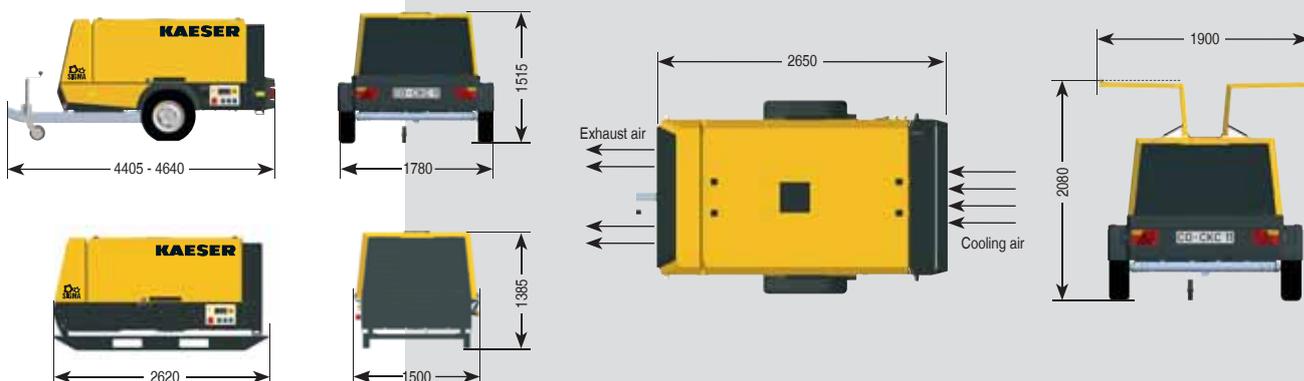


Technical specifications – MOBILAIR M 80 / M 100

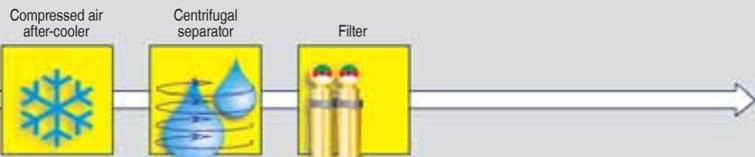
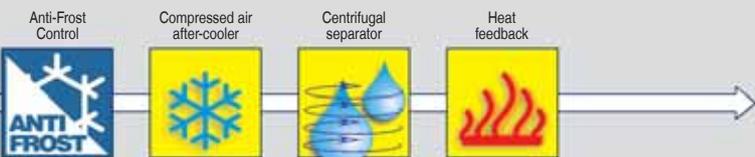
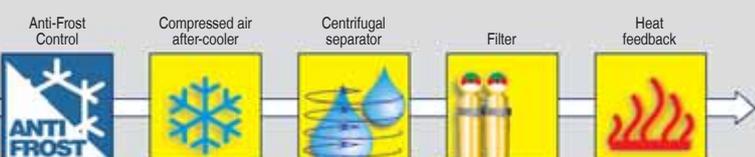
Model	M 80				M 80-G 8.5 kVA			M 80-G 13 kVA		M 100				
FAD	m ³ /min	8.1	6.8	6.1	5.5	8.1	6.8	5.5	8.1	6.8	10.2	8.5	7.2	6.4
At working pressure	bar	7	10	12	14	7	10	12	7	10	7	10	12	14
Drive motor (water-cooled)		Kubota V3300 Di-T								Kubota V3800 Di-T				
Rated motor power	kW	58.2								70.2				
Speed at full load	rpm	2450								2600				
Idling speed	rpm	1800								1800				
Fuel tank capacity	l	150								150				
Compressor cooling fluid volume	l	22								22				
Weight, operational	kg	1480 (without generator)								1495				
Permitted total weight (Axle load)	kg	1600								1600				
Sound power level*	dB(A)	≤99								≤99				
Sound pressure level**	dB(A)	68								69				
Air connection		3 x G¾, 1 x G 1½												
Optional air treatment equipment		Available												

*) Guaranteed sound power level to directive 2000/14/EU

**) Surface sound pressure level to ISO 3744, (r = 10 m)



Air treatment systems

<p>System A</p> <ul style="list-style-type: none"> • Cool • Condensate-free 		<p>Cool, condensate-free compressed air (100 % saturated), for powering air tools and temporarily replacing stationary compressors</p>
<p>System F</p> <ul style="list-style-type: none"> • Cool • Condensate-free • Filtered 		<p>Cool, condensate-free compressed air (100 % saturated), free from dirt particles and oil in accordance with applicable regulations</p>
<p>System B</p> <ul style="list-style-type: none"> • Warmed • Dried 		<p>Dried compressed air, warmed to min. 20 °C, for working at sub-zero temperatures and with long air lines</p>
<p>System G</p> <ul style="list-style-type: none"> • Warmed • Dried • Filtered 		<p>Dried compressed air, warmed to min. 20 °C, free from dirt particles and oil in accordance with applicable regulations</p>
<p>Breathing-quality air</p> <p>Additional filtration to provide partial flow as breathing air</p>		<p>Breathing air connected via a separate quick-release coupling</p> <p>(Only in combination with one of the above mentioned air treatment systems)</p>

Additional air treatment systems for the MOBILAIR M 80 and M 100 are available upon request. Please contact Kaeser for further details.