KAESER COMPRESSORS®

MOBILAIR® M 82

Portable Compressor
With the world-renowned SIGMA PROFILE
Flow rate 5.5 to 8.4 m³/min (195 – 295 cfm)

www.kaeser.com

MOBILAIR® M 82

The powerful combination of a highly efficient KAESER SIGMA PROFILE rotary screw airend and an energy-saving engine, certified in accordance with EU Directive 2016/1628, Stage V, provides impressive fuel efficiency and super-clean performance. Together with other innovative features, this compact powerhouse is yet another dependable and efficient compressed air partner from KAESER.

Versatile

The MOBILAIR M 82 can be perfectly tailored to meet the specific needs of the individual application, thanks to a wide range of optional compressed air treatment components. Moreover, the option of a chassis with overrun brake, as well as a stationary version mounted on skids or machine feet, means that the M 82 is ideally suited to all working environments.

Safe and simple

An electronically controlled motor starting function, coupled with the ability to switch over manually from unloaded start to full load operation, ensures a reliable start-up when operating in cold conditions. Furthermore, the monitoring system can automatically shut down the compressor if needed.

Durable

The MOBILAIR M 82 is well equipped to meet the demands of continuous construction site operation, even under the harshest of climatic conditions. The standard version, for example, is capable of operating in ambient temperatures from -10 °C to +45 °C. The optional low-temperature version features engine coolant preheating, whilst synthetic cooling fluid is used in the airend.

Made in Germany

MOBILAIR portable compressors are manufactured at KAESER's headquarters 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-certified sound testing area for free-field sound level measurement, a premium powder-coating facility and efficient manufacturing logistics.

M 82: Generator option

The optional synchronous three-phase generator (IP 54) is available with power of 8.5 or 13 kVA. These brushless, maintenance-free generators can be switched over from continuous operation to energy-saving automatic start, depending on power requirement. The generator control panel can be equipped with a lockable cover flap if required.

Convenient layout and accessibility


KAESER
M 82
SIGMA

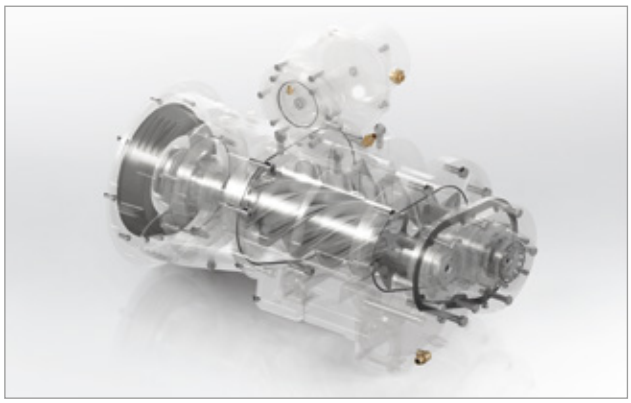
Pure power and performance

Low emissions

The M 82 is certified in accordance with EU Directive 2016/1628, Stage V, to ensure clean-air operation wherever it is used – not just in Low Emission Zones. Furthermore, with a diesel particulate filter fitted as standard, the MOBILAIR M 82 meets the stringent requirements of the Swiss Clean Air Act.

SIGMA CONTROL SMART

This advanced compressor controller ensures optimised compressed air availability, fuel efficiency and exhaust gas management using state-of-the-art electronic engine management. Functions include an operating mode display, intuitive user interface plus monitoring and system diagnostics.



SIGMA PROFILE airend

At the heart of every M 82 system lies a premium-quality airend featuring KAESER's energy-saving SIGMA PROFILE rotors. The airend's optimised flow characteristics enable it to deliver more compressed air for less energy.

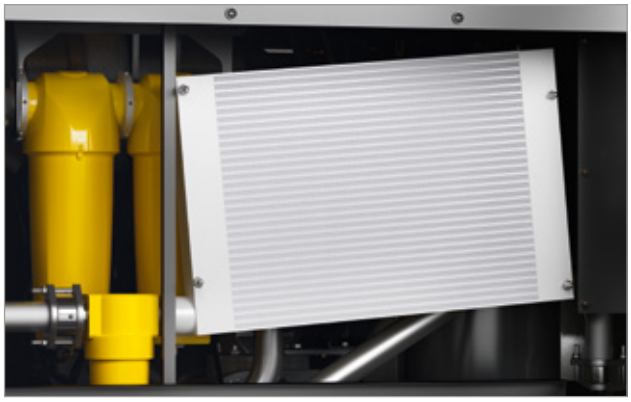
Service-friendly and easy to access

Thanks to intelligent component layout, all maintenance points are easily accessible via the large wing doors, making service work quick and efficient. Optional customised service contracts are also available.

Details that count

Anti-Frost Control

Specially developed by KAESER for portable compressors, the 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.

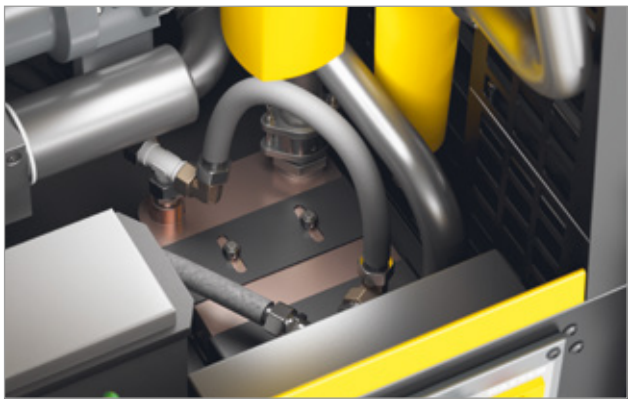


Cool and condensate-free

The compressed air is cooled to 7 °C above ambient temperature. Installed at an angle, the compressed air aftercooler ensures frost-proof performance even at the coldest times of the year. The axial centrifugal separator reliably removes the condensate, which is then evaporated.

Oil-lubricating or oil-free?

Depending on the application, the MOBILAIR M 82 can be optionally equipped with a tool lubricator for lubricating compressed air tools, or with a microfilter combination for blasting work requiring technically oil-free compressed air.



Dry compressed air

The plate-type heat exchanger reheats the cooled compressed air using heat from the compressor cooling fluid. This prevents condensation from forming outside the unit when the compressed air cools.

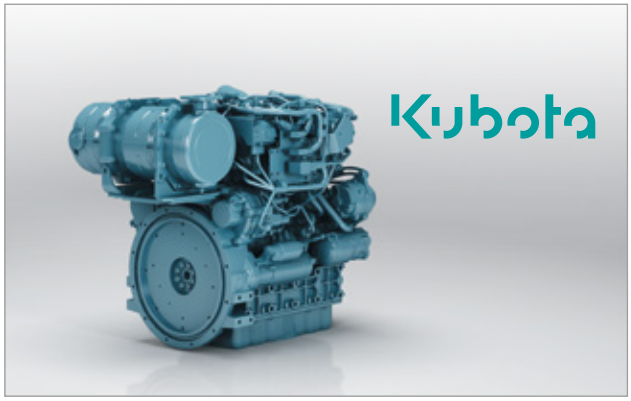
Always the right choice

Heat exchanger bypass

Infinitely variable compressed air discharge temperatures are optionally available via a ball valve in the plate-type heat exchanger, which is particularly useful for blasting applications.

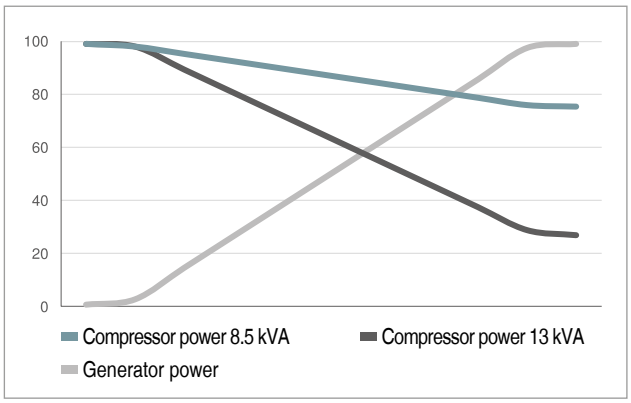
Suitable for use in refineries

The M 82 is available with a certified spark arrestor for refinery applications. In addition, the engine shut-off valve automatically shuts down the unit upon intake of combustible gases to ensure maximum safety.



M 82 – Kubota engine

Assuring clean air not just in Low Emission Zones, a diesel particulate filter is fitted downstream from the Kubota engine as standard. It is therefore certified in accordance with EU Directive 2016/1628, Stage V and US exhaust emissions standard EPA Tier 4 Final.



Perfect generator control

Ensuring perfect interplay with the engine management system, the M 82's advanced SIGMA CONTROL SMART compressor controller delivers maximum compressed air availability relative to power requirement.

Available equipment

Closed floor pan

The closed floor pan immediately catches any liquids, thereby preventing ground contamination in environmentally sensitive zones. All drainage holes are sealed with screw plugs.

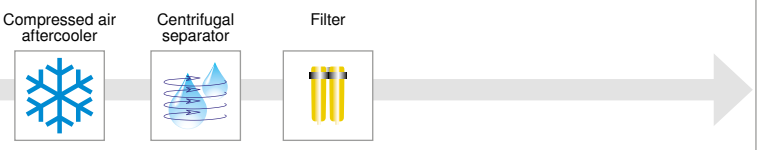
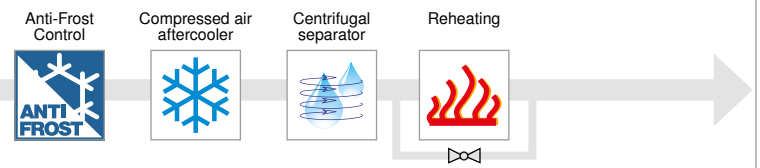
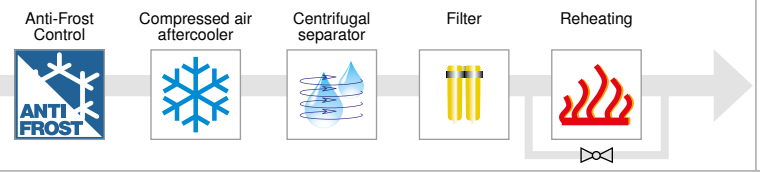
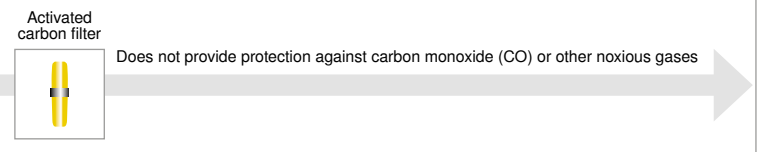
Pressure variants

Models are available in a variety of pressure versions, ranging from 7 to 14 bar. Pressure can easily be reduced in increments of 0.5 bar down to 6 bar, using the SIGMA CONTROL SMART's simple arrow keys. Pressure adjustment can also be electronically disabled to prevent unauthorised changing of operating parameters.

Industrie 4.0 @ MOBILAIR

With the TELEMATICS 24 option, Industrie 4.0 comes to the construction site. Optionally available for various countries and following approval of the data usage contract, KAESER can equip the M 82 ex works – at no extra cost – with a modem and connect it to the telematics portal. The best part: KAESER pays the portal fees for 24 months. You can therefore view operating data, current messages and system location online.
Through anonymous evaluation of the machine data by KAESER, you help to make system operation and usage even more efficient and reliable.

Compressed air treatment variants

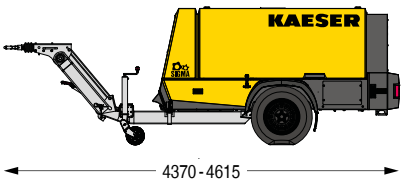
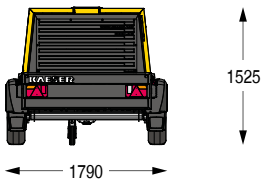
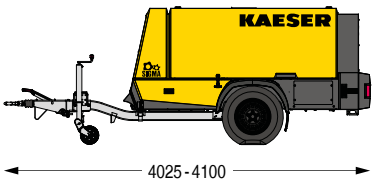
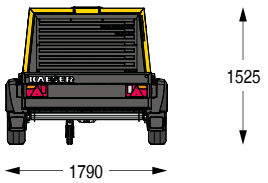
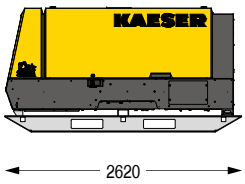
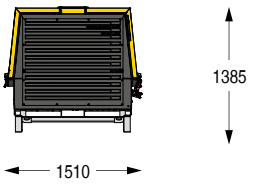
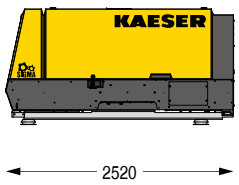
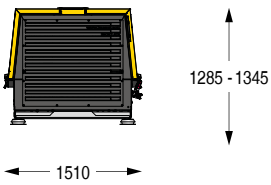
System A - Cool - Condensate-free		Cool, condensate-free compressed air (100% saturated), **for compressed air tools and temporary replacement of stationary compressors**
System F - Cool - Condensate-free - Filtered		Cool, condensate-free compressed air (100% saturated), **free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)**
System B - Warmed - Dried		Dried compressed air, reheated to a min. of 20°C, **for working at sub-zero temperatures and with longer compressed air lines**
System G - Warmed - Dried - Filtered		Dried compressed air, reheated to a min. of 20°C, **free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)**
Fresh air As partial flow		Odour-free fresh air connected via a **separate** quick-release coupling (Only in combination with F or G systems)

Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Flow rate		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
	m³/min	cfm	bar	PSI			kW	rpm	l	kg [1]	dB(A) [2]	dB(A) [3]	
M 82	8.4 6.8 6.1 5.5	295 240 215 195	7 10 12 14	100 145 175 200	Kubota	V3307-CR-T	54.6	2400	140	1580	≤ 98	67	1 x G 1½, 3 x G ¾

[1] Applies to standard unit incl. chassis with overrun brake, without air treatment
[2] Guaranteed sound power level as per 2000/14/EC
[3] Measuring surface sound pressure level as per ISO 3744 (r: 10m)

Dimensions

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

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 wholly owned 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 the peak of its performance at all times, providing optimal efficiency and maximum availability.

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO 50001:2018
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KAESER KOMPRESSOREN SE
P.O. Box 2143 – 96410 Coburg – GERMANY – Tel +49 9561 640-0 – Fax +49 9561 640-130
E-mail: productinfo@kaeser.com – www.kaeser.com

P-581ED Specifications subject to change without notice. 8/22