KAESER COMPRESSORS®



MOBILAIR M 500-2

Portable Compressor
Two-stage oil-free compression
Flow rate 38 to 45.8 m³/min (1340 – 1600 cfm)

www.kaeser.com

MOBILAIR M 500-2

Unrivalled performance for demanding applications

Fuel-efficient, innovative, and environmentally compatible, the oil-free MOBILAIR M 500-2 sets new standards for absolute dependability in compressed air supply. Whether deployed for maintenance and conversion work, in power stations, or within sensitive sectors such as automotive, food, pharmaceutical, or petrochemical production, this powerful compressed air giant steps in wherever conventional solutions reach their limits. Innovative engineering and fuel-saving operation come together in a carefully considered, environmentally responsible design – ideal for demanding applications and the highest safety standards.

The integrated SIGMA CONTROL MOBIL 2 compressor controller precisely matches engine speed to the required delivery volume and selected pressure anywhere between 3.0 and 10.3 bar – accurately and efficiently as the application demands. The compressed air discharge temperature can also be individually pre-selected, ensuring maximum process reliability.

Exceptionally versatile

Portable compressors can be precisely tailored to meet the needs of the specific task at hand. Moreover, the choice of a construction site chassis with a steerable axle and fold-up drawbar, or stationary installation using skids or machine feet, makes them perfectly suited to any location.

Durable and resilient

The MOBILAIR M 500-2 is perfectly equipped for demanding continuous duty, even under the harshest of conditions. The compressor performs reliably across a wide ambient temperature range of -10 °C to +45 °C.

Made in Germany

The various ranges of MOBILAIR portable compressor are all manufactured at KAESER's headquarters in Coburg, Northern Bavaria. Equipped with the very latest technology, the portable compressor plant boasts state-of-the-art equipment, including a TÜV-certified sound testing area for free-field sound level measurement, a facility for high-performance, high-quality powder coating, and efficient manufacturing logistics.

Efficiency that lasts

At the heart of every MOBILAIR system is the two-stage oil-free rotary screw airend. Thanks to an innovative special coating – heat-resistant to 300 °C – the shot-blasted, phosphated rotors operate without measurable abrasive wear even after years of service, maintaining peak efficiency for the long term.

Typical applications

- Industrial operations
- Oil and gas industry
- Back-up system
- Bridging system
- Drilling
- Power station applications



Maximum power. Oil-free. Flexible.





1 SIGMA CONTROL MOBIL 2

As the latest controller to feature touch display technology, the SIGMA CONTROL MOBIL 2 allows convenient operating pressure adjustment even when wearing work gloves. The easy-to-read display provides a clear overview of all operating data.

2 External fuelling

Switching from the internal tank to an external fuel supply enables the compressor to operate continuously from an auxiliary fuel source.

3 Control

Switchable control options – ranging from partial load to DUAL control – adapt flexibly to varying air demand. Crucially, an adjustable automatic start-stop function ensures energy-efficient operation and a longer service life.

4 Service-friendly

MOBILAIR compressors make maintenance particularly simple. All maintenance points are conveniently accessible via two large doors in the bodywork. Customised maintenance contracts ensure that this impressive powerhouse always remains ready for operation.

5 Compressed air aftercooler

The compressed air discharge temperature can be adjusted directly at the controller, between 10 and 50 K above ambient temperature, up to a maximum of 65 °C. A hot-air connection is also available for specialised applications.

6 Closed floor pan

The standard closed floor pan catches any liquids to safeguard against direct ground contamination. All drainage holes are sealed with screw plugs.

7 Safe and easy to transport

Regardless of the destination, safety is KAESER's key priority when it comes to transporting the M 500-2. These mobile all-rounders are therefore equipped as standard with a lifting eye and lashing points for secure transportation.

8 Suitable for refinery use

To ensure safe operation in refineries, portable compressors are equipped with a standard spark arrestor and an engine shut-off valve, which automatically shuts the machine down upon intake of combustible gases.

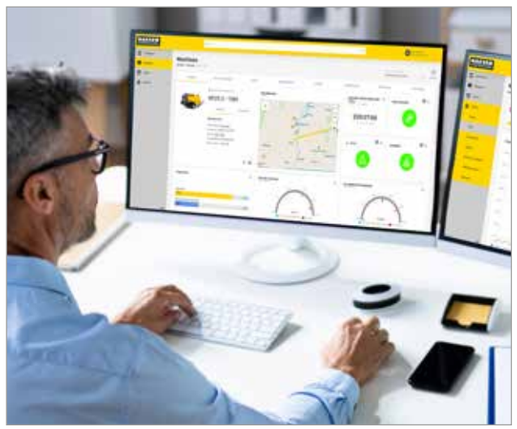
9 Parking brake

Easy access for actuation of the powerful parking brake and the fold-up drawbar ensure safe and space-saving installation or storage.

TELEMATICS @ MOBILAIR

TELEMATICS enables remote monitoring of the compressor's operating status. KAESER equips its portable compressors with a built-in modem connecting them to the Telematics portal.

The integrated compressor controller determines and processes all operating data, which it subsequently forwards to the Telematics portal. Central monitoring and processing of operating messages is performed in the dashboard. You can therefore view operating data, current messages, and system location online.



Compressed air treatment variants

System A - Cool - Condensate-free	Compressed air aftercooler → Centrifugal separator	Cool, condensate-free compressed air (100% saturated), **for compressed air tools and temporary replacement of stationary compressors**

KAESER KOMPRESSOREN – Sustainability guaranteed

If you would like to learn more about the new standards KAESER has set in reliability, efficiency and sustainability, please visit **www.kaeser.com/int-en/company/sustainability**/.

RETHINK RESEARCH REDUCE REPAIR

Technical data

Model (Emissions stage)	Compressor				Diesel engine (6-cylinder)			System			
	Flow rate		Working pressure		Make	Model	Nominal engine power	Fuel tank capacity	AdBlue capacity	Operating weight	Compressed air outlet
	m³/min	cfm	bar	PSI			kW	l	l	kg	
M 500-2 (V/T4)	45.8	1600	10.3	150	Caterpillar	C18	447.5	940	44.5	11900	1x G1 1x DN 80
M 500-2 (IIIA)	45.8	1600	10.3	150	Caterpillar	C18	429	1150	–	11900	1 x G1 1x DN 80

Dimensions

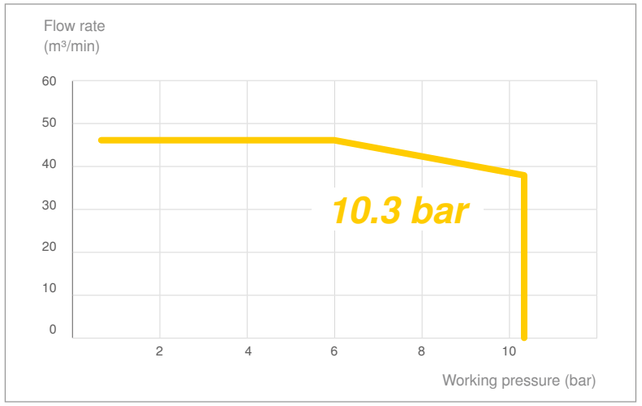


Mobile version



Stationary version

Note: Dimensions may vary depending on version.



pV Control

Maximum pressure (*p*) can be adjusted in steps of 0.1 bar. *pV* Control directly influences the maximum possible flow rate (*V*) and therefore offers even greater variability in terms of pressure and flow rate. This feature is particularly beneficial when working with long hose lines.

More compressed air for less energy

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.

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ISO 9001:2015
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ISO 45001:2018
ISO 50001:2018
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