

Portable Compressors **MOBILAIR M 220 / M 270**

With the world-renowned SIGMA PROFILE 

Free air delivery 15.0 – 27.0 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 220/M 270 – Innovative compressors for large construction projects

Innovative design

As well as reliability, durability and excellent overall efficiency, air users increasingly expect maximum flexibility from their portable compressors.

As a result of on-going assessment and product development, KAESER has developed the MOBILAIR M 220 and M 270. These compact portable compressors are designed to provide all the advantages of KAESER's high-efficiency SIGMA PROFILE airends combined with the power and economy of a turbo-diesel engine.

Outstanding performance

All MOBILAIR M 220 and M 270 models are designed for continuous operation at full load.

Maximum flexibility

Kaeser's versatile design allows variable pressure adjustment from 5 bar up to the unit's maximum working pressure.

Air treatment equipment can be integrated to provide cool, dry, technically oil-free air and even breathing quality air if required.

The M 220 and M 270 are available with various chassis types to suit specific applications.

Wide range of applications

The MOBILAIR M 220 and M 270 reliably deliver compressed air for concrete repair, tunnel construction, quarries and numerous other industrial applications in compliance with the strictest industry standards. The M 220 and M 270 provide a dependable source of quality compressed air even under tough ambient conditions of up to 50 °C, whilst the M 270 is also suited for use at altitudes as high as 4,000 m above sea level.



Exceptional reliability:
Separate air filters for engine and compressor, generously sized and long-lasting. Quick on-site filter change.



Easy refuelling: A readily accessible, lockable tank
Carries sufficient fuel for 15 hours operation.



Highly versatile:
Proportional control for infinitely adjustable pressure.



Lighting (optional):
Protected and securely fitted.



Increased safety:
Parking brake fitted as standard.



The perfect energy-saving combination: Mercedes-Benz or Deutz engines and KAESER rotary screw compressors

The powerful combination of an energy-saving Mercedes-Benz or Deutz engine and a highly efficient KAESER SIGMA PROFILE air-end provides outstanding performance with considerably reduced fuel consumption. The MOBILAIR M 220/M 270 can operate at full power for a whole shift without refuelling.

The water-cooled Mercedes-Benz/ Deutz engine complies with exhaust emission regulations and is certified to EU directive 97/68 (Class 3). Furthermore, users not only benefit from the quality of two world-class products, but can also rely on the comprehensive KAESER and Mercedes-Benz/ Deutz global service networks to ensure maximum machine availability.

KAESER's rotary screw compressor airends have an unrivalled track record in a wide variety of stationary industrial and mobile applications throughout the world. Providing more compressed air for less power consumption, each screw compressor airend is equipped with KAESER's renowned SIGMA Profile rotors which save up to 15% energy compared with conventional screw compressor profiles. A proportional controller adjusts the compressor inlet valve and the engine speed to precisely match air supply to demand, allowing further energy savings.



Reserve cooling:
An efficient and generously sized aluminium cooler - serving both the engine and compressor - with reserve capacity ensures perfect operation even in ambient conditions up to 50 °C. The cooler is simple to clean.

Easy maintenance:
Wide-opening doors provide easy access to all components and service points.



User-friendly operation:
Clear instrument layout, KAESER CONTROL system provides automatic monitoring and unit shutdown on alarms. Panel protected by lockable, transparent door.

Version 1: Two-axes, steerable



The two-axle chassis is fitted as standard with a parking-brake.

Version 2: Twin-axle



The twin-axle design makes the MOBILAIR M 220 and M 270 exceptionally manoeuvrable and consequently enables easy positioning, even in tight spaces. Fitted with park-

ing-brake as standard, also available with regulation-compliant lighting system and ABS compressed air braking as required.

Version 3: Stationary, with skids



The skid-mounting option enables the MOBILAIR M 220 and M 270 to be installed on-site without prior preparation of the ground underneath.

Version 4: Truck installation



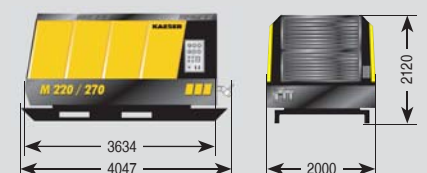
The units' fastening points enable quick and simple installation on a truck frame.



Technical specifications

		M 220				M 270				
		For non EU countries				For EU countries				
Version										
FAD	m³/min	21.3	19.4	17.5	15.0	27	25.5	22.6	20	17.8
At working pressure	bar	8.5	10	12	14	7	8	10	12	14
Pressure adjustment range	bar	5-8.5	5-10	5-12	5-14	5-7	5-8	5-10	5-12	5-14
Drive motor		Deutz				Mercedes-Benz				
Engine model (water-cooled)		BF6M 1013 FC				OM 501 LA				
Rated motor power	kW	173				260				
Speed at full load	rpm	1700				1620				
Idling speed	rpm	1400				1180				
Fuel tank capacity	l	560				560				
Compressor cooling fluid volume	l	83				83				
Weight, operational	kg	4670				4960				
Sound power level	dB(A)	–				≤100*				
Sound pressure level**	dB(A)	73				71				
Air outlet		1x G2½, 2x G1				1x G2½, 2x G1				
Optional air treatment system		Available				Available				

*) Guaranteed sound power level to directive 2000/14/EU – **) Surface sound pressure level to ISO 3744, (r = 10 m)



Air treatment systems

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

Additional air treatment systems for the MOBILAIR M 220 M 270 are available upon request. Please contact Kaeser for further details.