KAESER KOMPRESSOREN®

MOBILAIR M 50E SFC

Portable Compressor

With the world-renowned SIGMA PROFILE

Flow rate 3.7 to 4.7 m³/min (130 – 165 cfm)

www.kaeser.com

MOBILAIR M 50E SFC

The energy-saving all-rounder

Powerful, flexible and sustainable – the MOBILAIR M 50E SFC from KAESER combines maximum efficiency with environmentally friendly e-power. Its frequency converter technology flexibly adjusts maximum pressure between 6 and 11 bar, and reduces the starting current, ensuring energy-saving operation. Automatic variable speed control optimises energy consumption, whilst a weight of under 750 kg means it is easy to transport. These advantages make it ideal for industrial service applications and for operating air hammers, pneumatic spades, grinders, lances, and sewer robots at full power, yet emissions-free.

Exceptionally versatile

Portable compressors can be precisely tailored to meet the needs of the specific task at hand. Thanks to the wide range of optional compressed air treatment components, they always deliver the required compressed air quality. Moreover, the choice of various chassis configurations – with or without overrun brake – and the ability for stationary installation using skids or machine feet make them perfectly suited for any location.

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.

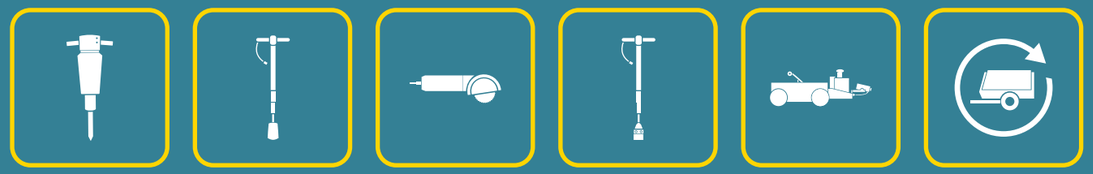
Durable and resilient

The MOBILAIR M 50E SFC is well equipped for demanding, long-term utilisation under the harshest of climatic conditions. The compressor is capable of operating in ambient temperatures ranging from -10 °C to +40 °C.

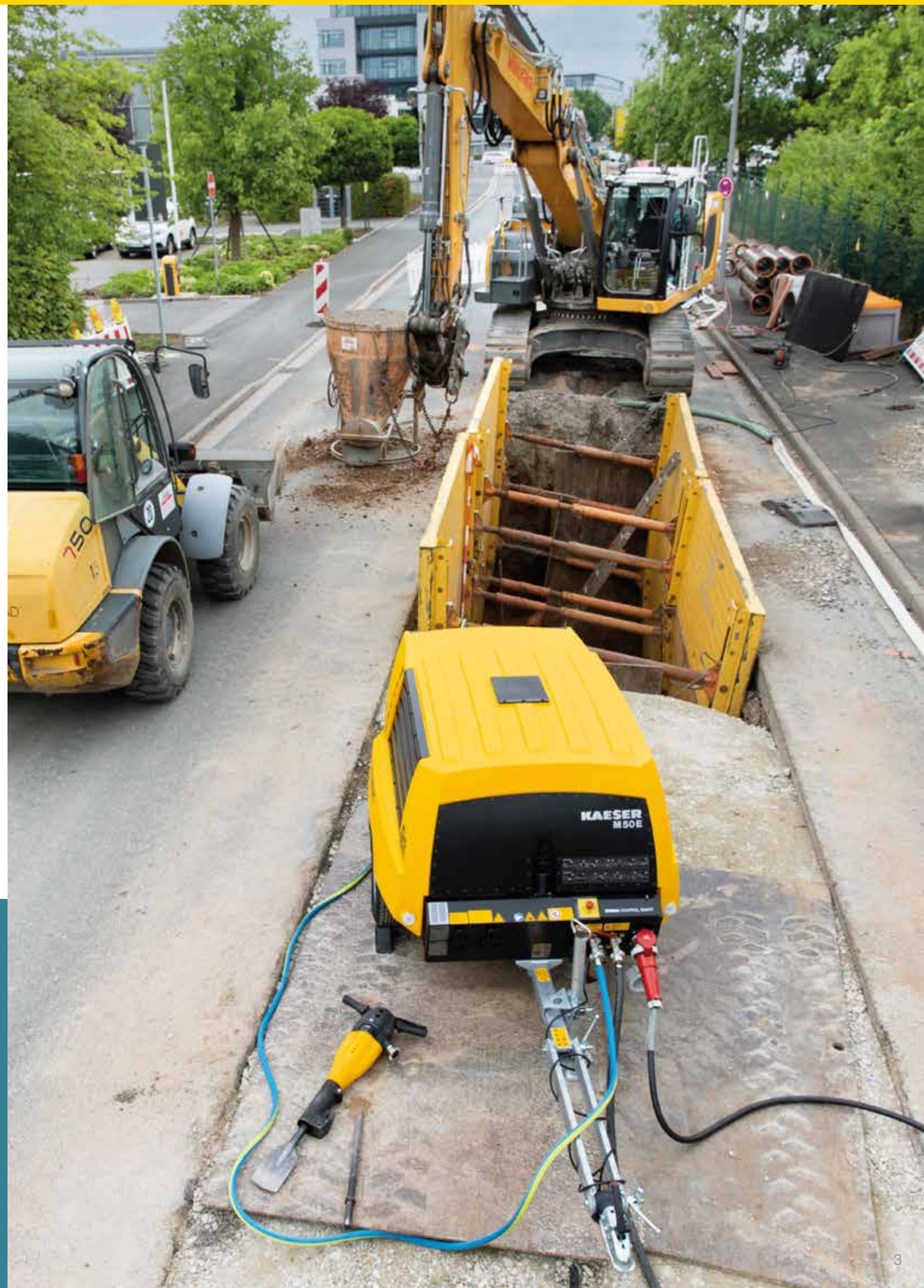
Airend with SIGMA PROFILE

At the heart of every MOBILAIR 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.

Typical applications



Air hammers | Pneumatic spades | Pneumatic grinders | Compressed air lances | Sewer robots | Bridging systems



Ultimate flexibility

4 Hose reel

The factory-installed hose reel holds 20 m of lightweight hose, which does not need to be fully reeled out. It protects the hose from damage and contamination, thereby prolonging its service life.

5 Service-friendly

MOBILAIR compressors make servicing simple. All maintenance points are conveniently accessible thanks to the wide opening angle of the enclosure. KAESER also provides tailored maintenance contracts to meet your specific needs.

6 Compressed air aftercooler

In the aftercooler, the compressed air is cooled to 7 °C above ambient temperature. Its angled installation ensures frost-proof drainage of condensate, which is then sustainably collected in a cannister.

1 SIGMA CONTROL SMART

The compressor controller is intuitively operated via six keys and a colour display. Functions include an operating mode display, simple user guidance, system monitoring, and diagnostics.

2 Automatic operation

If the system is equipped with the optional DUAL Control, the cut-in and cut-out pressure can be adjusted directly via the compressor controller. An additional quick-release coupling transmits the network pressure for regulation. The Automatic start/stop is integrated automatically and can be configured separately.

3 Metal or PE enclosure

Choose between a resilient PE enclosure or a robust metal enclosure. The PE version stands out for its exceptionally low weight, whilst the metal version impresses with outstanding durability. Both variants provide dependable protection from dust, dirt, and moisture.

7 Special PE colours

The corrosion- and scratch-proof, roto-moulded polyethylene enclosure is also available in the following special colours: red, green, blue, orange, white. Other enclosure colours are available upon request.

8 Variable speed control (SFC)

Pressure can be flexibly adjusted via the frequency converter, enabling adaptation to the requirements of different applications. Starting current is also reduced, which provides advantages in sensitive current networks, when operating on a generator, or for future-proof applications using external battery storage.

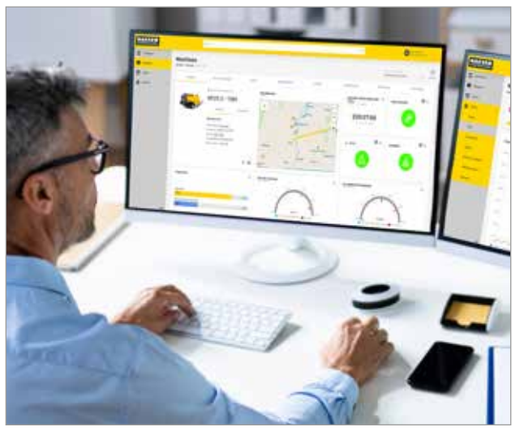
9 The emissions-free alternative

The MOBILAIR M 50E SFC with three-phase motor is designed for use in enclosed spaces and/or noise-sensitive areas. Its drive system is not only emissions-free, but also exceptionally quiet.

TELEMATICS @ MOBILAIR

TELEMATICS condition monitoring brings Industrie 4.0 to the construction site. 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 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 **https://www.kaeser.com/int-en/company/sustainability**.

RETHINK RESEARCH REDUCE REPAIR

Technical data

Model	Compressor				Electric motor (three-phase current)			System					
	Flow rate		Working pressure		Make	Model	Nominal motor power	Voltage	Fuse protection	Operating weight	Sound power level *)	Sound pressure level **)	Compressed air outlet
	m³/min	cfm	bar	PSI			kW	V	A	kg	dB(A)	dB(A)	
M50E SFC	4.7	165	11	160	Innomotics	1EA60	25	400	65	710	98	76	2 x G ¾ 1 x G 1

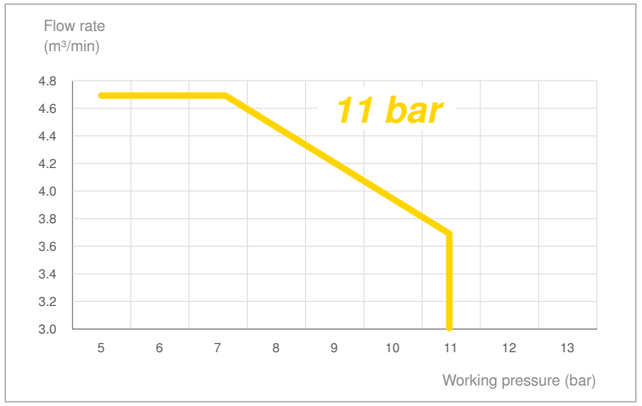
*) Guaranteed sound power level LWA as per Directive 2000/14/EC
**) Surface sound pressure level LpA as per ISO 3744 (r = 10 m)

Dimensions

Height-adjustable version

Stationary version

Note: Dimensions may vary depending on version.



pV Control

Maximum pressure (*p*) can be variably 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 longer 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.

TÜVRheinland CERTIFIED
Management System
ISO 9001:2015
ISO 14001:2015
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