KAESER COMPRESSORS®

MOBILAIR® M 250E / M 255E

Stationary portable compressor
With the world-renowned SIGMA PROFILE
Flow rate 25 m³/min

www.kaeser.com

MOBILAIR® M 250E / M 255E

Environmentally friendly, powerful and efficient – MOBILAIR e-power units from KAESER are designed specifically for outdoor operation. These mobile powerhouses are robust, low-maintenance and easy to transport wherever they are needed. Whether operating in constantly-changing locations or exposed to the elements, the M 250E and M 255E more than live up to the MOBILAIR name.

Compact and easy to transport

Their compact design allows these units to operate in locations where space is at a premium. Moreover, transportation by HGV is simple and convenient, since two units can be accommodated side-by-side on a single loading bed. Lifting eyes are fitted to ensure safe load-securing, whilst massive skids enable the units to be easily moved into position. The skids also protect the underside of the body from damage.

Exceptional versatility

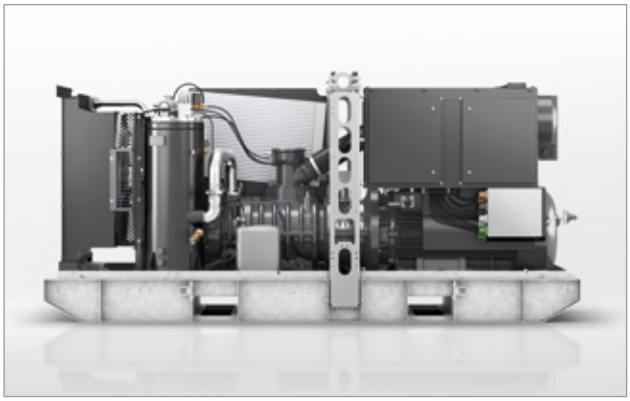
The MOBILAIR M 250E or M 255E can be used either as a temporary solution to expand the capacity of an existing compressed air station, or as a permanent outdoor installation for industrial applications. They are particularly well suited for use in locations where no compressor room is available, such as in mines, tunnels or shipyards.

Clean and environmentally-friendly

The electric drive motor is exhaust-free and therefore environmentally friendly. The standard-equipped, closed floor pan with cleaning apertures immediately catches any liquids to prevent potential contamination of the floor or ground.

Made in Germany

The various ranges of MOBILAIR portable compressors are all 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.



Tough performer

Thanks to robust technology and a star-delta starter, the standard unit is a tough performer, capable of operating in temperatures from -10 °C up to +45 °C (EU up to +40 °C). A special, low-temperature version featuring an internal heater can also be specified as an option, allowing operation at temperatures down to -25 °C.

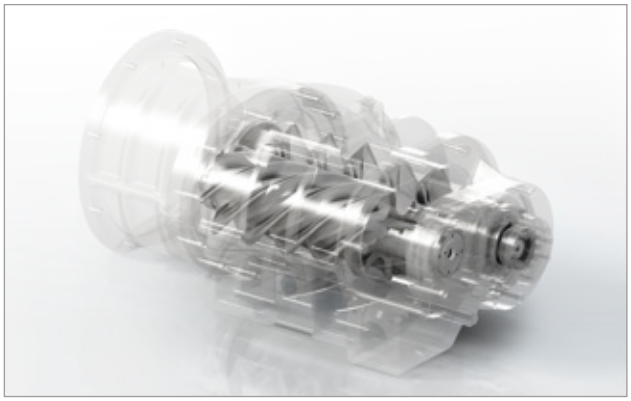
.

Ready-to-run

The MOBILAIR M 250E and M 255E are both delivered ready for connection and fitted with a circuit breaker switch. Furthermore, the user can choose between connection via a terminal box or quickly and easily using a POWERLOCK plug – the better solution for constantly changing set-up locations.

Tomorrow's technology, today: IE4 motors

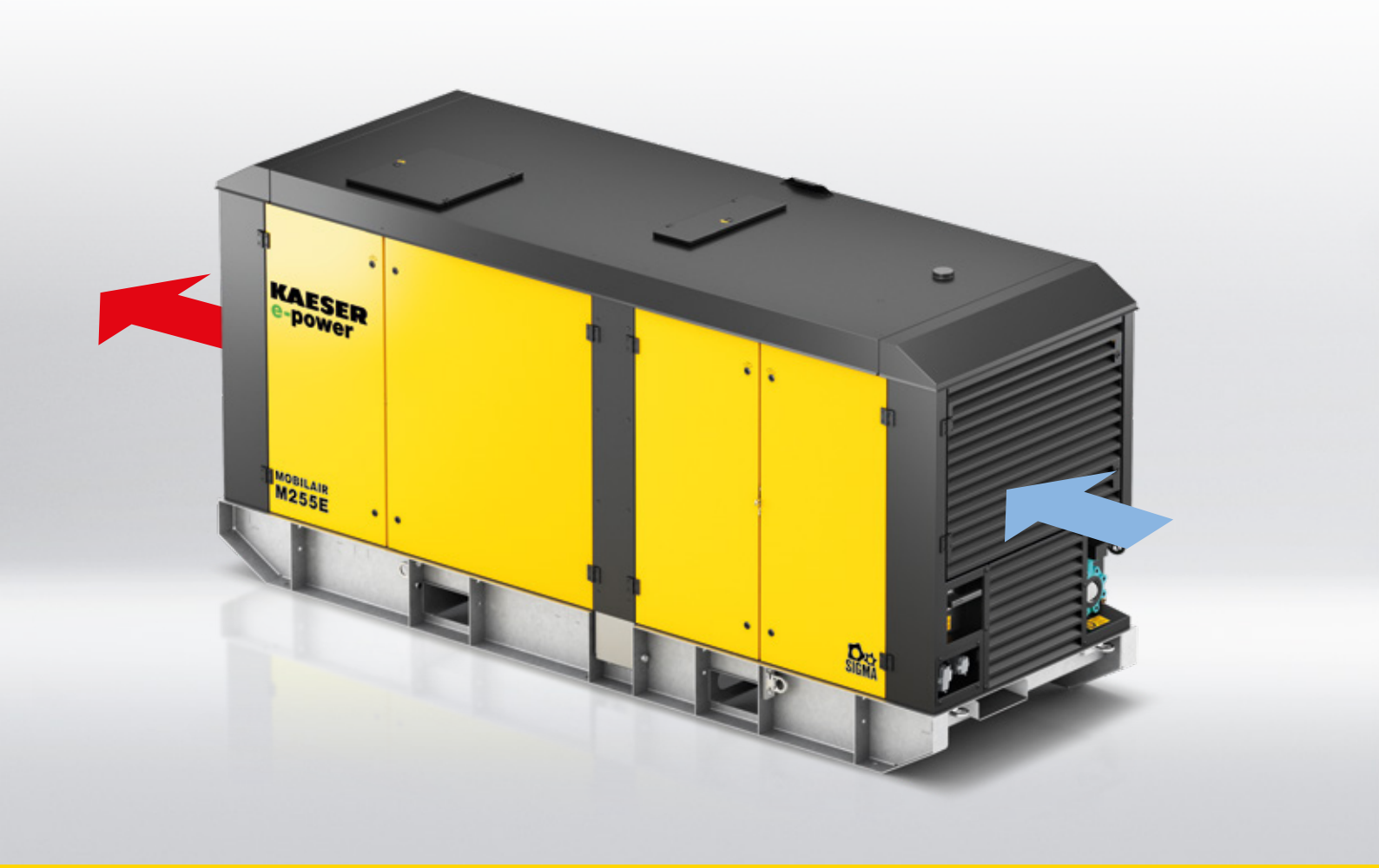
These compressors are equipped with Super Premium Efficiency IE4 motors as standard to deliver maximum performance and energy efficiency.

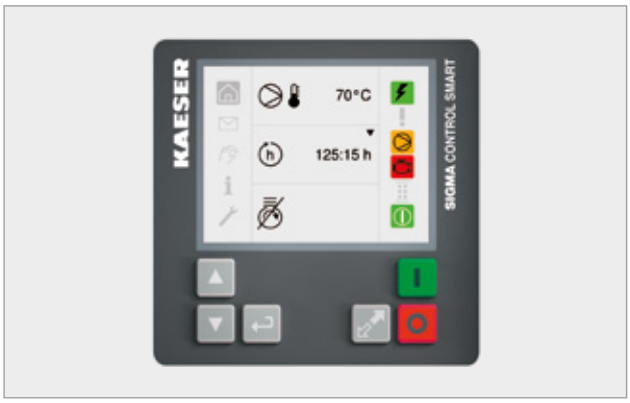


SIGMA PROFILE airend

At the heart of every MOBILAIR compressor 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. Furthermore, thanks to its 1:1 drive, the motor ensures low speeds of 1500 rpm at 50 Hz or 1800 rpm at 60 Hz, which saves energy and extends service life.

Intelligent equipment as standard





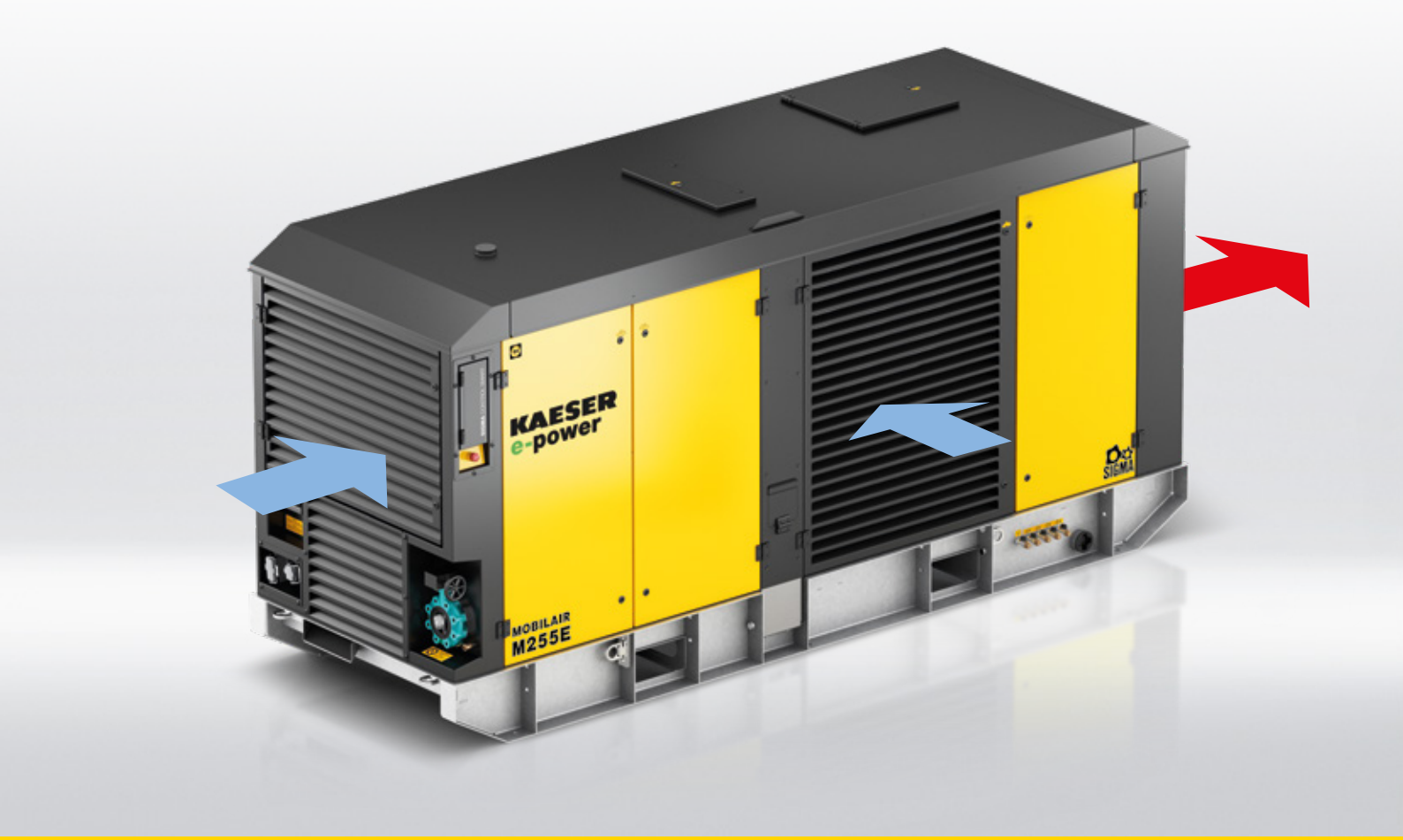
SIGMA CONTROL SMART

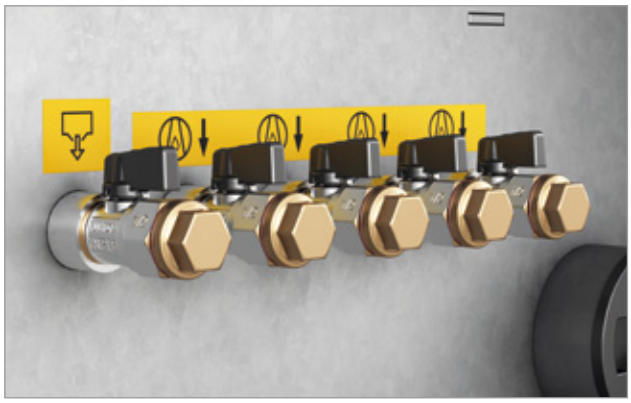
Just six buttons are required to operate e-power units, making them exceptionally easy and intuitive to use. Start/stop control and pressure adjustment are therefore straightforward. The colour display indicates any faults, shows operating status and even features a countdown to the next scheduled service. A durable, lockable metal flap protects the control panel from malicious damage or unauthorised access.

Safe & easy to transport

Regardless of the destination, safety is KAESER's key priority when it comes to transporting the M 250E and M 255E. These mobile all-rounders are therefore equipped with towing and fastening eyes for transport by HGV, a crane hoist, forklift pockets, non-slip step treads and a grab handle for reaching the covered crane eye.

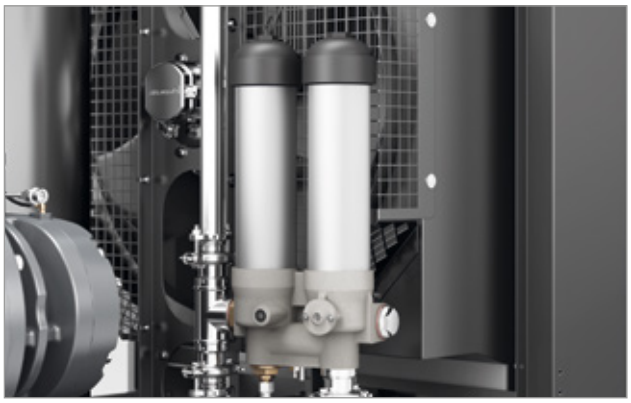
Cooling air inlet
Cooling air outlet





Quick and cost-effective maintenance

All maintenance parts are easily accessed via large doors. Service work is quick and cost-effective, thanks to features such as grease nipples for motor maintenance and externally-mounted drainage outlets for rapid compressor fluid changes.



Environmentally-friendly fluid filter

The eco-filter elements used in the aluminium fluid filter housings contain no metal components, meaning that they can simply be thermally disposed of at the end of their service life, without the need for further pretreatment.

Available equipment

Motor and pressure variants

Depending upon customer requirements, variants are available with working pressures ranging from 8.6 to 14 bar and a rated motor power of either 132 kW or 160 kW. Pressure can be easily reduced in 0.5 bar steps, down as far as 6 bar, via the SIGMA CONTROL SMART's arrow keys. The pressure adjustment control can also be disabled electronically to prevent unauthorised changes to settings.

Automatic operation

If the compressor is equipped with the optional DUAL control mode, the required cut-in and cut-out pressure can be configured easily using the SIGMA CONTROL SMART. Information regarding the prevailing air network pressure is sent to the machine via a quick coupling, where it is processed by the controller. The DUAL control mode option also features the automatic start-stop function, which can be configured individually.

Industrie 4.0 @ MOBILAIR

With the TELEMATICS 36 option, Industrie 4.0 comes to the construction site. Following approval of the data usage contract, KAESER equips every M 250E / M 255E ex works – at no extra cost – with a modem and connects it to the telematics portal.

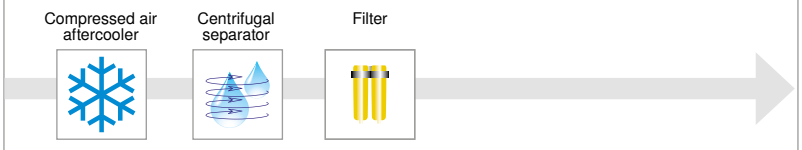
The best part: KAESER pays the portal fees for 36 months. You can therefore view operating data, current messages and system location online.

Through anonymous evaluation of the machine data by KAESER, you help to make system operation and usage even more efficient and reliable.

Many more available options

Special voltages, colours and equipment wishes upon request.

Compressed air treatment variants

Variant A (standard) - Cool - Condensate-free		Cool, condensate-free compressed air (100% saturated), **for compressed air tools and temporary replacement of existing stationary compressors** **Δt = 5 - 10K**
Variant F (optional) - Cool - Condensate-free - Filtered		Cool, condensate-free compressed air (100 % saturated), **free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)**

The right inclination

The standard-equipped compressed air aftercooler is installed at an angle so that condensate flows out automatically when the unit switches off, thereby avoiding any potential for frost damage.

Clean operation

The separated condensate can be collected in the standard-equipped cannister when operating for short periods. Alternatively, the unit can be connected to an AQUAMAT oil/water separator for longer periods of operation.

Technical specifications

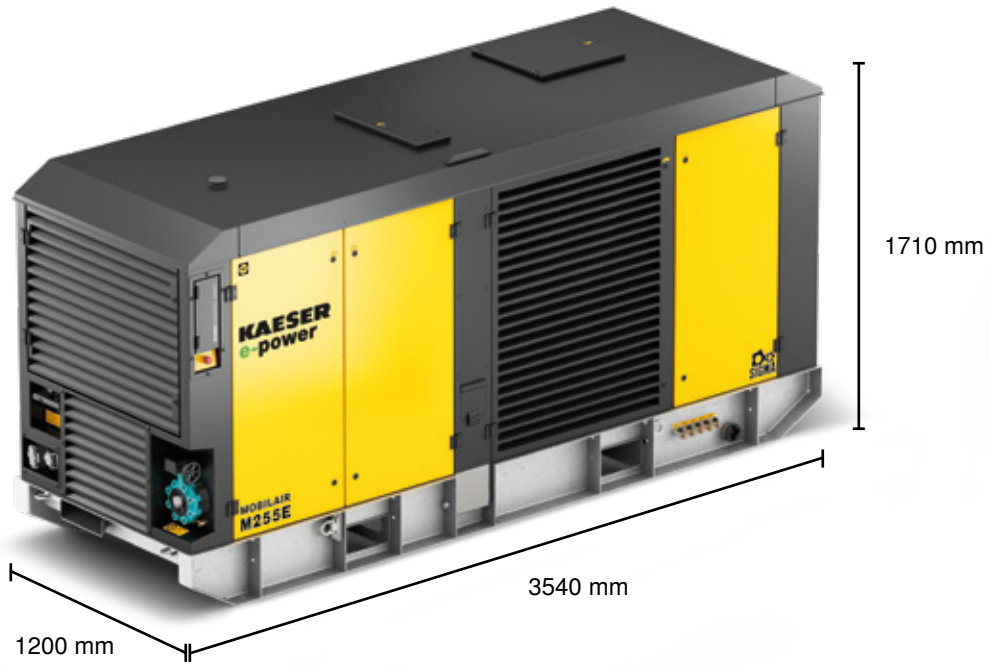
Voltage	Model	Compressor				Drive motor			Complete system	
		Flow rate		Working pressure		Make	Rated motor power	Efficiency class	Operating weight	Comp. air connection
		m³/min	cfm	bar	PSI		kW		kg[1)]	
50Hz 400V 3ph	**M 250E**	25	885	8.6	125	Siemens	132	IE4	3390	DN80
		20.4	720	10	145				3405	
		16.2	570	14	200				3125	
	M 255E	24.7	875	10	145	Siemens	160	IE4	3660	DN80
		19.9	705	12	175				3685	

For EU systems: Guaranteed sound power level LWA to directive 2000/14/EC ≤ 99 dB(A); 70 dB(A) Surface sound pressure level LpA to ISO 3744 (r=10m)

60Hz 380V-480V 3ph	**M 250E**	25.0	885	8.6	125	Siemens	132	IE4	3395	DN80
		20.0	705	12	175				3115	
		16.0	565	14	200				3125	
	M 255E	28.0	990	8.6	125	Siemens	160	IE4	3650	DN80
		24.6	870	10	145				3675	
		19.5	690	14	200				3395	

[1)] Weight specifications for basic system including compressed air aftercooler

Dimensions



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
TÜVRheinland CERTIFIED
www.tuv.com
ID 9108616471

KAESER COMPRESSORS Australia Pty. Ltd.
Locked Bag 1406 – Dandenong South – Vic. 3164
45 Zenith Road – Dandenong – Vic. 3175
Phone: +61 39791 5999 – Fax: +61 39791 5733
www.kaeser.com – E-mail: info.australia@kaeser.com

P-5E250AUS Specifications are subject to change without notice. 2/22