



MOBILAIR® M 250E / M 255E

Stationary portable compressor

With the world-renowned SIGMA PROFILE®

Flow rate 25 m³/min

MOBILAIR® M 250E / M 255E

Environmentally-friendly, powerful and efficient - MOBILAIR e-power units from KAESER are designed specifically for operation outdoors. These mobile powerhouses are robust, low-maintenance and easy to transport wherever they are needed. Whether operating at constantly-changing locations or exposed to the elements, when it comes to the M 250E and M 255E, MOBILAIR is a particularly well-deserved moniker.

Compact and easy to transport

Compact dimensions allow these units to operate in locations where space is at a premium. They also serve to ensure that transportation by HGV is simple and convenient, since two units can be accommodated side-by-side on one loading bed. Lifting eyes are fitted for the purposes of load-securing, whilst enormous 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 suited for use in locations where no compressor room is available, such as in mines, tunnels or shipyards.



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.

Clean and environmentally-friendly

The electric drive motor is emissions-free and therefore particularly environmentally-friendly. The sealed floor plan with cleaning apertures, fitted as standard, immediately catches any escaping liquids, so as to prevent contamination of the floor or ground.

Made in Germany

The entire MOBILAIR range of portable compressors is manufactured at KAESER's headquarters in Coburg, Northern Bavaria. This modern, state-of-the-art facility is equipped with a TÜV-certified sound testing area for free-field sound level measurement, a powerful powder-coating installation and highly efficient production logistics.



Plug and play

The MOBILAIR M250E and M255E are both delivered ready for connection and fitted with a load-breaker switch. Furthermore, the customer can choose either to connect via a terminal box, or quickly and easily with the POWER-LOCK plug - a better solution in the case of constantly changing set-up locations.



Tomorrow's technology, available today: IE4 motors

KAESER equips these compressors with Super Premium Efficiency IE4 motors as standard, thereby delivering maximum performance and energy efficiency.



SIGMA PROFILE air end

At the heart of every M250 unit lies a premium-quality air end featuring KAESER's energy-saving SIGMA PROFILE rotors. Optimised flow characteristics mean the air end delivers more compressed air for less energy. Furthermore, thanks to its 1:1 drive, the motor ensures low speeds of 1500 1/min at 50 Hz or 1800 1/min at 60 Hz, resulting in enhanced service life.

Intelligent equipment as standard



SIGMA CONTROL SMART

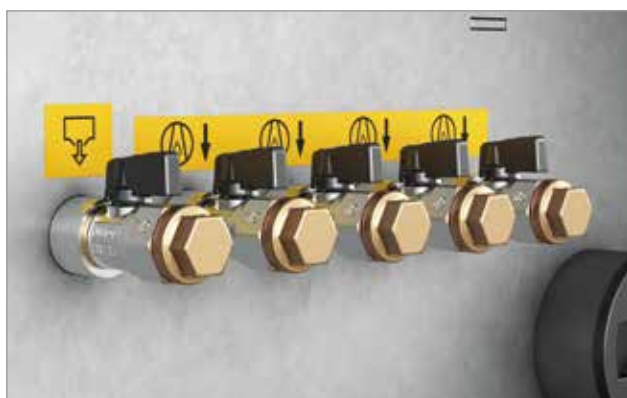
Just six buttons are required to operate e-power units, making them exceptionally easy and intuitive to use. Start/stop control and pressure adjustment could not be simpler. The colour display indicates any faults, shows operating status and even features a countdown to the next scheduled service. A 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 concern when it comes to transporting the M 250E and M255E. To this end, this mobile all-rounder is equipped with towing and fastening eyes for transport by HGV, a crane hoist, forklift pockets, non-slip treadplates and a grab handle for reaching the covered crane eye.

- Cooling air inlet
- Cooling air outlet



Simple maintenance

All maintenance parts are easily accessed via large doors. Service work is quick and simple, thanks to such features as grease nipples for motor maintenance and externally-mounted drainage outlets for quick 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 any need for further pre-treatment.

Available equipment

Motor and pressure variants

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

Automatic operation

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

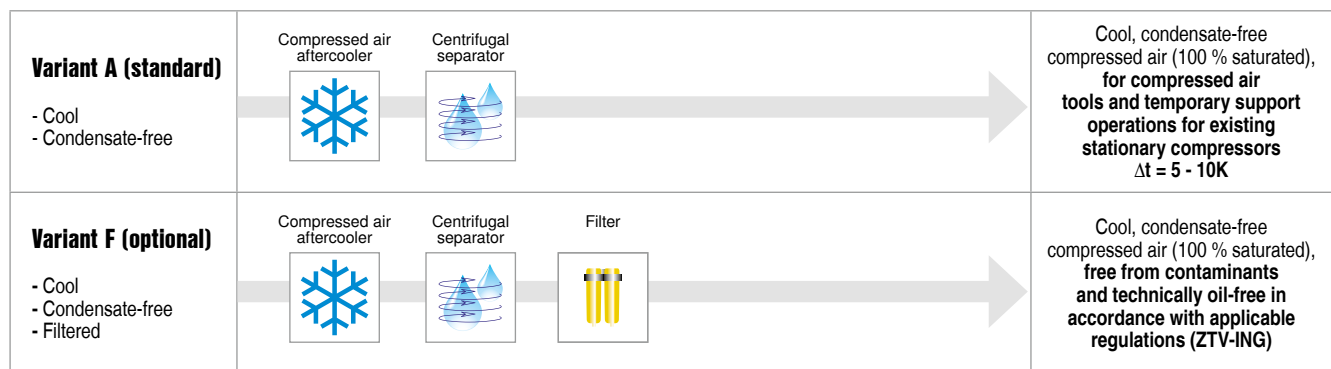
Industrie 4.0 @ MOBILAIR

MOBILAIR M 250E and M 255E units can be specified with a modem for connection to Industrie 4.0 systems. This can be directly connected either to the KAESER Plant Control Center or to an in-house control management system for the secure transfer of data regarding the machine's technical status. In addition to information on current operating hours and the exact location of the unit (including Geofencing), the system also provides valuable data such as duty cycle analysis, maintenance planning and remote diagnostics.

Many more options available

Special voltage requirements, bespoke colour matches and additional equipment options available upon request.

Compressed air treatment variants



The right inclination

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

Clean operation

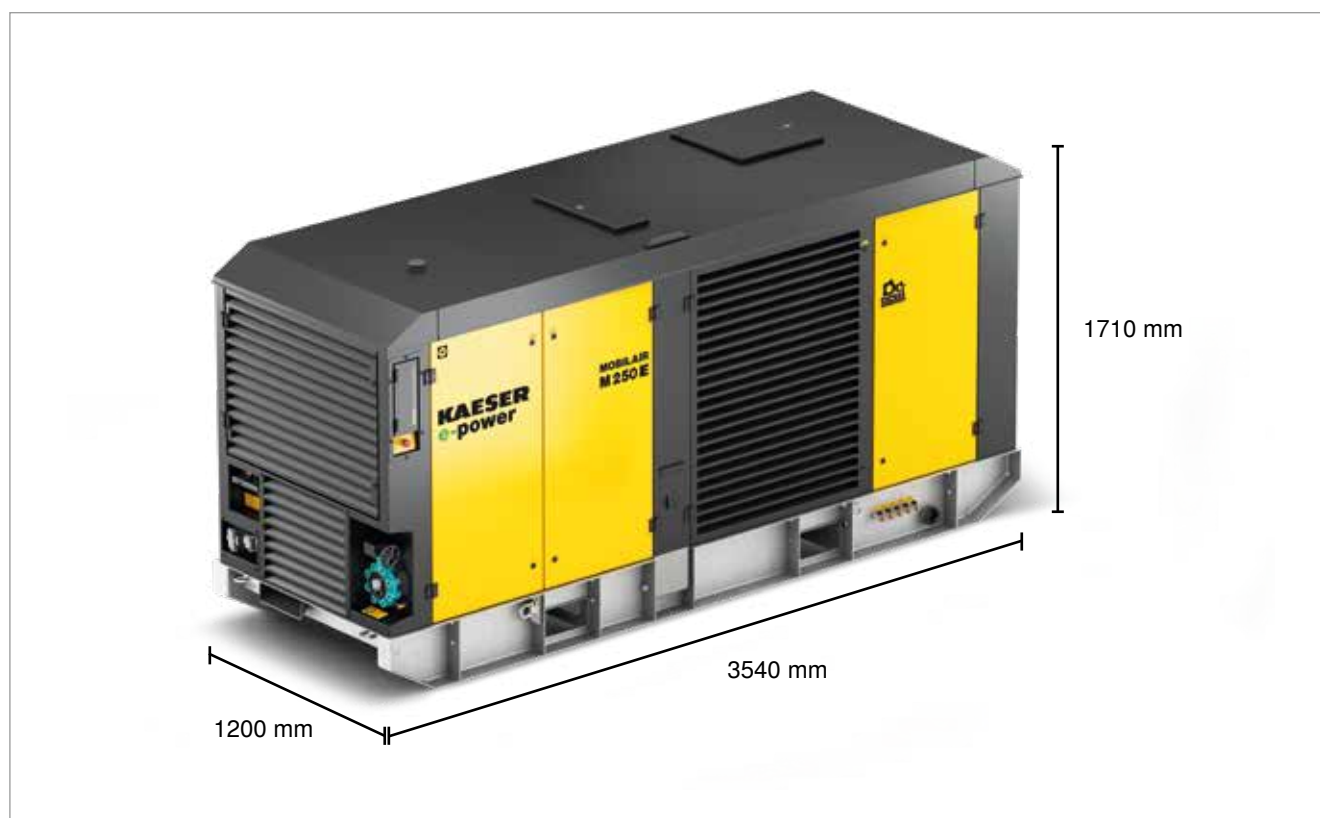
The separated condensate can be collected in the standard-equipped integrated cannister when operating for short periods, or the unit can be connected to an AQUAMAT oil/water separator for longer periods of operation.

Technical specifications

Model	Compressor				Drive motor (400V 3ph 50Hz)			Complete unit		
	Flow rate		Gauge working pressure		Brand	Rated motor power kW	Efficiency class	Operating weight kg	Sound pressure level ¹⁾ dB(A)	Compressed air connection
	m³/min	cfm	bar	PSI						
M 250E	25	885	8.6	125	Siemens	132	IE4	3380	70	DN80
	20.4	720	10	145				3405		
	16.2	570	14	200				3150		
M 255E	24.7	875	10	145	Siemens	160	IE4	3660	70	DN80
	19.9	705	12	175				3685		

¹⁾ Surface sound pressure level as per ISO 3744, (r = 10m) for EU variants

Dimensions



The world is our home

As one of the world's largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency.

Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times and provides maximum availability.



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