

The Mobilair 36-G and 45-G portable compressors from Kaeser

Portable Powerhouses for Compressed Air and Electricity Production

The need for electricity and compressed air often goes hand in hand, but electrical power connections are rarely available at the average construction site. Kaeser Kompressoren therefore provides the perfect solution with the powerful Mobilair 36 and 45 portable compressors, which feature an integrated generator. Both models combine outstanding performance and energy efficiency with user-friendliness and quiet operation.

The integrated electronically controlled 8.5 (Mobilair 45) or 13 kVA synchronous generator (Mobilair 36) allows simultaneous use of three-phase and AC electrical power, turning these versatile compressor units into compact construction site powerhouses. With free-air deliveries of 3.6 m³/min and 4.2 m³/min at 7 bar respectively, the Mobilair 36 and Mobilair 45 are able to supply compressed air within a matter of seconds and can also provide electrical power for construction lighting, welding equipment and electrical tools as required. The brushless generators are maintenance-free and, depending on energy requirement, can be switched between continuous operation mode and energy-saving automatic start mode. The Mobilair 45 is also available without a generator and as a 10 bar version with a free air delivery of 4.15 m³/min.

At the heart of each unit is a durable rotary screw airend featuring the renowned 'Sigma Profile', which uses 15% less energy compared to conventional airend rotor designs. Furthermore, Kaeser's highly efficient 1:1 drive design eliminates the transmission losses associated with gear or V-belt driven systems, as the energy-efficient, water-cooled, Kubota diesel engine directly drives the airend. In addition, a continuous air delivery control system precisely matches compressor performance to suit actual compressed air demand, which further reduces fuel consumption of these already highly efficient compressor units. All models meet the very latest sound emission regulations in accordance with European guideline 2000/14/EG, as super-soundproofing insulation is fitted as standard. Other features include an automatic monitoring system and maintenance-free piping.

Perhaps most importantly though, the M 36 and M 45 are in a class of their own when it comes to versatility, as they can be specifically tailored to meet the needs of the relevant application. As well as the synchronous generator, they are also available with a choice of a fully galvanised chassis with overrun brake and a fixed or height adjustable tow bar, or as stationary versions either mounted on skids or machine mountings. Standard models can operate in ambient temperatures ranging from -10 °C to +50 °C, whilst low temperature versions are designed for temperatures down to -25 °C. The compressed air is cooled to a discharge temperature of 7°C above ambient temperature. Accumulated condensate is able to drain away easily, as the compressed air cooler is installed at an angle and the hot exhaust gasses from the motor are also used to aid condensate evaporation. This design consequently ensures reliable frost prevention during the winter months. Optional additional equipment includes air treatment systems to provide cool, dry, technically oil-free air of various classes to meet the special demands of e.g. concrete repair as per German ZTV-SIB regulations, or fresh air.

Users will also appreciate Kaeser's patented Anti-Frost Control, which is fitted as standard to models without compressed air treatment and to those equipped with air heat-feedback. This system is particularly useful at times of the year when ambient



temperatures are lower, as it protects air tools against freezing and corrosion.

The galvanised compressor bodywork is powder coated to ensure protection from the elements and provides long-term value retention, whilst excellent component access greatly simplifies servicing and maintenance tasks. Built to Kaeser's renowned high quality standards, the Mobilair 36 and 45 are designed to provide many years of dependable service.

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Simple to operate and highly efficient, the powerful Mobilair 45 portable compressor with integrated generator provides both compressed air and electricity for the construction site.