

PRESS RELEASE **light+building 2024**

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Highly efficient and connected - latest Grundfos motor solutions

As one of the world's leading manufacturers of electric motors, Grundfos also develops and manufactures drives for pump solutions. At its heart is the wide-ranging MGE series. The electronically controlled high-efficiency norm motors with built-in frequency drive are suitable for a wide range of applications in HVAC or other building technology systems and offer a variety of communication and control options. Thanks to their permanent magnet synchronous motor design, they are enormously efficient compared to conventional asynchronous motors, even in partial load. The MGE models achieve IE5 efficiency in accordance with IEC 60034-30-2 and are around 30% more efficient than IE3 motors. They are available both as standalone motors and in preconfigured e-pump systems. Thanks to the modular design of different motor types, function modules and control panels as well as a large number of communication options either integrated or provided via slots, the series can be adapted to a wide range of specific requirements.

New since 2023 is the MGE model K, which Grundfos will also be presenting at light+building. The large MGE motor, which has been further developed in terms of power and control, opens up a power range of 11 to 26 kW, for the first time as a permanent magnet motor with integrated frequency converter and energy efficiency class IE5. The newly developed dedicated function modules FM110 and FM310 for the K model offer, in addition to a new Safe Torque Off function, maximum connectivity with Modbus RTU, Bluetooth LE and (for FM310) Ethernet interfaces already integrated on board.

The Windows-based software GO Link was also introduced last year. Grundfos has long offered the intuitive Grundfos GO smartphone app for commissioning and monitoring almost all Grundfos e-pump systems. With GO Link, this option is now also available for PCs. On different user levels, the software offers convenient access to settings, standard and user-specific configurations, alarms, status messages, firmware updates and developer functions. The connection between PC and MGE

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motor is established via USB interface and a separate wireless module or PC Link Tool.

With four highly efficient and highly configurable models, the MGE series covers a power range from 0.25 to 26 kW. The motors can be combined with TPE series inline pumps, NKE and NBE series standard and close-coupled pumps, CRE series multi-stage pumps and other pump systems. For applications where highest motor outputs above 26 kW are required, Grundfos offers permanent magnet synchronous motors up to 55 kW, which are available with external frequency inverters as pre-configured units.

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