

GEA Omni NG Enables Smarter Digital Control and Remote Monitoring

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GEA Omni set a benchmark in machine control with the industry's first high-definition, multi-touch screen



GEA has introduced the next-generation control panel, GEA Omni NG, delivering enhanced cybersecurity, scalability and digital connectivity for heating and refrigeration system operators. Designed for modern industrial environments, the control panel enables smarter, more secure and more efficient equipment control.

Since its introduction in 2014, more than tens of thousands of GEA Omni control panels have been sold worldwide, making it a trusted solution for operators. Known for its intuitive design and reliability, the GEA Omni set a benchmark in machine control with the industry's first high-definition, multi-touch screen. The GEA Omni NG retains the flexibility, ease of use and cutting-edge capabilities that made the GEA Omni the control panel of choice.

The GEA Omni NG builds on this legacy with software and hardware upgrades that give operators better access to real-time data, helping them easily manage, maximize, and track system performance. For example, the IPC has been replaced with a Wi-Fi-enabled GEA G-Plex electronic module and a separate touchscreen monitor, allowing greater flexibility. Operators, contractors and plant managers can now connect with their own devices, such as tablets and mobile phones. This facilitates remote monitoring, faster troubleshooting and easier access to historical data. In addition, the operating system has changed from Windows to Linux, providing a faster, more secure and customizable system. To facilitate seamless upgrades, the GEA Omni NG is backward compatible with the GEA Omni.

As factories become increasingly automated, cybersecurity threats are on the rise. Control systems, such as those utilized by industrial heating and refrigeration equipment, are vulnerable to these threats. The GEA Omni NG provides a secure digital control system that strengthens overall plant security. The control panel is on track for compliance with EU Machinery Regulation 2023/1230, Cyber Resilience Act, Network and Information Systems (NIS 2) Directive, and NIST Cybersecurity Framework (CSF) 2.0. Compliance with these frameworks helps prevent unauthorized access to programmable logic controllers and protects critical plant operations.

By digitally connecting equipment, the GEA Omni NG empowers operators to run their systems more reliably, efficiently and sustainably. The control panel is GEA Cloud-ready, which opens the door to digital solutions that monitor equipment to deliver energy efficiency and sustainability benefits. By turning real-time data into meaningful insights, GEA digital solutions provide greater visibility and control over system performance, energy use, and maintenance needs. This helps operators reduce costs and improve uptime.