

New Oil-Free Scroll Air Compressor “G Series” Launched

Enhanced high-temperature resistance, reduced installation space, and improved energy efficiency contribute to stable operation in production environments



New Oil-Free Scroll Air Compressor “G Series” (3.7kW)

Tokyo, Oct 20, 2025 Hitachi Industrial Equipment Systems Co., Ltd. (HIES) will begin selling its new oil-free scroll air compressor “G Series” (oil-free 1.5kW/2.2kW/3.7kW models) capable of operation even in high ambient temperature environments (45°C). By improving both the core components and the overall package of the oil-free scroll air compressor, we will meet a wider range of customer needs, further enhancing efficiency in industry, and reducing environmental impact.

HIES is advancing its strategy of “Integrated Industry Automation” by expanding its lineup of digitally-connected equipment (digitalized assets). This includes launching the new oil-free “G Series” air compressor and offering “HMAX for Industry,” a digital service that embodies Lumada 3.0 by using AI, domain knowledge and data from this equipment to help customers in key growth industries operate more efficiently.

Overview of the New Oil-Free Scroll Air Compressor “G Series”

Air compressors are widely used in factories as a critical source of compressed air for manufacturing equipment and other applications. They supply compressed air stably and efficiently in diverse installation environments. In recent years, there is a growing need for flexible adaptation to line expansions and modifications, as well as for streamlining maintenance and management through IoT-enabled operational visibility, ultimately leading to improved productivity.

While scroll compressors are generally known for their quiet operation and low vibration, the “G Series” features significantly enhanced heat resistance. Combined with HIES’ unique packaging technology, this also improves the intake and exhaust structure, enabling operation in high-temperature environments up to 45°C ambient temperature. The new Heat Safety Mode

automatically reduces the set pressure even at ambient temperatures of 50°C, enabling continued operation^{*1}.

The product is compact and can be installed without clearance from walls, significantly reducing installation space (for the 3.7kW model, installation area is reduced by 23% compared to previous HIES models). It supports FitLive^{*2}, a Lumada^{*3} solution, via Bluetooth^{®*4} communication. It also comes standard with an external Modbus^{®*5} communication terminal block, enabling operation management and condition monitoring of the product within the customer's facility.

^{*1} Maintenance cycles shorten during operation at temperatures of 40°C or higher.

^{*2} Equipment monitoring service provided by Hitachi Industrial Equipment Systems.

^{*3} A collective term for Hitachi's advanced digital technology solutions, systems, and technologies that create value from customer data and accelerate digital innovation.

^{*4} The Bluetooth word mark and logo are registered trademarks owned by Bluetooth SIG, Inc., and HIES uses these marks under license. Other trademarks and trade names are the property of their respective owners.

^{*5} A communication protocol widely used for data transmission in industrial equipment. Modbus is a registered trademark of Schneider Electric USA Inc.

About HIES

Hitachi Industrial Equipment Systems enhances productivity across various industries — including data centers, batteries, electronics and semiconductors and pharmaceuticals — through high-efficiency products such as compressed air systems, grid edge solutions, drives and coding and marking equipment. Our innovative solutions and services integrate digital technology to drive customer success and contribute to a more sustainable society. We support customers throughout the entire product lifecycle, from maintenance to recycling. For more information on Hitachi Industrial Equipment Systems, please visit our website at <https://www.hitachi-ies.com/>

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