

## **Press release**

### **Sustainability in action: Frascold unveils the CO<sub>2</sub>-based TK HD series**

*Frascold readies to launch the brand-new range of transcritical CO<sub>2</sub> compressors, designed to deliver high performance, 24/7*

In a scenario where environmental protection is increasingly an absolute priority, a leading player in developing, building and marketing semi-hermetic compressors for the refrigeration and air conditioning industry, Frascold stands out for the development of innovative solutions striving for continuous improvement and meeting all the needs of the industry. A tangible commitment concretely pursued by unveiling the brand-new CO<sub>2</sub> natural refrigerant-based TK HD series, a new heavy-duty sustainability frontier. The result of the company's major investments in research and development, this solution offers high performance, variable and persistent workloads as well as long service life. Its superior energy efficiency, reliability and excellent performance make it the right choice for a wide range of applications including refrigeration, air conditioning, as well as high-temperature heat pumps up to 100°C.

#### **FRASCOLD DELVES INTO EXPLORING INNOVATION IN EACH COMPONENT**

Frascold delves into exploring innovation in each component, striving towards achieving maximum strength to ensure that its compressors can operate under harsh environmental conditions, that is constant round-the-clock workloads, at high temperatures and high delta P, while fully safeguarding the environment.

For us - as a company - R&D is a constantly developing field. As a matter of fact, we - at Frascold - have always focused on using cutting edge and top quality materials, with the aim of building long service life compressors in terms of resistance to corrosion, heat dissipation and optimised lubrication. In this sense, by providing the new CO<sub>2</sub>-based TK HD series with anti-friction treatments and new surface finish, we - at Frascold - are able to reduce wear and extend the service life of compressors for superior performance constant over time. Reliability, resistance and duration also confirmed by the field test, ongoing externally for a year now. Furthermore, the option of fitting an inverter confers greater flexibility to the compressors, hence making them ideal to meet all the needs of the HVAC&R industry.

#### **ECO-SUSTAINABILITY IN ACTION: WITH FRASCOLD, SILENCE IS THE NEW BENCHMARK**

The result of an in-depth research, besides excelling for its top-level performance, the TK HD series also stands out for its unique silence. The optimisation of the internal components and the painstaking mechanical balancing has contributed to significantly reduce the noise level, with a sound pressure range at a distance of 1 metre comprised between 64.5 and 76 dB(A), equivalent to the volume of a conversation for smaller models, or to the road traffic for size Z<sup>1</sup>. Apart from improving the user experience, this trait is there to prove Frascold's commitment to providing low environmental and sound impact solutions.

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<sup>1</sup>Valle d'Aosta Regional Environmental Protection Agency:

<https://www.arpa.vda.it/it/agenti-fisici/rumore-ambientale/nozioni-general/decibel-e-leq>

**Frascold spa**

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With two motor versions, the range comes with 4 sizes for a total of 34 models, with a range between 3 and 50 HP and volumetric displacements comprised between 1.9 and 37.9 m<sup>3</sup>/h at 50 Hz. Other than having been conceived to bear pressure up to 100 bars, it also offers utmost flexibility and compatibility with the existing systems, enabling to provide retrofit solutions.

## CO<sub>2</sub>: THE FUTURE OF SUSTAINABILITY

CO<sub>2</sub> offers countless benefits compared to conventional synthetic refrigerants: low global warming potential refrigerant fluid, it is readily available and non-inflammable, to the benefit of higher operating limits compared to propane gas. Furthermore, the use of CO<sub>2</sub> contributes to enhancing plant efficiency: a significant opportunity to reduce environmental impact and promote a responsible management of energy resources, to foster a sustainable future.

Frascold's TK HD series is ideal for intensive and continuous round-the-clock workloads, like those required in industrial and trade industries.

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### **Frascold SpA – [www.frascold.it](http://www.frascold.it)**

*Frascold is a leading player in the development, production and marketing of semi-hermetic piston and screw compressors for the refrigeration, air conditioning and air heating industry. A constantly evolving company that has always had a close relationship with nature and sustainability. A common thread that guides the Company every day, starting from its internal production processes, with the introduction of constant technological improvements and which continues with the development and production of efficient solutions with a low environmental impact. With headquarters in the province of Milan, Frascold S.p.a. recorded a consolidated turnover of over 92 million Euro in 2022. The Company boasts a well-balanced competitive position, thanks to its full control of the value chain and a cautious internationalisation strategy, which takes the form of significant investments in direct presences in China, the USA and India, and agreements with Distributors all over the world.*

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