

Product profile



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BITZER ORBIT PRO: propane scroll compressors with expanded application limits for heat pump and air conditioning applications

With the ORBIT PRO series, BITZER is expanding its ORBIT scroll compressor portfolio to include a special design for propane (R290). Choosing a natural refrigerant like propane provides contractors and end users with many benefits, particularly as legal requirements concerning environmental compatibility and energy efficiency grow more stringent in Europe. Thanks to expanded application limits and a wide variety of models, the ORBIT PRO series is the right choice for a variety of applications.

The ORBIT PRO series offers an extensive range of applications, from heat pumps and air conditioning to process and IT cooling. Scroll compressors enable operation with evaporation temperatures between -30°C and $+30^{\circ}\text{C}$ and condensing temperatures between $+10^{\circ}\text{C}$ and $+80^{\circ}\text{C}$. With cooling capacities between 16 and 64 kW* and heating capacities between 21 and 82 kW* (*operating conditions: $t_0 = +5^{\circ}\text{C}$, $t_c = +50^{\circ}\text{C}$ at 50 Hz), the scroll compressors offer high performance and efficiency. The series comprises two housing sizes with a total of nine types, which cover displacements between 19.8 and 77.2 m³/h at 50 Hz. Thanks to BITZER Advanced Header Technology (BAHT), a special piping technology, the compressors can easily be combined in tandem- or trio-configurations for increased capacities and reliable oil management. Like the other scroll compressors in the BITZER ORBIT portfolio, the propane design also boasts low sound emissions and a reduced oil carry over rate in operation.

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As an independent specialist for refrigeration, air conditioning and heat pump technology, BITZER is present all over the world: with products and services for refrigeration, air conditioning and process cooling as well as transport, BITZER ensures optimum temperature conditions for trade in goods, industry processes and indoor climate control – always striving for the highest possible energy efficiency and quality. BITZER is represented all over the world with 75 sites in 40 countries, including its sales companies and production facilities. Trade and service partners included, the BITZER network of manufacturing, development and sales extends to almost all countries in the world. In 2023, more than 4,300 employees generated a turnover of €1.01 billion; expenditure for research and development totalled €61 million.

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Image: The BITZER ORBIT PRO scroll compressor series is optimised for the natural refrigerant propane (R290)