



Tailor-made solutions

180 air compressors for snow nozzle

Mattei delivered 180 Unica tailor-made air compressors, mounted on the snow nozzles produced by the Swiss Bächler company, and present in different ski areas in Switzerland, Austria, Russia, China and the Czech Republic. Bächler Top Track delivers worldwide tailor-made solutions for snow treatment and artificial snowmaking. In order to reinforce its brand image, the company tries to achieve improvements in customer satisfaction and gives utmost importance to the performances and energy efficient features of its products. The reasons which led Bächler to choose Mattei lie in the reliability and excellent performances, even at extremely low temperatures, of its air compressors, produced with proprietary technology, rotary vanes. As a matter of fact, the simplicity of the device, where the stator is never in direct contact with either the rotor or the vanes, ensures continuous performances over time. Mattei compressors have no gears between the crankshaft and the rotor, and no thrust blocks which are replaced by sleeve bearings. Such structure reduces the number of components and, consequently, the maintenance operations and costs. The Unica series has proved to be the ideal solution thanks to its small size, which is due to the presence of one extended crankshaft, directly connecting the electric motor and the compressor, without additional coupling elements. This structure also gives greater stability to the machine and allows a significant reduction in vibration and noise. Mattei engineers have purposely conceived for Bächler a customized version of the Unica series, in order to better fit the compressor functioning to its particular "snow" application, where the quality of compressed air – with no oil or compensate – is a fundamental element, and the risk of ice formation is high. A specific control board for compressors has also been included, and a lubricant suitable for low temperature (from -30°) has been chosen. This choice stems from the need to protect the snowmaking devices which are often activated at night, even at a temperature of -20° . The Unica series models which have been mounted on Bächler devices are characterized by power ranging from 1.5 to 3 kW, capacity of 160 and 320 l/min, with 10 bar operating pressure. The company asked for compact and silent compressors capable of delivering compressed air according to the quantity actually needed and with no waste. Moreover, the automatic "start-stop" mode, the use of a pressure controller, and the special design make Unica series the perfect solution for all the applications with prolonged air demand. Finally, Mattei compressors also foster a more rational use of energy resources thanks to the low rotation speed and to the vane technology.