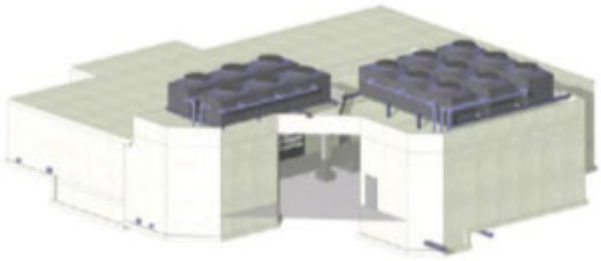
MITA cooling technologies

Since 1960 market leader in civil and industrial cooling

Thanks to the collaboration with important artificial snow making companies, **MITA supplies Cooling Towers for installations in Austria and throughout Europe**. In addition to an appropriate thermodynamic sizing, the manufacturer designs the open circuit cooling towers with special technical features for this specific application therefore considering the severe working conditions during winter, on high mountains, at low ambient temperatures.

In partnership with the design and engineering company **Klenkhart & Partner Consulting ZT GmbH** responsible for the general project and **Hydrosnow GmbH for hydraulic systems, MITA contributed to the realization of two major projects**:

Filzalmsee, Brixen im Thale Austria, **ski area** of Brixen im Thale and Söll: construction of a plant **with 5 units PME 10004 E CW SNOW cooling towers** with concrete basin for a total cooling capacity of 8640 kW and flow rates of 225 l/s for Brixen im Thale and 150 l/s for Hochsöll station;



Höfen, **ski area** Höfen-Hahnenkamm Austria: new system with a **PME 10004 E CW SNOW cooling tower**, cooling capacity 2072 kW and flow rate of 90 l / s, to considerably increase the efficiency of the existing artificial snow making plant.

It is interesting to see the growing tendency to reduce the environmental impact of the installation on the surroundings. Very often the request if focused on the reduction of sound emissions when the towers are in function. Not only in case the plant is located near a residential area, but also to protect the natural habitat of many animal species. Environmental impact reduction means also the study of the best setting into a natural location (woods, mountains) in which a careless installation of industrial equipment would decrease the value of the entire area.

For example:
- **Hopfgarten – Austria**: No. 4 units PME 10004 E CW SNOW each with no. 3 fans and a total cooling capacity of 8.800 kW, see the dark-green units in the picture.

- **Reiteralm – Austria**: No. 4 units PME 10004 E CW SNOW with a total cooling capacity of 3.450 kW. It is very interesting to see the wooden structure that surrounds the cooling towers: it is useful not only to further reduce the sound emissions but also to improve the visual impact of installation in the natural environment.

When the project requires a low amount of civil works **MITA** can supply a complete cooling tower including FRP basin and HDGS air inlet frame with louvers. This can be installed on a simple concrete floor.

Sweden: No.3 units PME 2853 E CW SNOW, total cooling capacity 1.395 kW, towers complete with lower structure, louvers and basin.

MITA develops projects together with partners such as engineering companies, contractors or hydraulic installers, or end users. In all cases, MITA gives the customer a full support to identify the real necessity and the design margins of the project to find out the most suitable and correct tower type and the best installation possibility.

MITA was the first company in **Italy** to produce, in the '80s, a version of towers specially designed for artificial snow making plants, equipped with appropriate technical and aesthetical features, to reduce drastically frequent and costly maintenance operations, repairs or towers' early substitutions due to corrosion problems (caused by the choice of poor materials, less suitable to be in constant contact with water).

In occasion of Turin 2006 Winter Olympics, MITA evaporative towers were used for the creation of the new artificial snow-making plant in Bardonecchia (Italy) realized by Snowstar, for the slopes that hosted the snowboard races. Snowstar became part of Sufag and today it belongs to MND Group.

It is a pleasure to see these beautiful environmental friendly installations for ski lovers but not only!

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