

WINTER ALL YEAR LONG

# SNOW FACTORY

english



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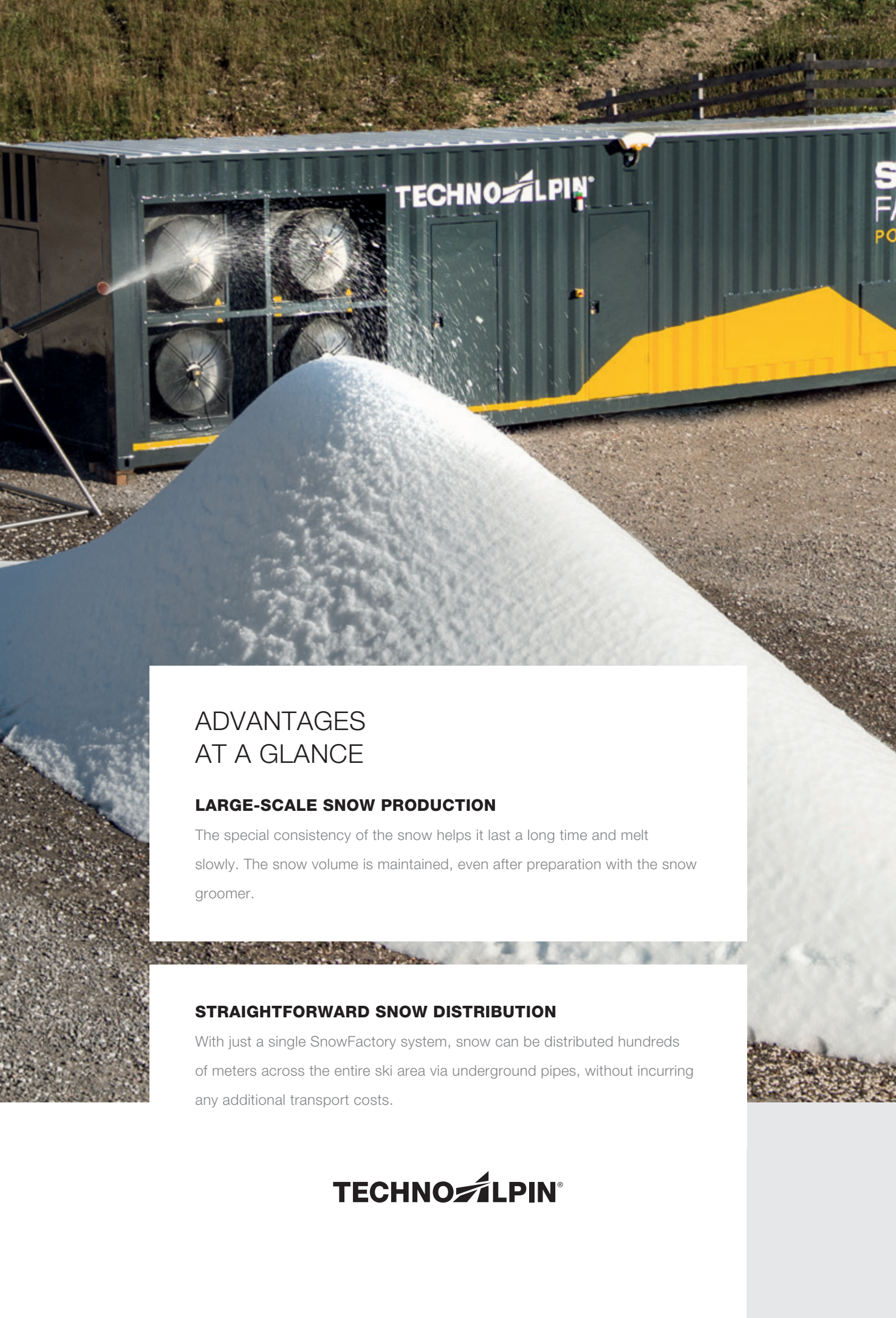
**SNOW+**  
FACTORY





## THE GUARANTEED START TO THE SEASON

Get winter planning down to a fine art with innovative snowmaking technology from the SnowFactory. The efficient technology with closed cooling circuit produces snow 365 days a year — even at warmer temperatures. Snow can therefore be generated at any location, indoors or outdoors, whether to guarantee a good start to the season for ski resorts, for snowmaking on cross-country ski runs or for events and competitions. The snow is produced solely from water — no chemical additives are used.



## ADVANTAGES AT A GLANCE

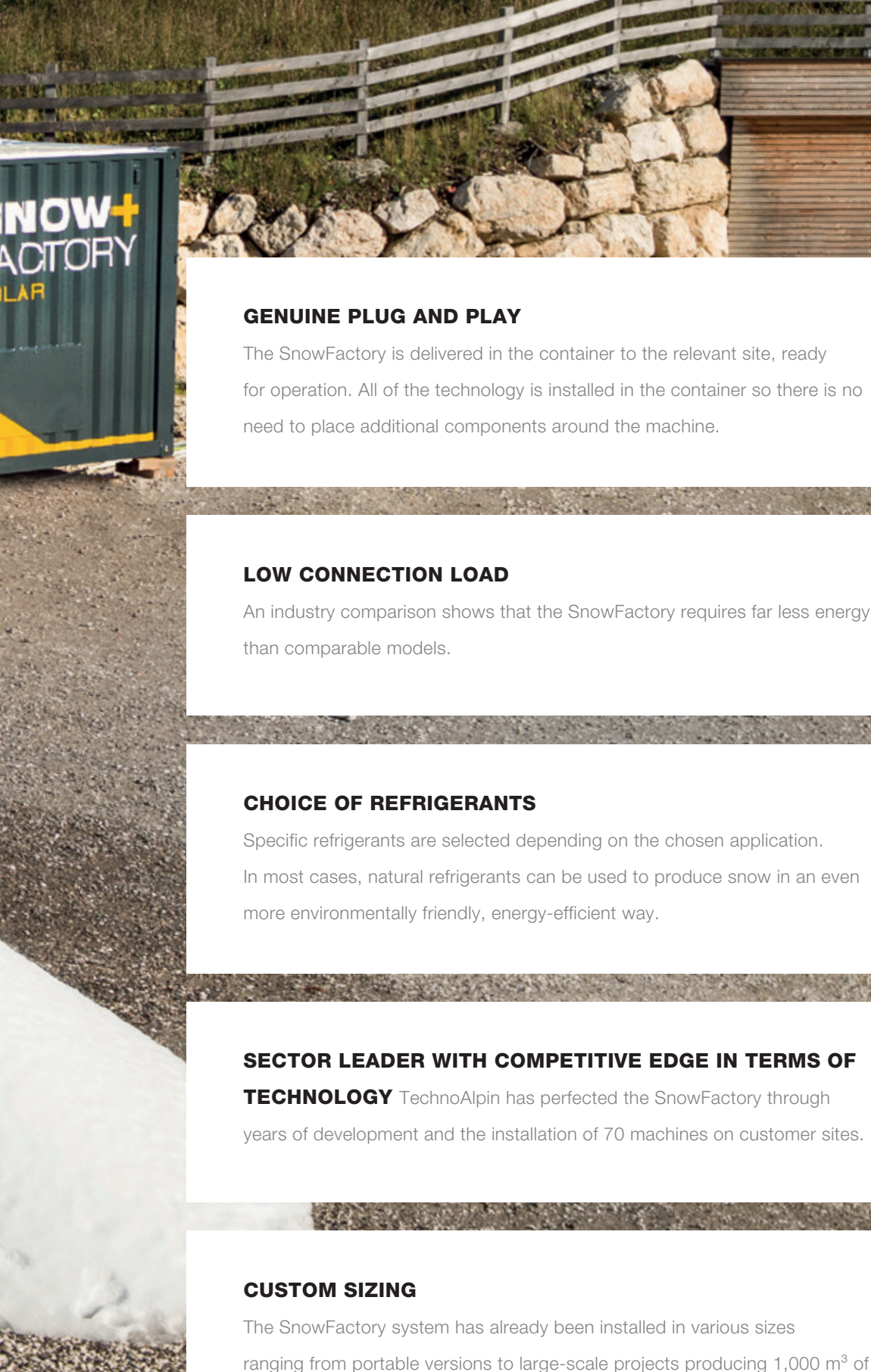
### **LARGE-SCALE SNOW PRODUCTION**

The special consistency of the snow helps it last a long time and melt slowly. The snow volume is maintained, even after preparation with the snow groomer.

### **STRAIGHTFORWARD SNOW DISTRIBUTION**

With just a single SnowFactory system, snow can be distributed hundreds of meters across the entire ski area via underground pipes, without incurring any additional transport costs.

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### **GENUINE PLUG AND PLAY**

The SnowFactory is delivered in the container to the relevant site, ready for operation. All of the technology is installed in the container so there is no need to place additional components around the machine.

### **LOW CONNECTION LOAD**

An industry comparison shows that the SnowFactory requires far less energy than comparable models.

### **CHOICE OF REFRIGERANTS**

Specific refrigerants are selected depending on the chosen application. In most cases, natural refrigerants can be used to produce snow in an even more environmentally friendly, energy-efficient way.

### **SECTOR LEADER WITH COMPETITIVE EDGE IN TERMS OF TECHNOLOGY**

TechnoAlpin has perfected the SnowFactory through years of development and the installation of 70 machines on customer sites.

### **CUSTOM SIZING**

The SnowFactory system has already been installed in various sizes ranging from portable versions to large-scale projects producing 1,000 m<sup>3</sup> of snow per day.

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## THE INCOMPARABLE TECHNOLOGY STANDARD

**ROBUST ICE-MAKER** The snow production technology developed in-house can withstand external influences.

**COOLED AIR** The sophisticated system improves the transport of the snow, reduces loss on melting and ensures seamless operation.

**LOW REFRIGERANT LEVELS** Refrigerant levels stay very low thanks to continuous innovation.

**INTUITIVE SOFTWARE** The control software developed in-house ensures straightforward operation and uncomplicated control via computer or mobile app.

**QUALITY STANDARD** TechnoAlpin quality for all components. All parts can be serviced and replaced immediately and without any problems.



## THE SNOWFACTORY AT SKI RESORTS

### POPPENBERG SKI LIFT (GER)

The Poppenberg ski resort is located less than 810 m above sea level and therefore installed the world's first SnowFactory in 2014. Today the resort uses 3 machines.

"We have installed over 30 pipes at the ski resort to allow distribution of SnowFactory snow into the majority of snow pits. This means that 600 m<sup>3</sup> snow/day can be delivered flexibly and with the utmost efficiency."

**Florian Leber,**

Ski resort owner and pioneer of SnowFactory technology

### MT. BULLER (AUS)

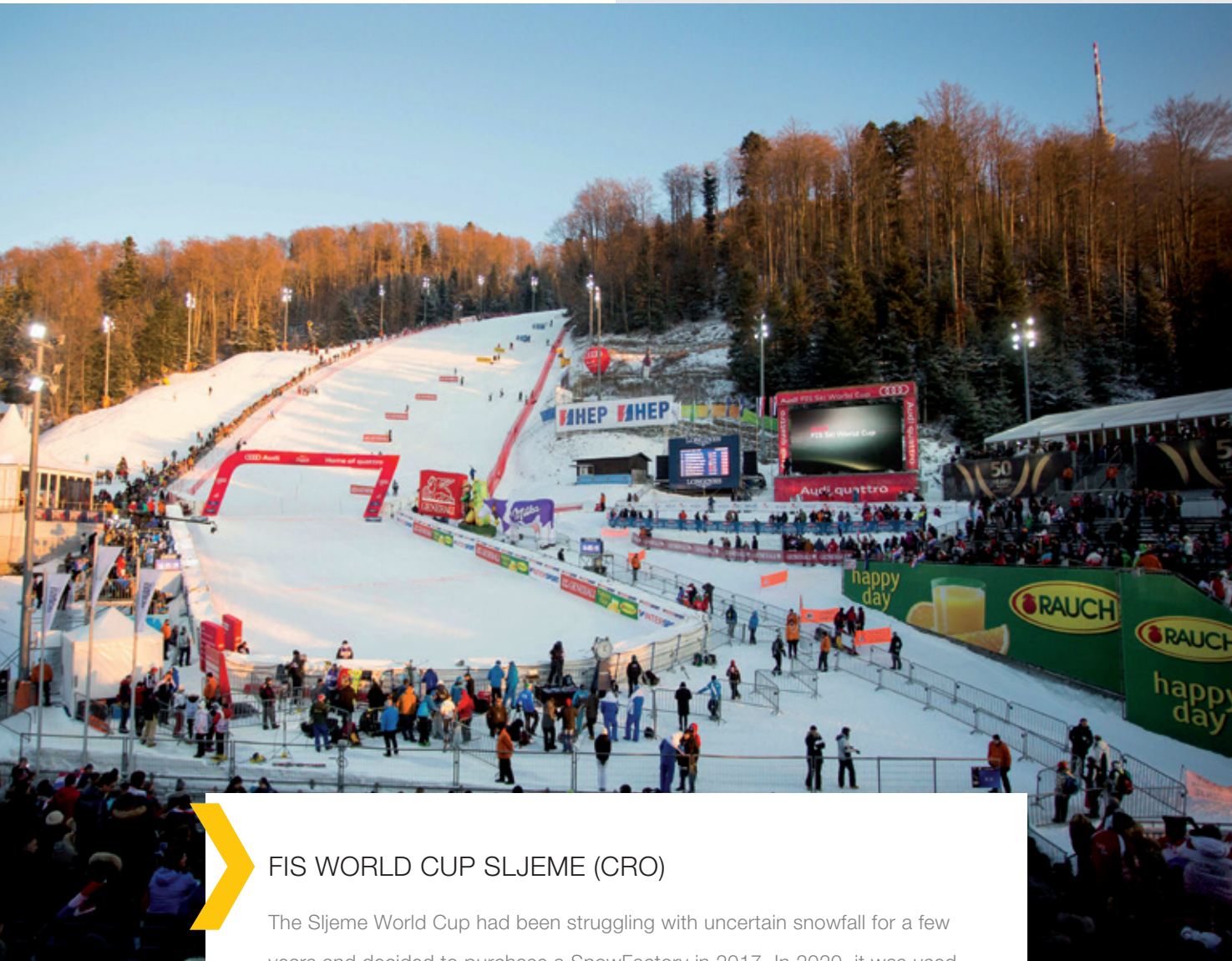
As the season was unable to start as scheduled, on the Queen's birthday, for several years in succession, Mt. Buller relied on a SnowFactory for the first time in 2017.

"In 2017, we were able to open one week earlier than planned and had a 48% increase in visitors. We achieved this with the help of the SnowFactory despite this being the driest winter on record for over 100 years."

**Laurie Blampied,** General Manager







## FIS WORLD CUP SLJEME (CRO)

The Sljeme World Cup had been struggling with uncertain snowfall for a few years and decided to purchase a SnowFactory in 2017. In 2020, it was used for snow coverage on the last section of the racing course.

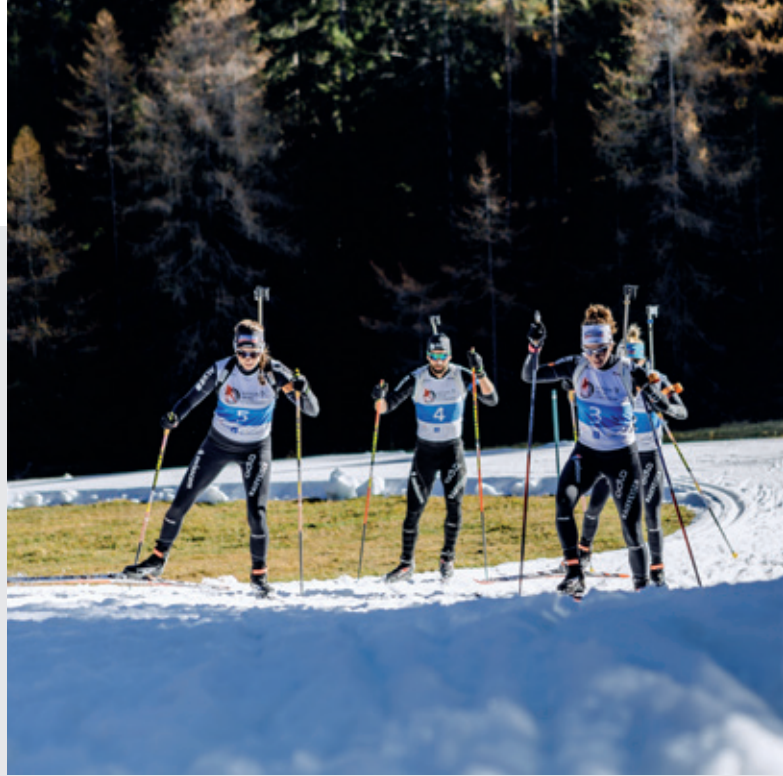
"Although the structure of SnowFactory snow is different than classic technical snow, it can be prepared so that no difference is noticeable for races."

**Markus Waldner**, FIS Men's Race Director

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## VERSATILE USE

The SnowFactory is available in various standard models and sizes. Therefore, the right solution can be delivered for every application. SnowFactory Polar is the standard model and is available as a fixed or mobile version. SnowFactory Arctic gives a convincing performance by doubling daily snow production.



## TECHNICAL DATA



Electrical properties			
Nominal voltage / nominal frequency	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz
Nominal current	250 A	150 A	303 A
Nominal power	130 kW*	90 kW*	185 kW*
Electric power - connection	228 kW	140 kW	300 kW
Design point			
Water temperature	5 °C	5 °C	5 °C
Air temperature	15 °C	15 °C	15 °C
Water consumption	0.55 l/s	0.55 l/s	1.1 l/s
Snow production	100 m <sup>3</sup> /d - 45 t/d	100 m <sup>3</sup> /d - 45 t/d	210 m <sup>3</sup> /d - 95 t/d
Working area			
Air temperature [min / max]	-5 / 20 °C	-5 / 20 °C	-5 / 20 °C
Water temperature [min / max]	5 / 20 °C	5 / 20 °C	5 / 20 °C
Dimensions			
Container	1x 40' HC	1x 40' HC	2x 40' HC
Length A	12.2 m	12.2 m	12.2 m
Width B	2.5 m	2.5 m	3.6 m
Height H	2.9 m	2.9 m	8.1 m
Weight	17,000 kg	17,000 kg	35,000 kg
Connections			
Water connection 1¼"	32 DN	32 DN	32 DN
Water pressure [min / max]	2 / 10 bar	2 / 10 bar	2 / 10 bar
Other			
Refrigerant	R449A	R717	R717
Control system	AtassPro	AtassPro	AtassPro
Option			
Snowquality system	10 kW	10 kW	10 kW

\*at the design point



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