



All Weather Snowmaker  
*Never too warm for snowmaking*

*Secure early start of your ski season*



# IDE's All Weather Snowmaker

There is one item that no ski or snowboarding resort can survive without: SNOW

Existing snow-production solutions require below freezing air temperatures and depend on climatic conditions such as humidity and wind.

The All Weather Snowmaker is capable of producing up to 1,720 m<sup>3</sup> (60,741 ft<sup>3</sup>) per day of high quality environmentally-friendly snow at all ambient temperatures.

The All Weather Snowmaker is based on IDE's proven Vacuum Ice Maker (VIM) Technology, which has been operating for more than 20 years worldwide.



## Benefits:

- Snow production at all ambient temperatures
- Up to 1,720 m<sup>3</sup> (60,741 ft<sup>3</sup>) of snow, per unit, per day
- High quality snow
- Environmentally friendly
- Energy efficient
- Low operation costs

## Testimonials by ski industry professionals



**Hans Pum, Alpine Director Austrian Ski Team:**  
"The snow quality and the opportunities for us are excellent"



**Vidar Løfshus, Chief Coach, Norwegian National Cross Country Team:**  
"I am calm when it comes to the future of snow production with or without sub zero temperatures. I can see great potential together with IDE Technologies"



**Dr. Hans Rubatscher, Manager of the Pitztal Glacier Resort:**  
"For the first time snow can be produced regardless of Temperature, Humidity & Wind"



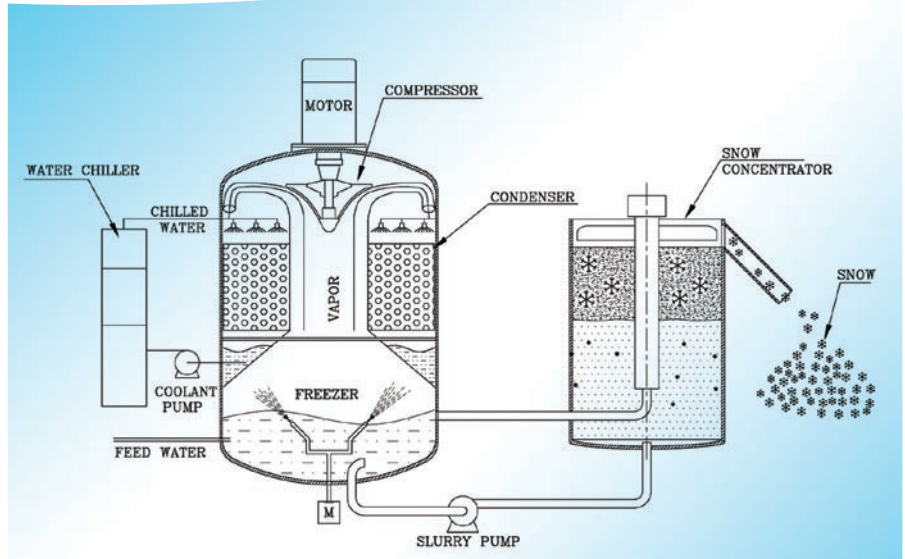
**Jim Tracy, Head Coach USA Women Alpine Ski team:**  
"I'm impressed with the produced snow quality you wouldn't be able to tell the difference between real snow and IDE snow"

## The Snowmaking Process

Inside the VIM freezer, water is exposed to deep vacuum. The vacuum forces a small part of the water to evaporate, while the remaining water freezes forming water-snow mixture.

The mixture is pumped out from the freezer to a snow concentrator that separates the water from the snow crystals and extracts high grade snow.

In order to maintain the deep vacuum in the freezer, the water vapor is continuously evacuated from the freezer, compressed and fed into a condenser by IDE's unique centrifugal compressor. Condensing of the vapor requires cooling water at 5° C (41°F), which is supplied from a standard water chiller.



**IDE All Weather Snowmaker**  
Slope at Pitztal, Austria  
Sept. '09, Temp. above 10°C (50°F)

Specifications	VIM 400 (Snow)	VIM 850 (Snow)
Cooling Capacity	1,750 kW	3,500 kW
Snow Making Mass Capacity	560 ton snow/day	1,120 ton snow/day
Max. Snow Making Volumetric Capacity <sup>(1)</sup> [at 4.5° C/40° F feed water temp.]	860 m <sup>3</sup> Snow/day 30,370 ft <sup>3</sup> Snow/day	1,720 m <sup>3</sup> Snow/day 60,741 ft <sup>3</sup> Snow/day
Electrical Supply	400V / 50Hz / 3 Phase or 480V / 60Hz / 3 Phase	
Typical Power Consumption	235 kW	397 kW
Specific Power per Mass	10 kW/ ton Snow	8.5 kW/ton Snow
Specific Power per Volume <sup>(2)</sup>	6.6 kW/m <sup>3</sup> 0.19 kW/ft <sup>3</sup>	5.5 kW/m <sup>3</sup> 0.16 kW/ft <sup>3</sup>
Snow Quality	"Spring Snow"	
Snow Grain Size	0.5-1.0 mm 0.02-0.04 inch	

<sup>(1)</sup> Considering average snow density of 650 kg/m<sup>3</sup> (40.6 lb/ft<sup>3</sup>). After being drained - 550 kg/m<sup>3</sup>

<sup>(2)</sup> The power consumption refers to the VIM unit only and does not include the supporting cooling system (Chiller, Cooling Tower and Cooling Tower circulation pump)

*Pitztal Glacier  
Ski Resort, Austria*



**About IDE Technologies**

IDE Technologies, established in 1965, is a world leader in the development and construction of water treatment, seawater desalination and snowmaking plants with 400 plants installed in over 40 countries worldwide.



**Secure Early Start of Your Ski Season**

Follow the ski resorts of Pitztal (Austria) and Zermatt (Switzerland) and secure snow production whenever you need it.



**IDE**  
technologies ltd.

**WE MADE  
OUR MARK  
IN WATER**

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