## VIM 100 All Weather Snowmaker

#### Product Data Sheet

### 1. Features

The VIM 100 All Weather Snowmaker is capable of producing 200 m3/day of high quality snow, at all ambient temperatures. It is based on IDE's proven Vacuum Ice Maker (VIM) Technology, which has been operating worldwide for over 20 years.

The VIM 100 All Weather Snowmaker secures reliable snow production throughout the entire ski season.

## 2. Process Description

The VIM 100 is based on IDE's existing vacuum ice making technology.

Inside the VIM 100 freezer, water is exposed to deep vacuum. The vacuum forces a small portion of the water to evaporate, while the remaining water freezes and forms a water-snow mixture (slurry). This mixture is pumped out from the freezer to a snow separator (snow gun) that separates the water from the snow crystals.

To maintain the deep vacuum in the freezer, the water vapor is deposited on cold plates inside the freezer vessel. The plates are frequently defrosted to maintain continuous heat rejection in the freezer.

# 3. Value Proposition

Table 1: Value Proposition	Benefits	
Feature Feature	Belletits	
All weather support	Early site opening	
	Peace of mind in operation	
	(guaranteeing snow)	
Unified Product	Agile, off-the-shelf solution	
Plug-and-play solution	Easy setup avoiding new	
	infrastructure cost	
	Simple migration from existing	
	snow guns	
Mobile Solution	Efficient snow distribution	
	(reduced OPEX)	
Modular Solution	Easy deployment and	
	maintenance (reduced OPEX)	
Energy efficiency	Reduces OPEX	
Environmental friendly	Easy alignment to local	
	regulations	
	Easy maintenance (reduced	
	OPEX)	

4. Technical Specifications

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Table 2: Technical Specifica	tions	VIM100		
Specifications				
Snowmaking Mass Capacity (at		112 ton snow/day		
4.5°C/40°F feed water temperature)				
Snowmaking Volumetric Ca	wmaking Volumetric Capacity (at		200 m3/day	
4.5°C/40°F feed water temper	erature) *1			
Electrical supply		400V / 50Hz / 3 Phase or 480V / 60Hz / 3		
		Phase		
Designed Power Consumption		<170 kW (el. Leistung)		
Designed Cooling Capacity		350 kW (Kühlleistung)		
Snow Quality:		High Quality Snow		
Snow Grain Size		0.5 – 1.0 mm		
Snow Density		500 kg/m3		
Nominal Feed Water Flow Rate		4.7 m <sup>3</sup> /hr		
Recommended Feed Water Temperature		2°C - 6°C		
range *2				
Dimensions:				
VIM Freezer Dimensions	1 x 40' HQ container		1 x 20' container	
LxWxH	12.19m x 2.44m x 2.89m		6.06m x 2.44m x 2.59m	
Snow Gun Dimensions DxH		1.3m x 5m		

<sup>\*1</sup> Considering an average snow density of 500 kg/m3 (31.1 lb/ft3) at the snow concentrator chute outlet. \*2 The VIM can be operated with any given feed water temperature. Each 1°C (1.8°F) increase in the temperature of the feed water reduces the snow production by 1.5%.