

# SNOWROOM

PRODUCT CATALOGUE

TECHNO  ALPIN® INDOOR



# Snow For The Sauna

## An Innovative Cold Treatment

The TechnoAlpin SnowRoom is nothing short of an innovation in the wellness sector. This entirely new feel-good experience is for all those who love the sauna, and it embraces a gentle, dry cold for the cooling down process. The SnowRoom experience takes the sauna guest into the relaxing, calm ambiance of a winter landscape environment, complete with fresh snow. The SnowRoom represents patented technology from parent company TechnoAlpin, the world leader in snowmaking technology, and guarantees snow 365 days a year.

### Real Wellness Innovation

A SnowRoom complete with real powder snow as part of the sauna complex is not only a pleasant surprise for wellness guests; it also represents an innovative, value-added feature that makes the facility stand out when compared to the more traditional competition.

### A Brilliant Added Extra

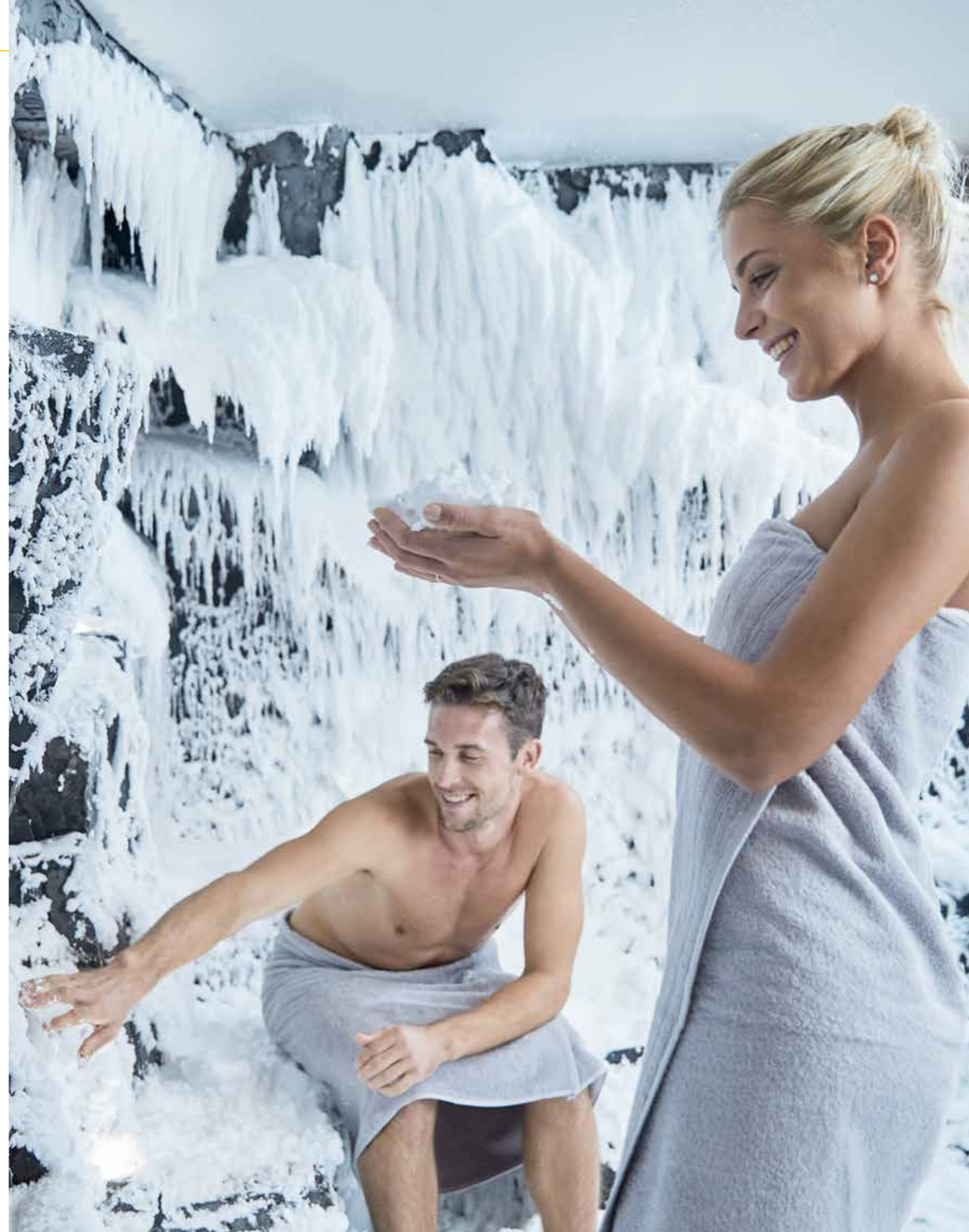
The SnowRoom not only makes guests feel great; it also looks amazing. Quite apart from those who want to revel in the post- sauna cooling down process, it can also be a magnet for those who are curious to see it for themselves. They will be delighted to experience just how natural the snow feels.

### Individual Cooling

Cooling down after the sauna is an integral part of the process, but not everyone tolerates the same level of cold. The SnowRoom provides ideal conditions to cool down while avoiding the shock of cold. Instead, the dry ambient air temperature of -10 degrees Celsius feels refreshing, a gentle snow massage will intensify the cooling if desired. Guests will stay as long as it feels comfortable, while at the same time enjoying the ambiance of the pleasant winter landscape.

### Health Advantages

Snow can serve as a complementary treatment for various health issues. This advantage serves as an attractive value- added feature for the overall spa facility and the sauna.



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# Design and Dimensions of SnowRooms

## **Tailor-made Recreation Area**

TechnoAlpin offers tailor-made SnowRooms where the design is adapted to suit the client's wishes and local conditions. TechnoAlpin will always find the perfect solution to suit the size of the wellness facility, the frequency of guest visits, the physical features, and the customer's individual preferences. The unit is constructed using versatile, modular-style cabin panels, allowing for an extension, if and when required. Various options will always be on offer regardless of required size and depending on the technology deployed.

TechnoAlpin creates unique and very exclusive tailor-made cabins customized to suit the customer's desired design, size, and optional accessories. The SnowRoom can be flawlessly integrated into any existing wellness facility and seamlessly adapted to blend into the overall design concept. Forest or rock cave, rustic or modern – the SnowRoom is endlessly versatile.

# Forest Design

A peaceful oasis set in a magical winter landscape, a forest glade right in the center of a wellness area. Fresh snow gathers on the SnowRoom's winter tree allowing guests to scoop it up and use it for an invigorating personal body massage. Wooden seating provides the right atmosphere to linger, relax and breathe deeply.

**The forest design creates a moment of inner peace in a charming natural environment, enhanced by the enduring fascination of snow.**

This pleasant woodland atmosphere, complete with its snow-bedecked tree allows guests to enjoy precious, back- to-nature moments.

## Basic Configuration

High-quality, digitally- printed decorative wall surfaces  
with optional backgrounds

LED lighting throughout the room

Stylized winter tree to collect the deposits of snow

Wooden bench seating

Forest scents and sounds



# Rock Design

A rocky cave set right in the heart of a modern wellness area. Walls and ceilings are designed to create niches and small ledges that encourage the formation of fresh snow deposits. Guests therefore always have small deposits of soft snow on hand for gentle body massages. The grotto-like rock environment creates a feeling of cozy intimacy that encourages guests to rediscover their inner selves and restore their sense of wellbeing.

## Basic Configuration

- Interior wall cladding made of decorative, water-repellent artificial stone
- Discrete, indirect LED lighting
- Niches to encourage snow deposits
- Artificial stone seating



# Custom Solution

While a forest or natural ambiance may not always create the right mood in a wellness area, snow certainly guarantees it.

TechnoAlpin responds to individual customer requests by designing the SnowRoom with any desired motifs. These are naturally matched with just the right accessories to encourage the deposits of snow. The interior of the TechnoAlpin SnowRoom can be customized to suit the customer's requirements, but the fascination with snow remains.



## Individual Interiors

Walls feature a high-quality, digitally printed background tailored to suit the customer's preference

LED lighting throughout

Accessories may vary according to the motifs and are chosen in consultation with the customer

However, the basic multifunctional EcoSnow 2.0 unit always remains the same because it is a concept that allows for unrestricted use. The mono-variant of EcoSnow 2.0 is used for small rooms and comes with an air-conditioning unit and a snow nozzle. Larger units deploy the dual-variant, which has two air-conditioning units and two snow nozzles.

# Snow Sauna

## The Treatment

### Hot & Cold

#### The Health Advantages

The Snow Sauna treatment, if correctly applied, can provide health benefits. It also results in a general feeling of wellbeing that refreshes and revitalizes and has the aesthetic advantages of firming the skin and enhancing detoxification.

**1 Metabolism**  
The alternating application of heat and cold stimulates metabolism and supports fat burning and detoxification.

**2 Muscle Stimulation**  
Encourages muscle regeneration after physical exercise or athletic activity.

**3 Pain Relief**  
Repeated application of snow, even when alternating with heat, helps to alleviate chronic pain in muscles and joints.

**4 Sleep**  
Stimulation of serotonin production and activation of endorphins promote deep relaxation and a sense of inner peace.

**5 Immune System**  
Exposure to alternating temperatures strengthens the immune system and stimulates blood circulation.

Sebastian Kneipp was a pioneer in his time who taught us about the health benefits derived from the alternation between hot and cold. An extension of this practice is the snow room, with an application combining heat and dry cold. With its fusion of dry snow and cold air, the snow room offers a gentle and pleasant cooling effect.

This application is also suitable for people who cannot bear the cold water. This booklet (available at TechnoAlpin) explains the application and the associated health effects:



### Sauna



#### Warm-up

Sit or lie down in the sauna for 12 to 15 minutes, depending on physical condition.



### SnowRoom



#### Cooling Down Phase

Deep breathing refreshes the lungs, whether the guest is sitting or standing in the SnowRoom. A gentle snow massage helps to cool down even more efficiently or to stimulate sore parts of the body to relieve the pain. Recommended duration: 3 - 5 minutes for women, 4 - 8 minutes for men.



### Relax



#### Relaxation Phase at

#### Room Temperature

15 - 20 minutes. Repeat the cycle if desired.





# Versatile Wellness

## Various Areas of Application, a Unique Wellness Experience

TechnoAlpin creates a winter atmosphere with the enduring fascination of snow throughout the year, and anywhere in the world. The SnowRoom can be deployed in a multitude of ways and is highly suited to thermal baths, private homes, superior class wellness hotels, luxury cruise ships, and fitness facilities.



Hotel Weinegg\*\*\*\*\*, Cornaiano, Italy

## Super Class Hotels - Added Value for Both Hotelier and Guest

The SnowRoom allows superior class hotels with a dedicated wellness area to offer their guests a unique relaxation experience. TechnoAlpin SnowRooms can be installed in very small spaces and be entirely individualized. The fascination of snow offers new incentives for wellness holidays and dedicated days of rest and recreation.



Hotel Erica\*\*\*\*S, Nova Ponente, Italy



Private House

## Private Pleasure - Relax at the Snow in Home

A SnowRoom can be easily installed in private residences and facilities, creating the possibility of enjoying wellness recreation, with all the real advantages for body, mind and general health right within one's own four walls. The numerous options to customize the SnowRoom allows for unique installations, designs, and sizes.

## Fitness Center - Snow-Wellness in Sports

The SnowRoom, with its unique dry cold, can be very beneficial, especially for athletes because it enhances performance readiness and encourages the regeneration process. The body can recover faster after peak athletic performances, such as training sessions or competitions.



Fitnesspark Heuwaage, Basel, Switzerland



Splash e Spa, Rivera-Monteceneri, Switzerland

## Thermal Baths and Day Spas

The TechnoAlpin SnowRoom enhances the value of thermal baths and day spa facilities by adding value to their traditional offer with this innovative cold treatment. The SnowRoom can be an exclusive highlight for customers of all ages who are looking for relaxing and regenerative body treatments.

# Unsurpassed Technology

## 1 EcoSnow 2.0 The Heart of the System

The multifunction unit EcoSnow 2.0 operates using a snowmaking technology specially designed for indoor environments. At the same time, it serves as the SnowRoom's cooling system and features the following essential functions:

- ❄️ Central control unit of all components and operating conditions
- ❄️ Cooling of the room to the necessary temperatures

- ❄️ Conditioning of the air and water for snow production
- ❄️ Control of the snow nozzles for the production of soft powder snow

EcoSnow 2.0 is the central technical element of the entire system. It requires very little space, and its positioning is very flexible. It can be placed up to 50 m away from the SnowRoom.



## 2 The SnowRoom Facility Enhanced with High-quality Special Features

The refrigeration system of the SnowRoom continually cools it to sub-zero temperatures. A specially designed and patented snow nozzle ensures the production of snow starting at temperatures of -5°C. The floor, ceiling, and walls are fitted with very compact, hard foam material to en-

sure optimal, energy-efficient insulation. The standard triple-glazed entrance door also provides above average, high thermal insulation. The SnowRoom is also equipped with a special floor coating and a central water drain so that the water from the defrosting process can be drained. Larger

SnowRooms feature a glazed and pre-cooled anteroom, which ensures efficient cooling of the SnowRoom and the very best snow quality, even with high visitor frequency.

## 3 The Recooling Circuit Different Types of Efficient Recooling

The recooling of the condenser, which is a part of the refrigeration circuit of the EcoSnow 2.0, can be carried out in two ways:

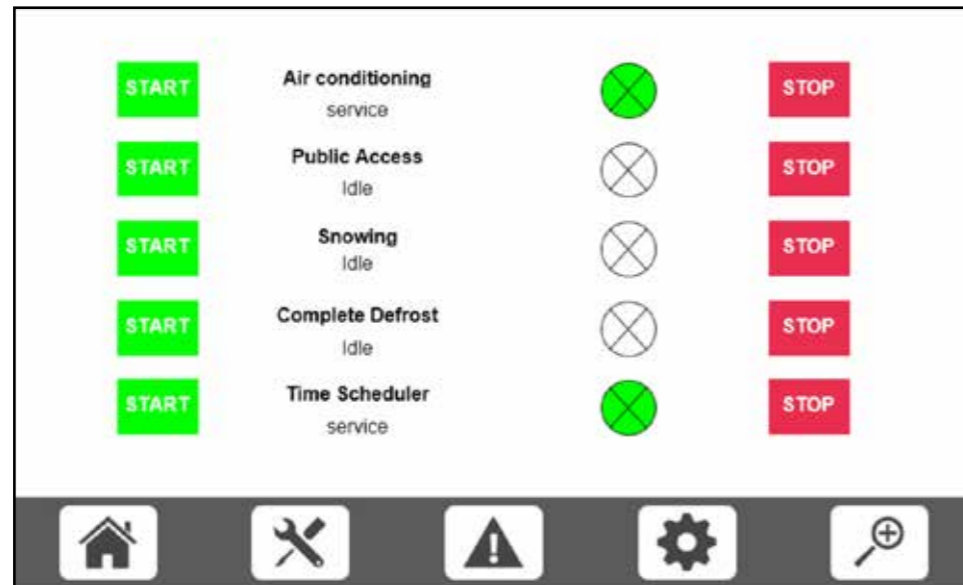
- ❄️ Waste heat recovery using an additional heat exchanger: the recovered heat can be used for heating swimming pool water or be connected to an existing cooling system in the building.
- ❄️ Recooling the condenser with the aid of a dry cooler, which can be installed either in the plant room or outside the building.

### Optimal Interplay of Technology, Space, and Recooling

The TechnoAlpin SnowRoom can produce snow 365 days a year. The snow in the SnowRoom consists of pure air and water and contains no artificial additives. It is the

absolute equivalent of natural snow and is the result of innovative, optimally adapted technology.

# Quality at the Push of a Button



Touch

Remote



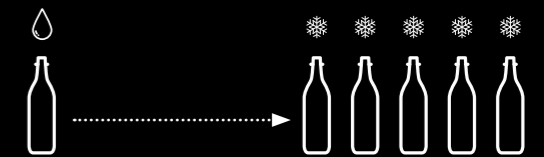
## Operating the TechnoAlpin SnowRoom

A 7-inch touch panel provides easy instructions concerning modes of operation, and the program timers control and monitoring of all operating functions of the EcoSnow 2.0. TechnoAlpin gives the customer detailed instructions concerning the operating process and a longer life-time of the technical components. These instructions guarantee a smooth operation, and the program timers on the delivery of the SnowRoom. These instructions guarantee a smooth

In general, the operational cycle of the SnowRoom can be divided into four phases:

### 1 Cooling Phase

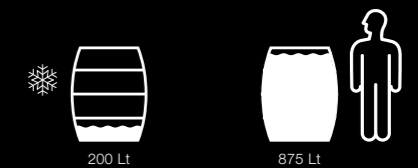
The SnowRoom is cooled to approx.  $-5^{\circ}\text{C}$  to  $-11^{\circ}\text{C}$  during this phase. A temperature sensor permanently controls the cooling process so that the SnowRoom reaches the required room temperature.



Maximum efficiency  
Five liters of snow are produced in the SnowRoom using one liter of water.

### 2 Snowmaking Phase

Snow production commences at a temperature of  $-5^{\circ}\text{C}$ . A snowy haze fills the room, distributed and deposited throughout as finely textured powder snow. It is recommended to begin the snowmaking phase at night to ensure the facility is ready for visitors the following morning. The volume of snow produced in the SnowRoom is five times the volume of water used in the process. The maximum duration of snowmaking depends on the size of the room.



Resource-efficient solution  
Approx. 200 liters of water are used every week to produce snow in a medium-sized SnowRoom. By comparison, the average water consumption per person in Central Europe is 875 liters per week

### 3 Public Access Phase

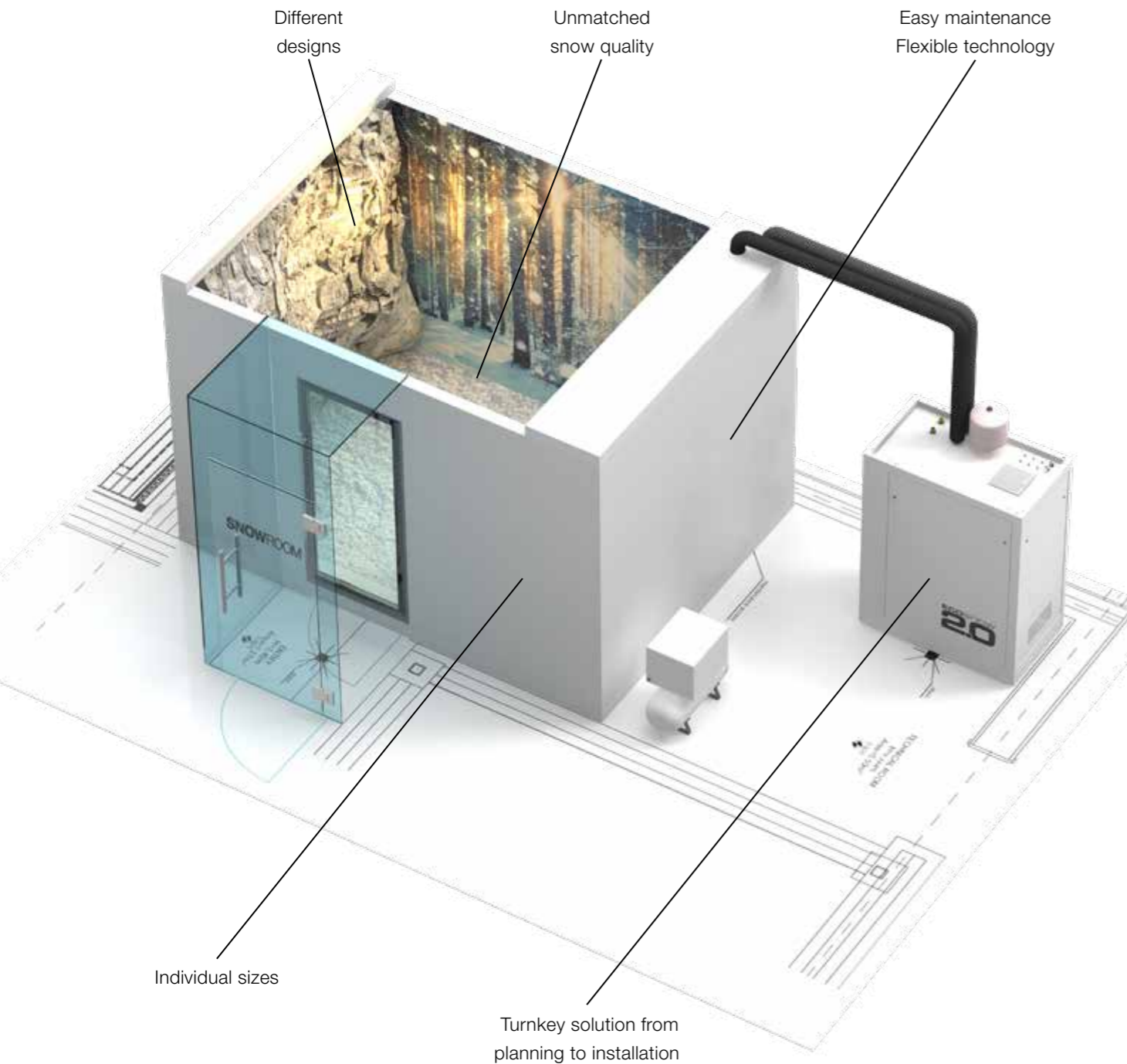
Following the production of the snow, the system switches by default to the so-called public access phase. Snowmaking ceases, and the room temperature is kept at between  $-5^{\circ}\text{C}$  and  $-11^{\circ}\text{C}$ .

### 4 Complete Defrosting

A complete defrosting should be carried out at regular intervals (at least once a month) to guarantee optimal snow quality. This process can easily be activated using the operating panel. The air-conditioning unit conveys warm air into the room. If necessary, hot water can also be injected into the chamber to accelerate the defrosting process. It is recommended to clean the SnowRoom after the defrosting is complete.

# Unsurpassed Design

The Advantages of a TechnoAlpin SnowRoom at a Glance



## Turnkey Solution

Planning, installation, and service from a single source: this enables perfect coordination, is very uncomplicated and significantly reduces any customer input. It also guarantees investment security in the medium and long-term.

## Easy Maintenance

The device can be positioned up to 50m away, and at the same time, it is very easy to access for maintenance purposes. Inspection openings facilitate access to air-conditioning units and snow nozzles, which are specially adapted for ease of maintenance.

## Unmatched Snow Quality

TechnoAlpin not only guarantees top-quality snow but also applies the same exacting standards to the SnowRoom itself, which, for example, features a non-slip surface floor inclined towards the floor drain. This is not only a standard feature that enhances safety. It is also easier to clean.

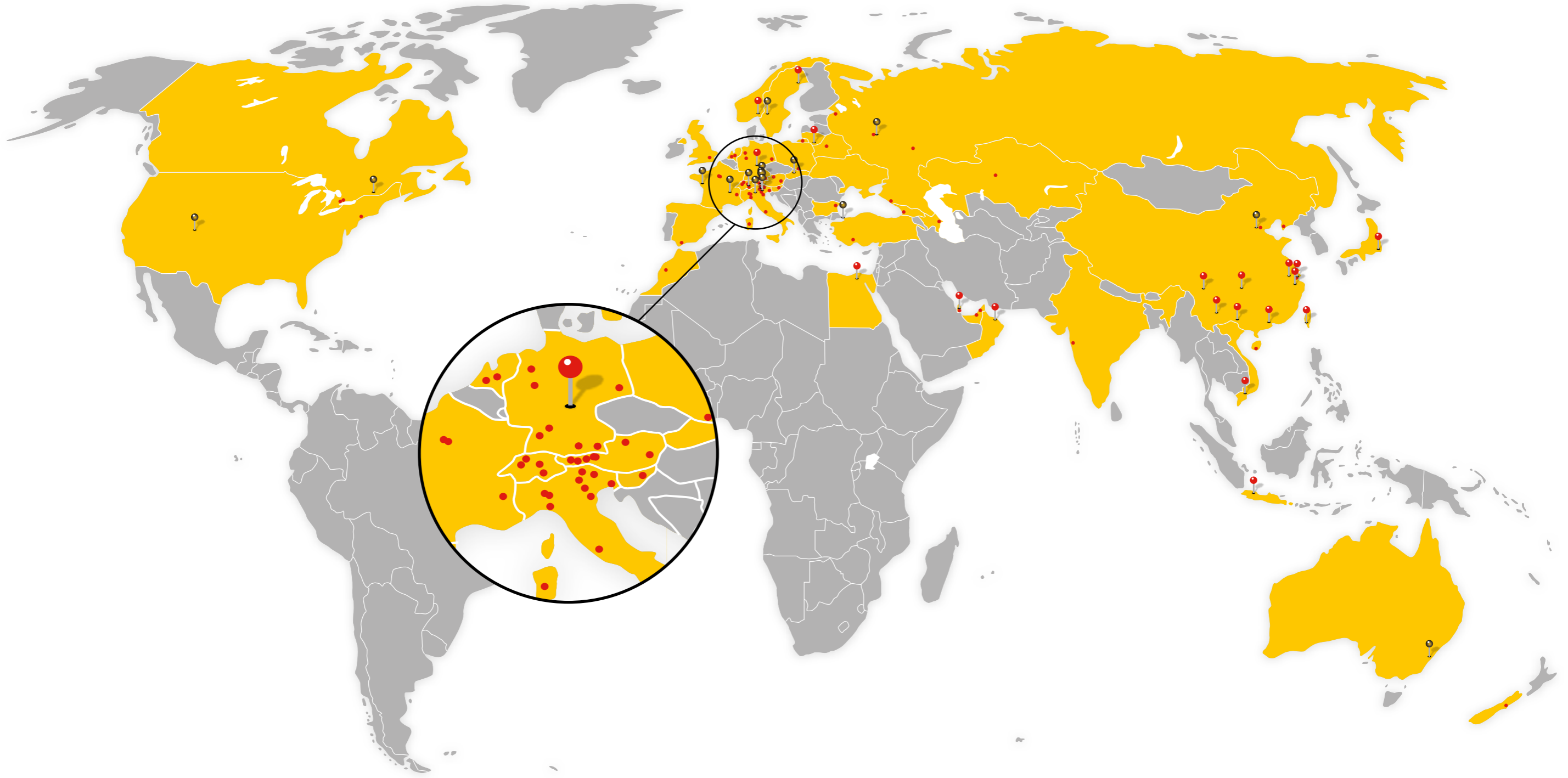
## Unlimited Possibilities

The modular design allows a high degree of flexibility when adapting to local conditions and the required size.


## Individual Recreation

TechnoAlpin's design and fittings come with different options and can, therefore, be easily adapted to suit any overall style concept. There is an attractive choice of seating options, wall cladding, and lighting systems. Each SnowRoom is a place for individual recreation.

# Our References



 Indoor Ski Resorts and Snow Theme Parks

 TechnoAlpin Subsidiaries

 SnowRooms

# Technical Sheet

<b>SnowRoom Dimensions</b>	SnowRoom sizes (small- medium-large)	Customized dimension up to 25 m <sup>2</sup>	
	Minimum size of the SnowRoom volume	8,6 m <sup>3</sup>	
<b>Temperatures</b>	SnowRoom temperatures (min-max)	from -5°C to -11°C	
<b>Interior</b>	Design	Forest Design, Rock Design	
<b>EcoSnow 2.0 Multifunction unit</b>	Depending on visitor frequency and SnowRoom size	EcoSnow 2.0 Mono	EcoSnow 2.0 Dual
	Length	1338 mm	
	Width	740 mm	
	Height	1680 mm	
	Weight	450 kg	
<b>Electrical Specifications</b>	Nominal voltage	400 V	
	Nominal frequency	50 Hz	
	Power rating	18 kW	20 kW
	Line fuse	20 A	40 A
	Average power consumption for cooling cycle	5 kW	
<b>Refrigeration cycle</b>	Refrigerant	R407F	
	Refrigerant filling capacity	2,5 kg	
	CO <sup>2</sup> equivalent	4560 kg	
<b>Water for Snow-Making</b>	Water quality	Drinking water	
	Water consumption per snow nozzle (min-max)	up to 20l/h	up to 40l/h
	Snow quality	Dry powder snow	
<b>Control</b>	Remote access	Via Ethernet	
	Manual operation	Colour touchscreen 7-inch	
	Timing control	Snow cycles individually programmable	
<b>Plant room for EcoSnow 2.0</b>	Min. space availability	4,5 m <sup>2</sup>	
	Max. distance from utility room-SnowRoom	50 m	
	Min. volume of space availability	8,6 m <sup>3</sup>	
	Ambient temperatures (min- max)	6 - 35 °C	
<b>Optional components</b>	Air compressor		
	Recooling system options for Ecosnow 2.0 (air re cooler, external heat exchanger for heat recovery)		
	Glazed anteroom (for larger SnowRooms)		

# About TechnoAlpin

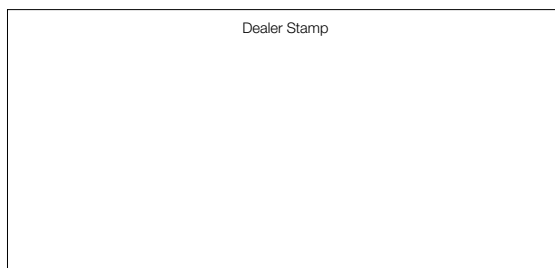
TechnoAlpin the world's leading innovator in the snowmaking sector. TechnoAlpin dedicates itself to creating snow of exceptional quality. The company has been planning and implementing snowmaking facilities worldwide since 1990. Nearly 2,000 customers in more than 50 countries rely on secure supplies of snow through the use of the company's custom-made, snowmaking equipment.

TechnoAlpin is committed to a substantial investment in research and development and is now the industry's leading innovator. As a result, TechnoAlpin undisputedly leads also in the Indoor Snow field in terms of technology and quality.

TechnoAlpin has already installed many SnowRooms around the globe. Contact us to know more about our references.

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