



realice

ICE RINK TECHNOLOGIES

Dear ICE Enthusiasts,

As the managing director of my family business, Intercom Dr. Leitner, I would like to extend a warm welcome to the world of REALICE – a world developed by people for people, with one main goal: happy times and beautiful memories on ice. Behind these unforgettable hours spent with family and friends lie sophisticated technologies that have been tried and tested over the years, and which we make available to our customers around the world in the form of mobile and permanent solutions. We've been running our own ice rinks for many years, so our expertise is based not just on what our customers say, but also on our own experience. We've also developed the ICE calculator, which you can use to outline your own ice rink yourself in no time and determine its potential economic benefit.

The **#power** we personally invest in every project, our **#passion** for ICE, combined with our technical **#excellence** are what make REALICE unique.

Warmest regards,
Christof Leitner



welcome to paradice

Mobile ice rinks	06
Permanent ice rinks	28
Synthetic ice rinks	44
Events, official supplier & alliances	46
Accessories & tools	48
Intelligent management	54
Sustainable & efficient	56
Financing options & REALICE services	58

REALICE

Ice rink technologies

WE CREATE ICE RINKS THAT PEOPLE LOVE.

For decades, our sophisticated, patented REALICE technology has made us a leading supplier of mobile and permanent ice rinks. We're passionately dedicated to our customers and we strive to create unique, customized ice worlds that inspire millions of people worldwide.

- ☆ **Patented ice rink technology**
- 💬 **Customer focus:** individual planning and customized solutions
- ↔ **Flexibility:** ice surfaces from 50 to over 10,000 m² (540 ft² – 107.000 ft²)
- 🔑 **Turnkey projects:** from planning to construction
- 🕒 **Speed:** completion can be in less than 24 hours
- 🌐 **Worldwide references and years of experience**

all *ice*
on you



MOBILE ICE RINKS



Mobile Ice experience worlds

REALICE can use its sophisticated and patented technology to develop mobile ice experience worlds of any shape and size. These range from turnkey standard ice rinks, to ice adventure worlds covering over 10,000 m² (107,000 ft²). Ideal for seasonal attractions in cities and tourist destinations, or for semi-mobile ice rinks in sports and leisure facilities, REALICE offers custom solutions to every situation, from planning to implementation and management.

Rink. Path. Slide.

Our technology is one thing above all: adaptable to the shape and size of any project, whether that means a traditional rectangle, an adventurous path, or an ice slide.

- 🕒 **Speed:** from project planning to installation and disassembly
- ✓ **Ice quality:** the very best ice quality, regardless of weather and temperature
- 🌿 **Sustainability:** 40% less energy consumption using green technology
- 🕒 **Customer care:** there for our customers, 24/7
- 💰 **Business model:** attractive payment, purchase, and rental models
- 🧮 **ICE calculator:** calculate your earnings at the click of a button

ICE rink



CLASSIC ICE SURFACES

Whether as a winter attraction for children and adults in a small town, an additional attraction at a hotel for its guests, or a Christmas market highlight – the traditional rectangular ice rink has always been a massive draw and is the perfect winter leisure offering, not least because of its unique atmosphere.

We can create any size of ice surface, including the surrounding barricade system. Ice skates, ice skating aids, and ice stocks can also be obtained from REALICE – including for rent. And we offer ice processing machines what will give you the very best ice quality.



ICE path



LIMITLESS ICE ADVENTURES

If you want to turn ice skating into a true experience and adventure, opt for what we call 'ice paths', which can be designed and built any way you like. A REALICE adventure world is above all flexible. Every year its ice technology can be turned in new shapes and sizes: 180-degree curves, circular paths, ice surfaces on several levels including inclines and declines... the list goes on.

We work with our customers to develop genuine attractions that suit the conditions of the location as well as their own particular ideas and wishes. In addition to offering all the equipment, we have an international network of partners who can deliver impressive lighting and sound concepts, among other things.



ICE slide



ICE SLIDES WITH A GUARANTEED FUN FACTOR

Everyone loves a slide. We build tire ice slides of every shape, length, and inclination. We just connect our ICE-plus® mats to the cooling circuit, and you're ready to go. We offer side safety barriers to minimize the risk of accidents.



REALICE technologies

INNOVATION IS WHAT DRIVES REALICE – Ice Rink Technologies. The very best engineers and product and market developers are dedicated to technological advancement in each of our business areas. For mobile ice rinks, we offer a patented solution which is used successfully all over the world and rated by customers as best in the following categories:

✓ Ice quality and reliability

↔ Flexibility of area and shape

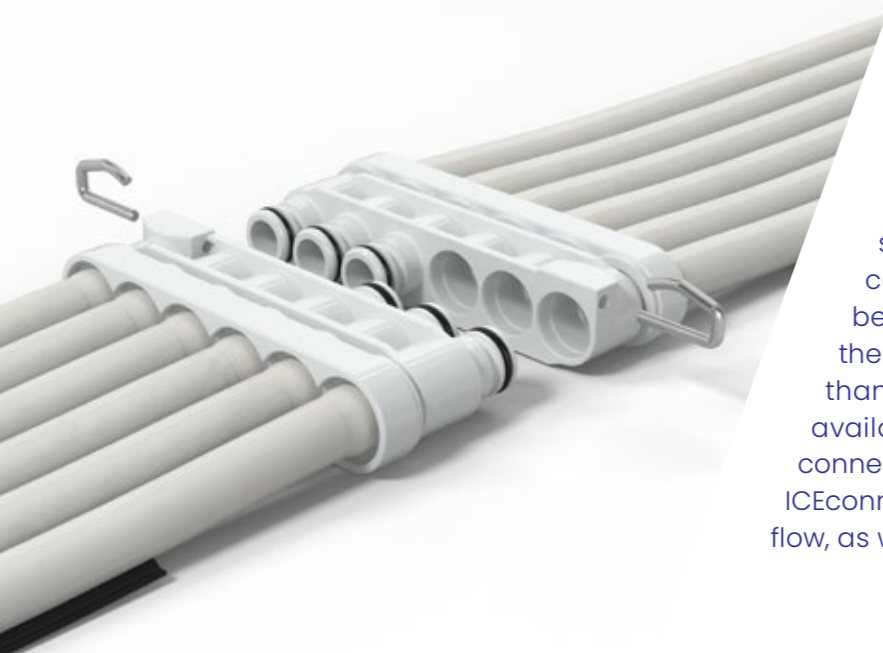
♻️ Energy consumption and sustainability

✏️ Customization options

🕒 Fastest assembly/disassembly

💰 Attractive business model

💡 Temperature resistance



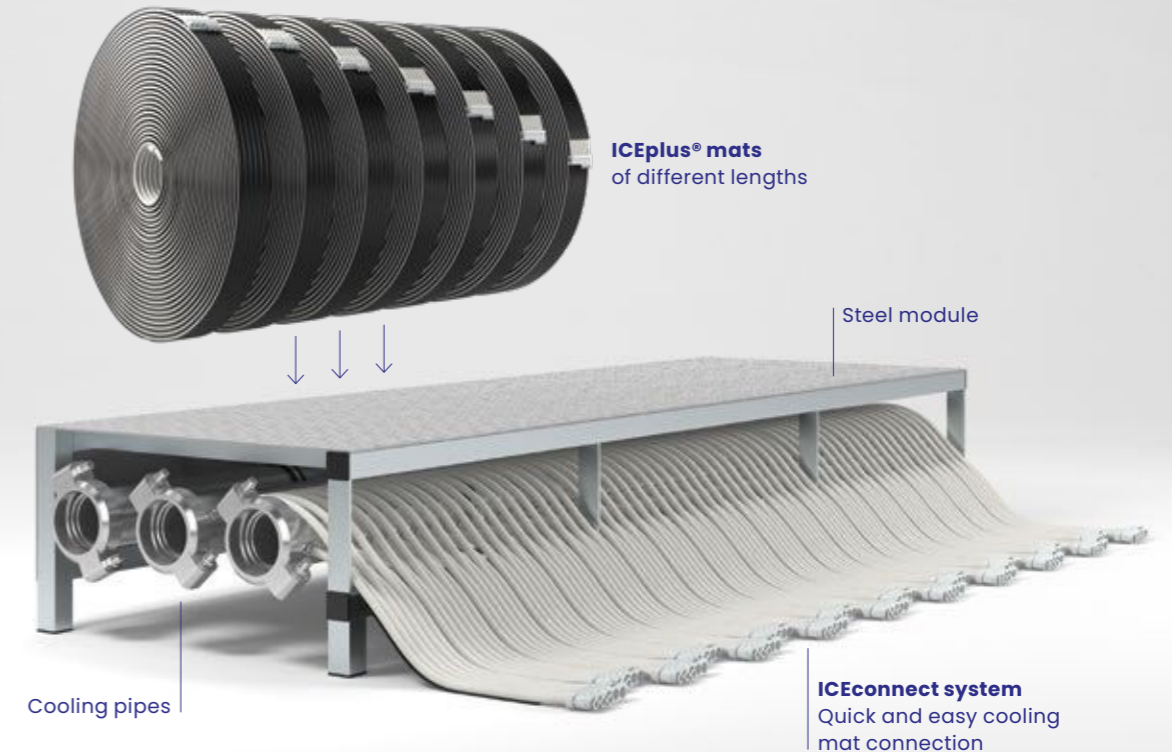
ICEplus® & ICEconnect

Because its cooling tubes have larger inner diameters, our white cooling mat system ICEplus® guarantees lower energy consumption as well as demonstrably better-quality ice. They are UV-resistant and the ice formation process is many times faster than with conventional systems. ICEplus® is available in different lengths and can be connected quickly and safely using our intelligent ICEconnect connector. And it guarantees perfect flow, as well as perfect ice.

ICESystem – intelligent modular system

Our REALICE modules are positioned along the shorter side of the ice area, which is an unmistakable feature of a REALICE ice rink.

This sophisticated system, which can be made up of any combination of **modules, mats and connectors**, is the only innovative modular setup of its kind on the market. It offers endless possibilities for designing ice surfaces: even skateways or ice paths in which the modules are replaced by exposed aluminum tubes running along them.



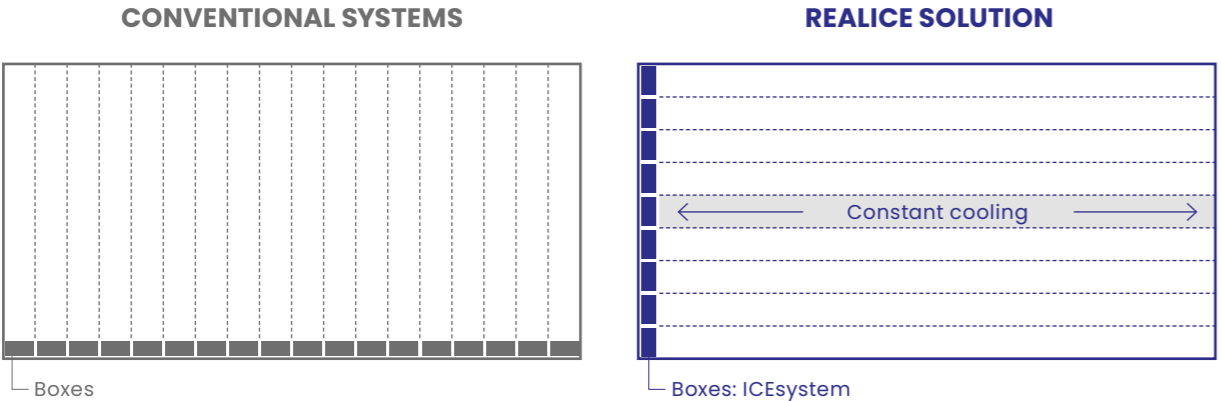
Modular & flexible

Our REALICE technology with its ICESystem is one thing above all else: **flexible and efficient**. The length and shape of ice surfaces can be adapted easily at any time on account of the modular build, and can be installed on any subsurface.

ICEplus® mats also have a unique geometry. REALICE is the only manufacturer in the world to position the boxes on the shorter side of the ice rink without losing quality or energy. On the contrary our system offers:

- **50% less** boxes on average
- Ice rinks **quicker to build and disassemble**
- **25% more** access area and accessible long sides
- Significant **cost and energy savings**

Example: ice hockey rink 30 x 60 m (85 x 200 ft)



WIENER EISTRaum, AUSTRIA: ice adventure world on >10,000 m² (107,000 sf²) with more than 30,000 daily visitors



FLORENCE, ITALY: Ice rink 2,500m² (27,000 sf²) with more than 10,000 daily visitors





HERNE, GERMANY: 400 m (1,300 ft) ice rink / ice stock rink 10 x 25 m (32 x 82 ft) with LED lighting

RICCIONE, ITALY: Ice rink 800 m² (8,600 ft²), right by the sea





From **traditional ice rinks** in city centers to **special solutions** in swimming pools, and much more





A blue-tinted photograph of ice hockey players on an ice rink. The players are wearing full gear, including helmets, jerseys, and skates. They are holding hockey sticks and appear to be in motion. The background is a solid blue color with some faint white lines on the ice.

PERMANENT ICE RINKS

Permanent Ice rinks

Sports facilities come in all shapes and sizes, and REALICE has specialized over the years in planning and installing ice rink solutions that meet the most varied requirements. We generally distinguish between permanent and semi-permanent ice rink solutions, and each of these comes with a range of custom options.

Lowest figures

GLOBAL WARMING POTENTIAL

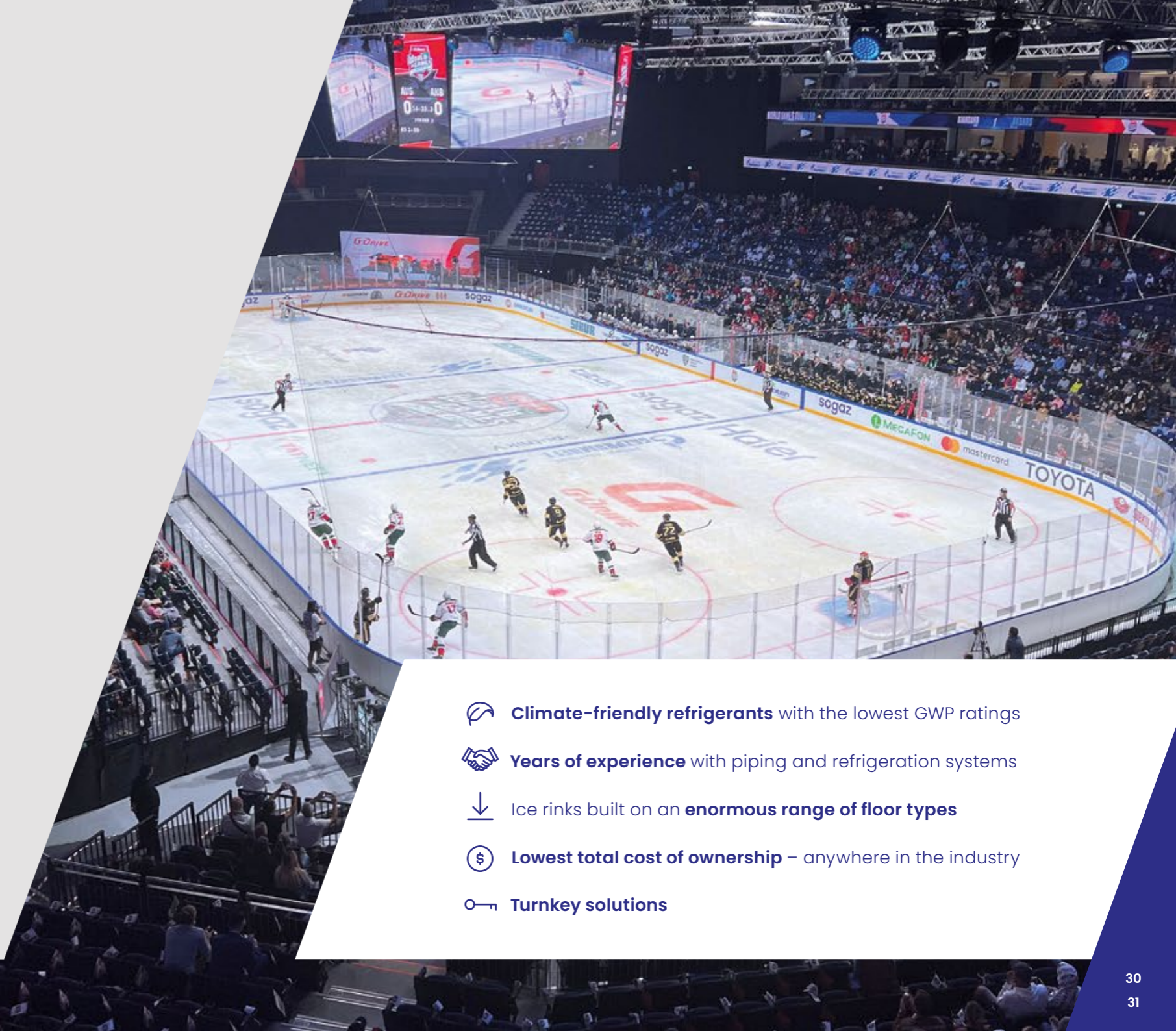
REALICE offers a pioneering combination of natural and ecofriendly refrigerants and high-tech chillers, resulting in the lowest GWP ratings. We use natural refrigerants instead of fluorinated gases. These are perfectly suited to ice rinks and make an important statement about environmental protection and sustainability.






Countless refrigerant gases are used in today's refrigeration technology. These include gases such as NH₃, 1234ze, R454b, R410, R134A, R32. We will gladly advise you in detail about any of them.

Our promise

LOWEST TOTAL COST OF OWNERSHIP

We guarantee our customers the lowest total cost of ownership. Thanks to our expertise around every aspect of refrigeration technology, and especially around refrigerants – **whether conventional refrigerant gases, 1234ze, CO₂, or NH₃** – REALICE can deliver market-beating refrigeration packages in terms of technology, and above all in terms of investment. And that means worldwide.



-  **Climate-friendly refrigerants** with the lowest GWP ratings
-  **Years of experience** with piping and refrigeration systems
-  Ice rinks built on an **enormous range of floor types**
-  **Lowest total cost of ownership** – anywhere in the industry
-  **Turnkey solutions**

Sports facilities/stadiums: Permanent installation

CONCRETE – ASPHALT

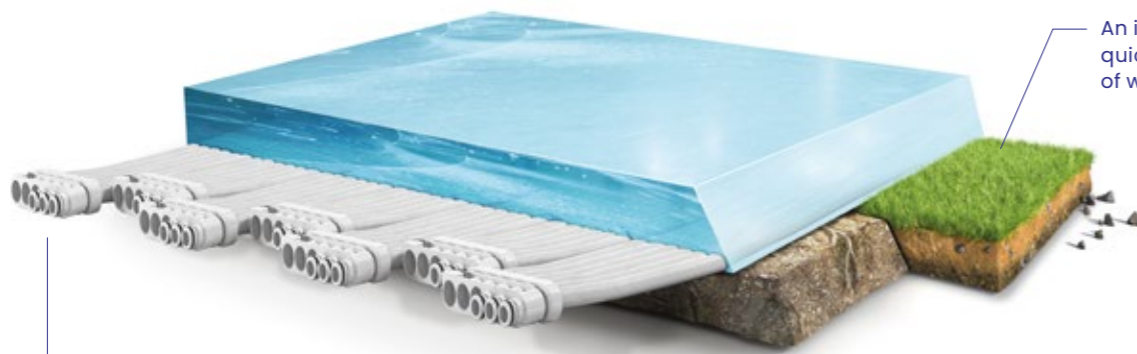
The REALICE refrigeration system is concreted or asphalted into the floor itself. Refrigeration piping is installed by our team and prepared for concrete/asphalt pouring. Our construction method is based on years of experience and has been used in numerous stadiums throughout the world.

Floor structure





Floor structure



An ice rink can be set up quickly and easily, regardless of what is underneath

ICEplus® mats are rolled out onto the surface beneath

Multipurpose facilities: Semi-permanent installation

ASPHALT – CONCRETE – ARTIFICIAL TURF – SAND – AND OTHER SPORTS COVERINGS

When it comes to extending the function of multi-purpose facilities, we offer solutions that can be built on a wide variety of surfaces and used either all year round or temporarily. It's an ideal way to extend a facility to include ice. For example:

- Seasonal skating rinks on small soccer fields and tennis courts
- Installing an ice rink for an event
- Indoors and outdoors

For semi-permanent installations, we position our ICESystems and roll out our ICEplus® mats. We often install the ICESystems permanently, so that only the ICEplus® mats need to be attached and rolled out as required.



“REALICE transformed the largest multi-purpose hall in the Middle East, the Coca-Cola Arena in Dubai, into a spectacular world of ice in just five working days. The Dubai Ice Show was a total success, despite the high temperatures.”

Alexander Atamanenko

General Manager Arena Omsk
Project Manager Dubai Ice Show 2021







“Following the collapse of the Sterzing Ice Stadium, REALICE built a completely new turnkey ice rink for the region in just four months. Exceptional project expertise and outstanding technology!”

Egon Gschnitzer

Sports Manager, Sterzing Ice Stadium, Italy

EYOF 2019 SARAJEVO & EAST SARAJEVO: European Youth Olympic Festival – curling rink
STRAUBING, GERMANY: Complete dasher board installation in the DEL hockey stadium









SYNTHETIC ICE RINKS

Authentic Skating

There are solutions that work all year round without any energy whatsoever and with minimal maintenance – and they still provide an authentic skating experience. Their synthetic ice sheets can be used for the same sports and recreational activities as real ice. Small rinks can be set up indoors or outdoors in just a few hours, and don't even require specialized fitters.



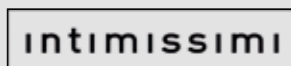
-  Zero energy
-  Minimal maintenance
-  Quick and easy to set up
-  Reversible, self-lubricating plates
-  Ten-year warranty
-  100% recyclable and non-toxic

EVENTS

REALICE is proud that its technology enables some of the most successful events on ice and international sporting fixtures, and makes an important contribution to unforgettable experiences.

WE TREAT YOUR EVENT LIKE OUR EVENT

Take the Coca-Cola Arena in Dubai, for example: we transformed it into a spectacular ice world in just five working days, and we also created ice surfaces in shopping malls, amusement parks, and company premises for a wide variety of events. And live and TV shows worldwide rely on REALICE's expertise as well.



OFFICIAL SUPPLIER

Sporting events require specialist expertise: strict guidelines and specifications that have to be met, technology that ensures conditions remain fair throughout the competition, and total reliability in every area. As an official supplier, REALICE is one of the most dependable partners around.



ALLIANCES

United in our shared passion, we work towards a common goal: making ice sports and ice-based activities even more groundbreaking, efficient, and appealing. That's why REALICE is a member of several prestigious international associations.



ACCESSORIES & TOOLS

Dasher boards

We also offer the right dasher boards for every mobile or permanent ice rink solution. All our solutions offer high durability, strong materials, the best possible protection for users, and concepts for quick assembly and disassembly.

For mobile rinks we offer dasher boards made of materials such as wood and white PE, and even transparent options.

OUR RANGE INCLUDES:

- Double and single hull dasher boards
- Doors for players and spectators
- Double gates (ice resurfacing access)
- Protective facilities for spectators featuring thermally tempered glass
- Player, penalty, and jury booths and benches
- Protection for billboards

IMPACTpro® – PATENTED DASHER BOARD HANDRAIL

The globally patented IMPACTpro® system provides professional impact protection for barricades and absorbs shocks through its unique quality. This soft handrail can significantly reduce hand and head injuries.

- Embedded air chambers absorb shock
- Soft material with rounded edges
- Encloses all three sides of dasher boards
- Can carry advertising
- Custom designs available
- Integrated LED lighting

WWW.LEITNER.IT



Ice care

Technology is one thing. But maintaining ice using the right equipment is quite another. For many years we have been the exclusive importer in Italy for the ice resurfacing machines made by world market leader Zamboni, whose equipment is of the highest quality and reliability. The product range includes models in a wide variety of sizes and drive systems.



Ice skating equipment

We offer all of our accessories for sale and for rent.

REALICE SKATES

Super comfy, appealing designs: our skates have steel blades and are length-adjustable.

PITCH PARTITIONS

Ideal for training sessions and for kids who still play games and train on smaller areas.

SKATE SHARPENING MACHINE

Simple and fully automatic for perfect sharpening.

ICE SKATING AID

Tough PE ice skating aid for children and adults, making learning to skate fun and safe.

ICE STOCK EQUIPMENT

A fun, simple game for young and old.

Intelligent management

ICEmaster®

REALICE can supply you with globally successful ice rink technology. But that is not all. REALICE also provides a digital cockpit called ICEmaster®, which delivers complete data about your ice rink at any time and on any device. Ice temperature, water and energy consumption – everything is possible with the ICEmaster® and can be viewed at the click of a button. And all of its features are of course really user-friendly and intuitive to use.

EVERYTHING IN SIGHT

- Check on correct operation in real time
- Ice surface temperature
- Refrigeration parameters
- Power consumption
- Temperature settings
- Measure the data set (in/out)
- Glycol level and temperature
- Refrigeration system operation
- Weather parameters
- Current outdoor temperature, wind speed, weather forecasts

SAVE MONEY AT THE TOUCH OF A BUTTON

The data, which is transmitted in real time, can be clearly displayed on a desktop computer or any mobile device. This allows you to respond quickly to changes and adjust parameters immediately in order to make best use of potential savings. Data analyses from a number of reference projects have showed power consumption reductions of up to 30%.

FACTS AND FIGURES – BETTER DECISIONS

The ICEmaster® offers complete reporting with detailed evaluations and clearly arranged statistics. Reports can be customized, easily exported, and shared with colleagues. This makes room for optimization, increased performance, and reduced costs.



THINK LONG TERM.
ACT RESPONSIBLY.

Sustainable & efficient

REALICE solutions are used wherever technical demands and environmental responsibility are especially high. Here are some examples of how we are making an important contribution by significantly reducing energy and water consumption.



100% degradable refrigerants

ICEmaster®

The digital cockpit that monitors and controls ice rink energy consumption at the touch of a button.

Green glycol and refrigerant gas

Green, 100% degradable, recyclable glycol is used in all of our projects. We are also one of the first manufacturers to work with refrigerant gas.

ICEplus® cooling mats

40% less energy consumption than conventional EPDM or PE sheets. The calculation models are TNO/TÜV approved and subjected to rigorous laboratory testing. Our ice rinks are also cooled using green energy.

Ecomelt®

In 2020 we developed Ecomelt® – a system that closes the water cycle by intelligently melting, cleaning, and reusing ice removed by ice resurfacing machines.

ISO certifications

- ISO 9001:2015
- ISO 14001:2015 for the environment
- ISO 45001:2018



Financing options & REALICE services

An ice rink as simple as ABC

We offer our clients a range of attractive models for financing, renting, or buying an ice rink and the equipment that goes with it. We have also worked with a university in Innsbruck, Austria, to develop an economic benefit calculator, which helps calculate the numbers in your business model before you go ahead, so that you can get an idea of how financially attractive the ice rink is going to be.

ICEcalculator – calculate your success

Have you already planned the ice rink you want to have? Use our online calculator to design an ice rink at a location of your choice in just a few minutes, then calculate the potential economic benefit as an operator: ice.leitner.it

Rendering service

Using 3D visualization, we convert your technical project drawings into a virtual 3D model. That way you can visualize your project exactly and use it to and start looking for sponsors.



Intercom Dr. Leitner

POWER. PASSION. EXCELLENCE. Since the company's start, Intercom Dr. Leitner has been successfully active in a number of niche markets. In addition to its ice rink division and successful REALICE brand, Intercom Dr. Leitner is also active in All-Terrain vehicles (snowmobiles, ATVs and SSVs, snow blowers) and Road & Airport maintenance (winter maintenance, municipal solutions, de-icing, ground support equipment). The company is based in Freienfeld/Sterzing, in the north of Italy.

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