



# Company Profile

"Making Ice is our business"

# We Are Brema

An Italian story, an international vision

## YESTERDAY

**Since 1985** we have considered ice as an evolution of water, designing it into forms suitable to meet every need.

## TODAY

Continuous creative effort, the search for high product standards, the use of materials of extreme quality and the attention to technological innovation, characterize us today as in the past.

**Doing ice with passion and care is our mission, from the beginning.**

## TOMORROW

We transform challenges into opportunities becoming protagonists of a different economy, attentive to the needs of people, local communities and the surrounding area.

**We wish to contribute with our choices to a more sustainable future.**

We respect the environment and those who live it.

# At a glance

Background, know-how and decades of mastery to guarantee the best quality every day, without compromise.

1

HEADQUARTERS  
Villa Cortese, Milan, Italy

3

PRODUCTION BUILDINGS  
Located inside the Headquarters

120  
COUNTRIES

153

EMPLOYEES  
In 2022

+68k

MACHINES PRODUCED  
In 2022



# Innovative Technology

Constant effort and research, in order to more fully understand and anticipate the developments of the market and produce constantly upgraded product ranges by adding new products year after year.



**9**

DEDICATED  
ENGINEERS



**9**

ACTIVE TECH  
PATENTS

**10**

ACTIVE DESIGN  
PATENTS



**14**

PRODUCT  
CERTIFICATIONS



**500 m<sup>2</sup>**

OF TESTING AND  
DEVELOPMENT AREA



# Be Certified

Ice that gives you confidence thanks to several product certifications guaranteed by International Certification Bodies.



# Be Certified

We take care about your health because Ice is Food



## **REGULATION (EC) No 1935/2004**

EU's framework regulation setting out general requirements for all food contact materials.



## **MOCA**

European community standard which lays down the requirements for food contact materials and objects.

## **ETL Certification**

Designed to help you get products tested, certified, and on to market faster than ever before.



## **NSF/ANSI 51**

Health and sanitation requirements for materials used in the construction of commercial food equipment and based on U.S. FDA regulations.



# Choices that make a difference

Actions inspired by principles of ethics, transparency, care about people, society and environment in every single gesture, project, initiative.





# Be Eco-Active Approach

We want to contribute with our choices to a more eco-sustainable future. Our machines are “designed for the environment”. The latest proof is our work with new refrigeration gases like CO<sub>2</sub> and R290.

We have developed a range of CO<sub>2</sub> ice machines. It is a **natural refrigerant** born as an alternative to freon based refrigerants, which are now **recognized as harmful to our environment**.



It is a propane, **highly refined refrigerant gas that is a safe and environmentally friendly** alternative for Hydrofluorocarbon (HFC) refrigerants.

This legislation bans the placing on the EU market of **new electrical and electronic equipment containing more than agreed levels** of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.



**All our products**, from concept through to the finished product, **are manufactured for efficiency**. Efficiency criteria include energy- and water-saving performance ratings and ease of cleaning and maintenance.

# F-Gas Roadmap

Summary of F-Gas Regulations | Key Dates

2015

➤ **HFCs with GWPs of 150 or more**  
Applies to domestic refrigerators and freezers

2020

➤ **HFCs with GWPs of 2500 and over**  
Applies to hermetically sealed commercial refrigerators and freezers



**HFCs with GWPs of 2500 or more**  
Applies to stationary refrigeration equipment or it's associated remote plant *Equipment operating at below -50 deg. C is exempt*



**HFCs with GWPs of 150 or more**  
Applies to portable air conditioning appliances

2022

➤ **HFCs with GWPs of 150 and over**  
Applies to hermetically sealed commercial refrigerators and freezers



**HFCs with GWPs of 150 and over**  
Applies to commercial refrigerators central plant with a capacity of 40kW or more that contain or are dependent upon for their operation



**HFCs with GWPs of 150 or more**  
Except where used in the primary refrigerant circuit of cascade systems

2025

➤ Applies to single split air-conditioning with less than 3kg charge of  
**HFCs with GWPs of 750 or more**

2030

➤ **Recycled HFCs with GWPs of 2500 or more**  
Used in the maintenance or servicing of existing refrigeration equipment.



**Reclaimed HFCs with GWPs of 2500 or more**  
Used for the maintenance or servicing of existing refrigeration equipment – provided they are labelled appropriately



**HFCs with GWPs of 2500 or more**  
Applies to equipment with a charge of 40 tonnes CO2 or above. Equipment operating at below -50 deg. C or military applications are exempt

# Focus on R290

Zero ozone depletion potential, very low global warming potential (<20)\*  
Excellent thermodynamic properties leading to high energy efficiency

We have committed ourselves  
to the responsible use of natural resources, the development of clean technologies and  
the replacement of harmful substances with eco friendly alternatives.



# Focus on R744

Excellent heat transfer properties and its high volumetric cooling capacity

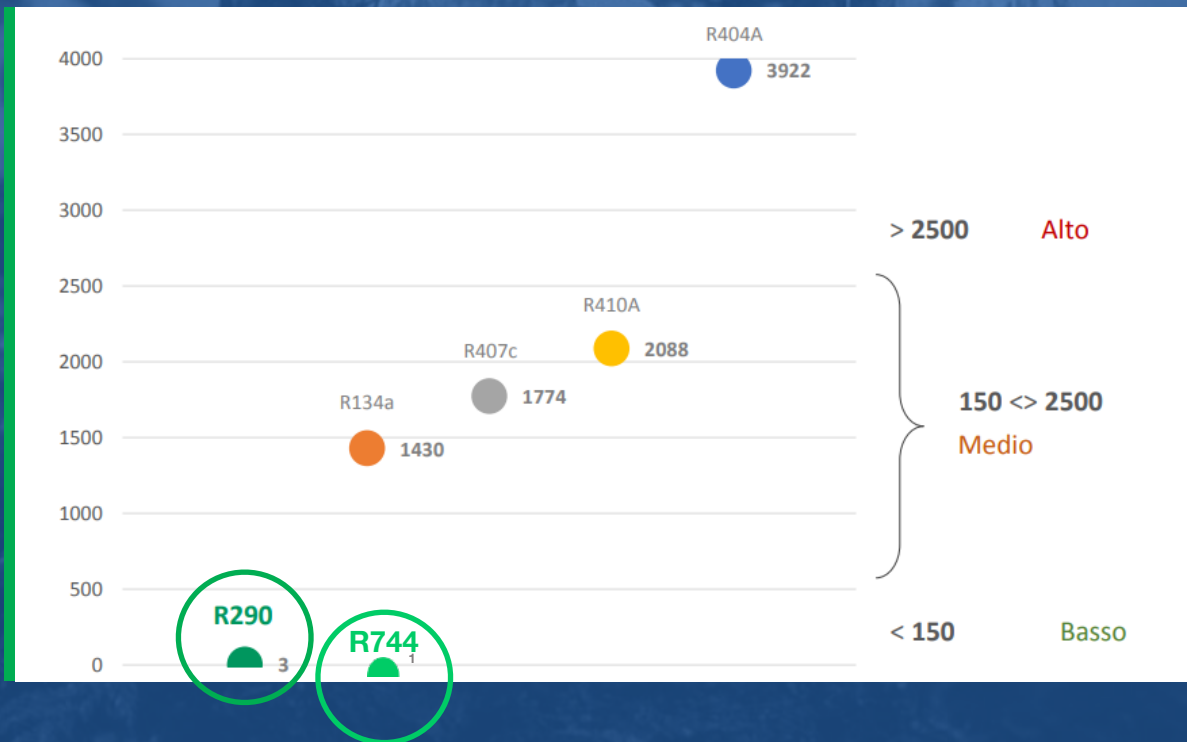
Non-toxic | Non-flammable | Non-ozone-depleting

Environmentally friendly, with a Global Warming Potential = 1

**Thinking about the future today – our products are not only always state-of-the-art,  
but are also designed for the requirements of tomorrow.**

# No pain using propane and CO<sub>2</sub>

Low environmental impact and excellent thermodynamic performance.  
It is non-toxic with zero ODP (Ozone Depletion Potential) and very low GWP (Global Warming Potential).



## What is GWP and why is it important?

It allows comparisons of the amount of energy the emissions of 1 ton of a gas will absorb over a given time period, usually a 100-year averaging time, compared with the emissions of 1 ton of CO<sub>2</sub>.



# Ice for every needs

Every ice type serves a particular purpose.

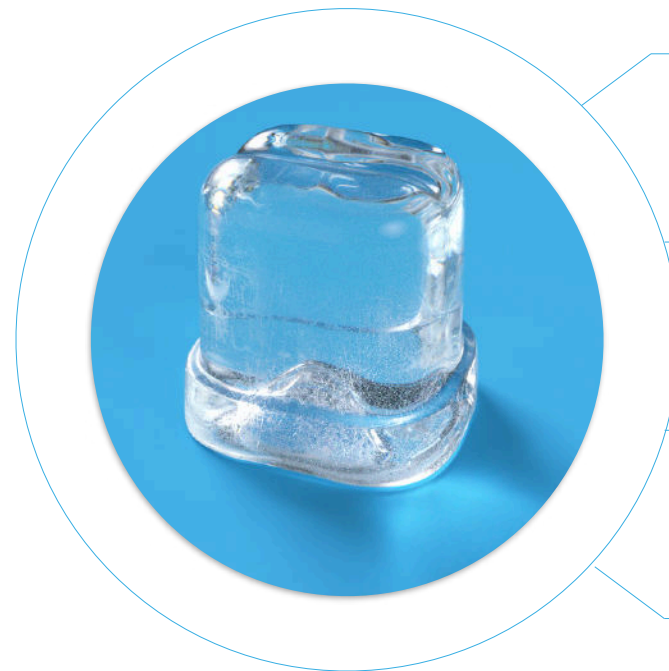
Some are made with the intention of cooling drinks, while others are produced for chewing or even product display. Their varying characteristics make one more suitable for a certain task over another.







## Ice Cube | Single cube, compact and crystalline



It is appreciated for the **elegant look** and for its high performance



It can be ordered in different sizes and weights: **13, 18, 33, 42 and 63 grams**



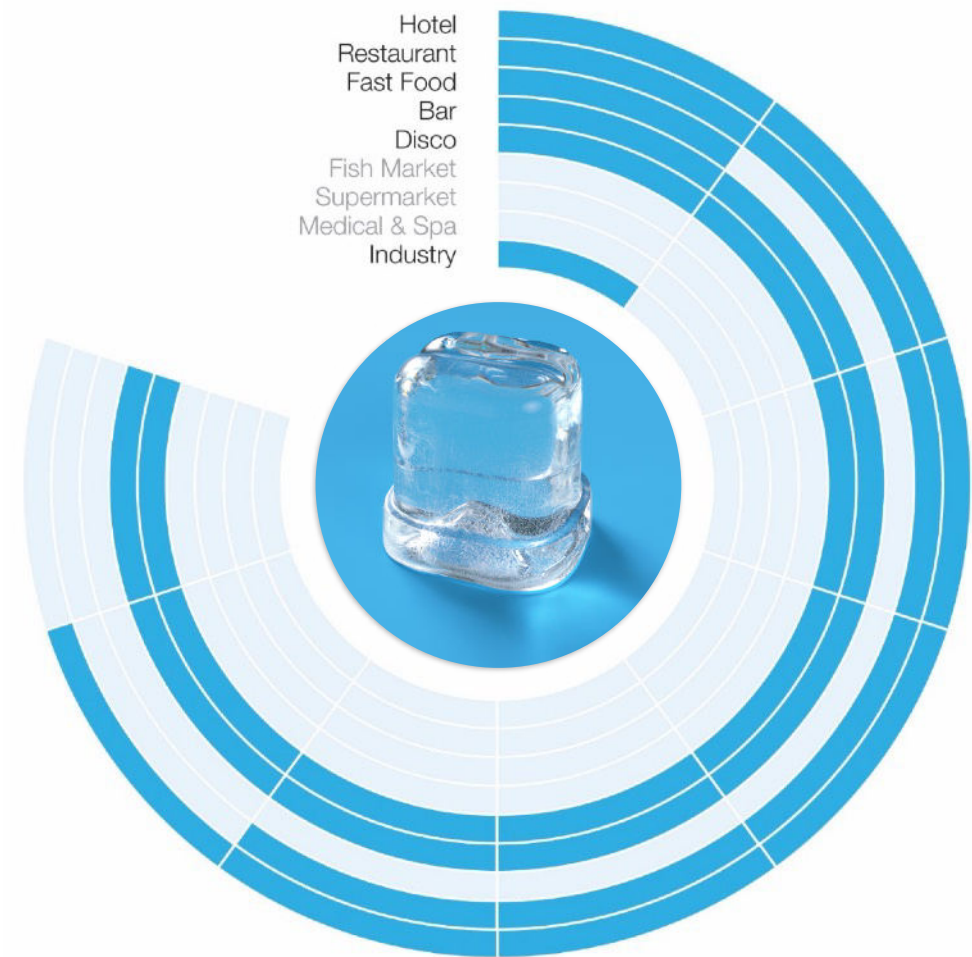
The truncated cone shape with slightly crushed sides make them **suitable for all types of glasses.**



We offer a **wide range of machines**, from the smallest self-contained and units to modular units for large daily productions.









# Spray System Technology

**The purest water forms ice by being sprayed onto a horizontal evaporator while the mineral rich water returns to the internal tank and is subsequently removed at the end of the production cycle.**

The metal Sprayers are easily removable with large water passage in order to avoid the problems caused by the limestone present in the water network.

Assembling and welding of the evaporators with robotic system do guarantee high precision and accurate execution.

The cabinet is fully foamed in order to assure excellent insulation and great storage quality, avoiding energy waste, and external condensation.





**B-Qube** | Elegant, compact, dry and tasteless



**Trendy look and feel** for glamour drink preparations.



Standard size and weight **23 grams**.  
The best solution for all needs.



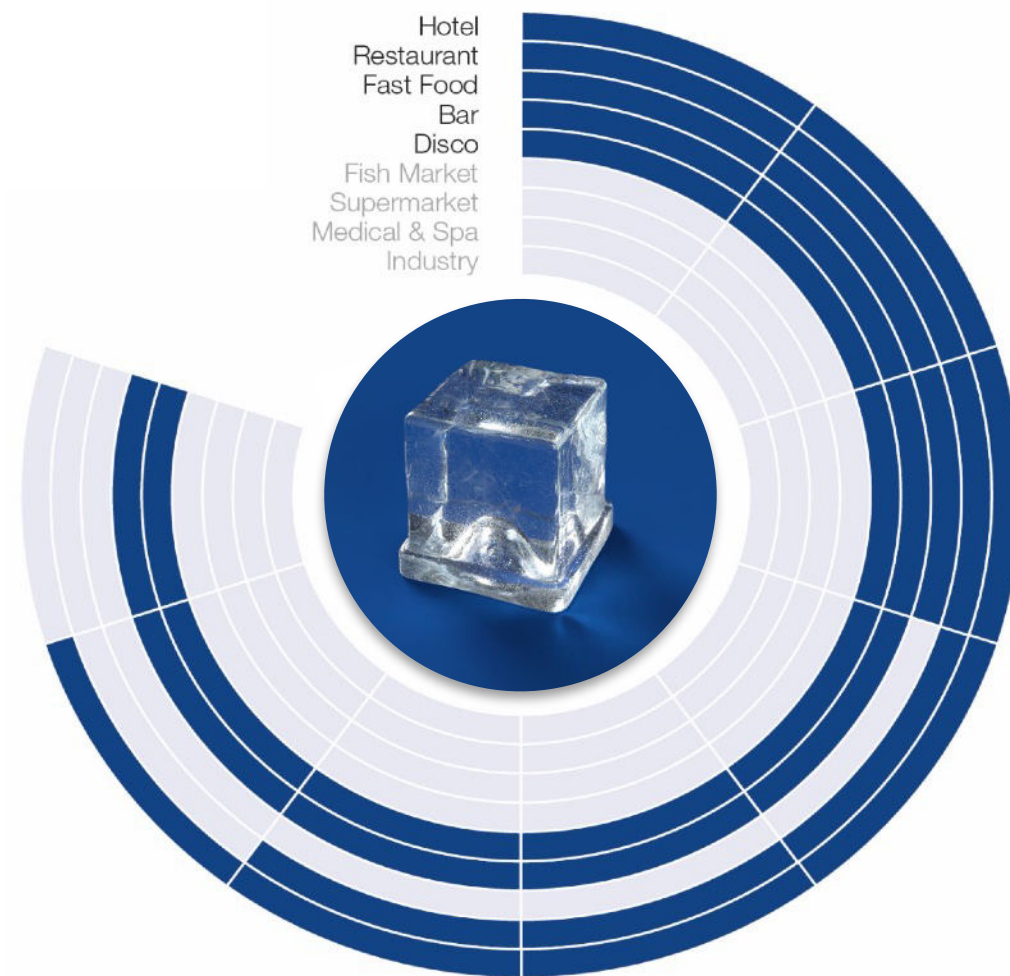
**Not the ordinary shape.**  
We put the cube on a stand.



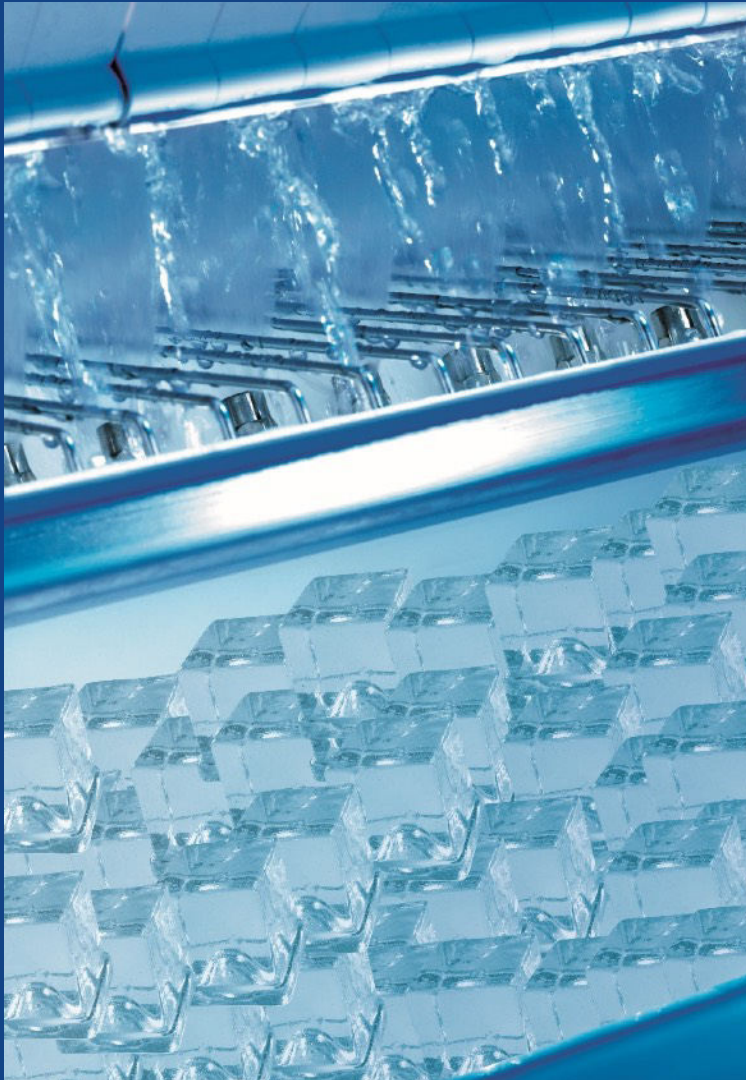
**NSF Certification.**  
Projected by Brema R&D Centre  
with the new R290 natural gas.











# Spray System Technology

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## Fast Ice | Single vertical cube



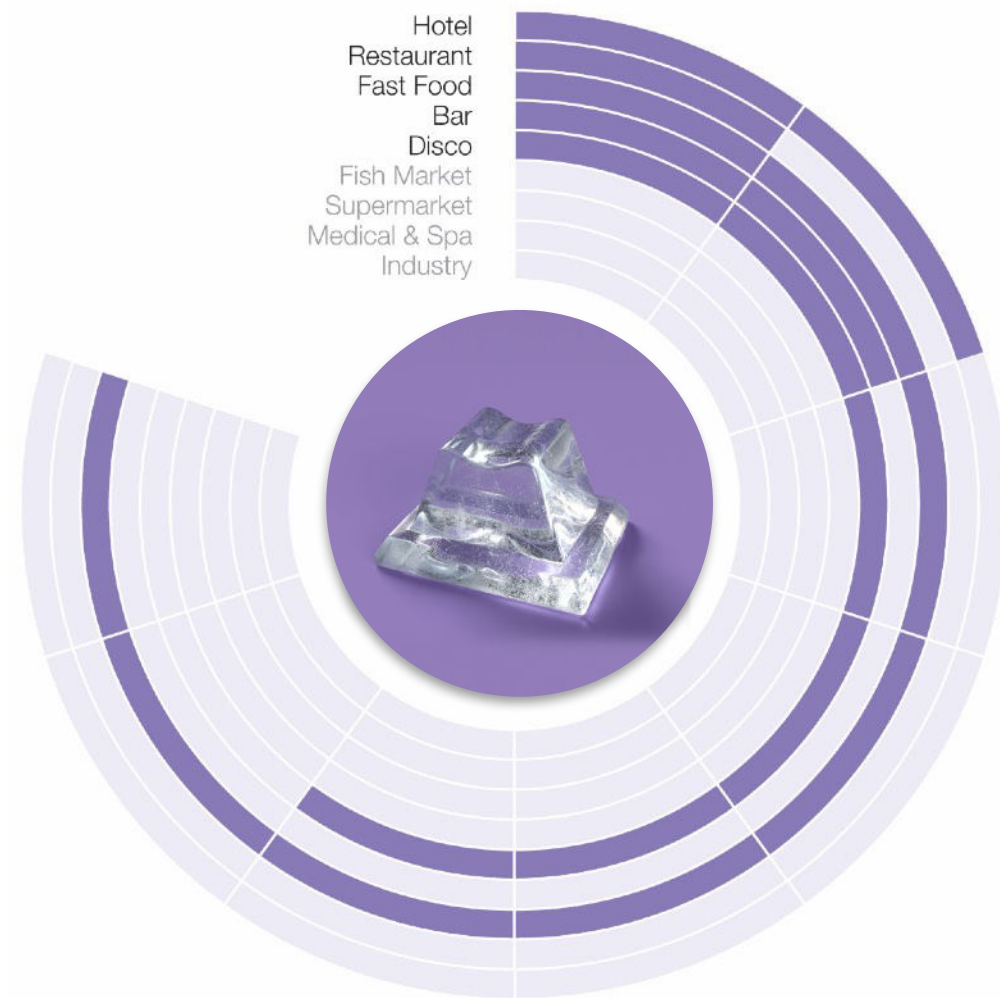
Fresh, light cubes with a **truncated pyramid shape** and many facets that help cold to the drink



Only **7 gr.** to make your drink nice and cold









# Fast Ice Technology

**This ice is formed on a vertical evaporator, similar to a mould for chocolates, which guarantees large production quantities in a short time. The cubes fall individually into the collection bin, perfectly separated and with the consistent size, ensuring good dosage.**

Evaporator PAM treatment: patented procedure that provides a surface coating extremely durable and reliable. Moreover doesn't release metals and in particular nickel.

The materials used are suitable for food contact and allow thorough cleaning and sanitizing. Thanks to high-performance condenser, our machines operate at high temperature





## Ice Finger | A touch of freshness



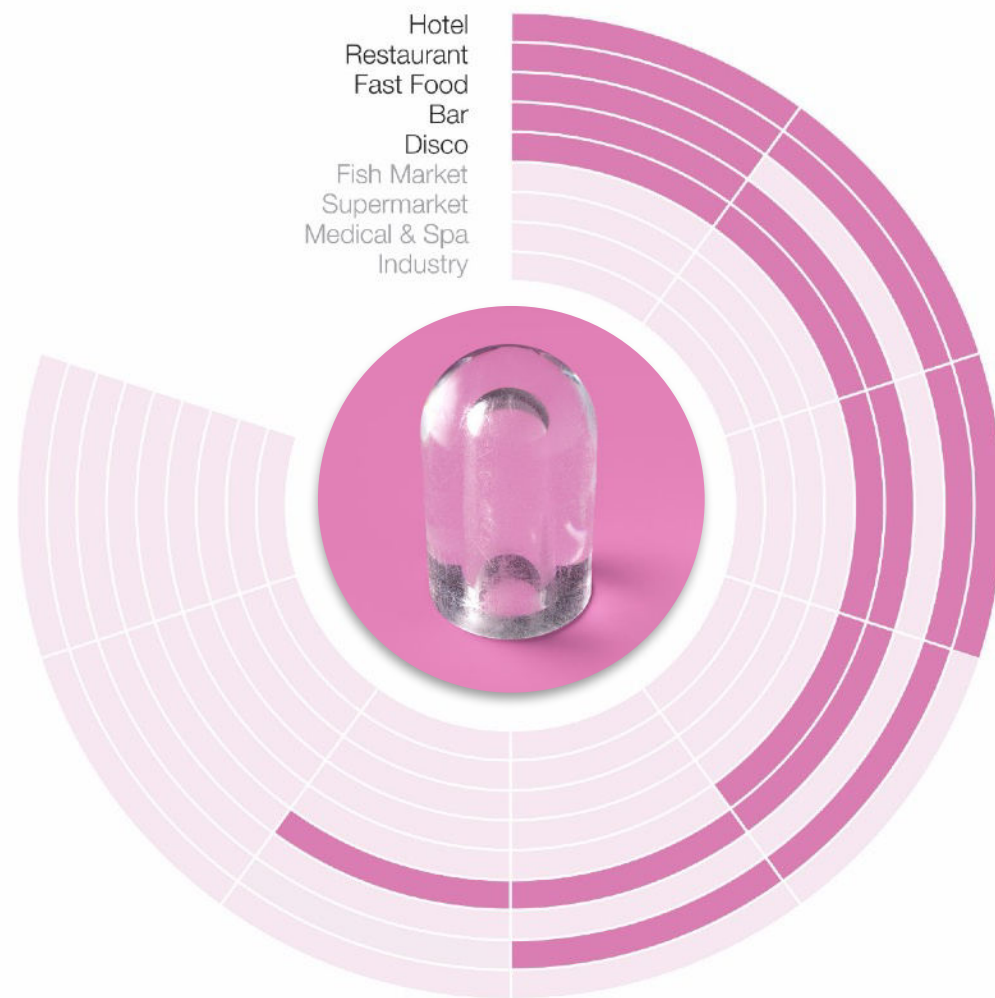
This cube, with the original thimble shape, **cools drinks quickly** because of its large surface area



Due to the immersion production system, this ice is **particularly suitable in case of hard water**









# Ice Finger Technology

**The Ice Finger is formed by immersing sub-cooled metal stalks into a tray of water.**

The pressure switch controls the exact water level where the stalks are immersed. With the paddle (Stainless steel 18/8), this system can guarantee an optimal ice size.

Automatic folding system for the basin: the rocker patented system will protect the gear motor.

Nikel treatment with high phosphorus can ensure a surface coating extremely durable and reliable.





## Ice Pebbles | The multiuse “micro-cube”



This is the eclectic **ice of the future** and undisputed star of our products

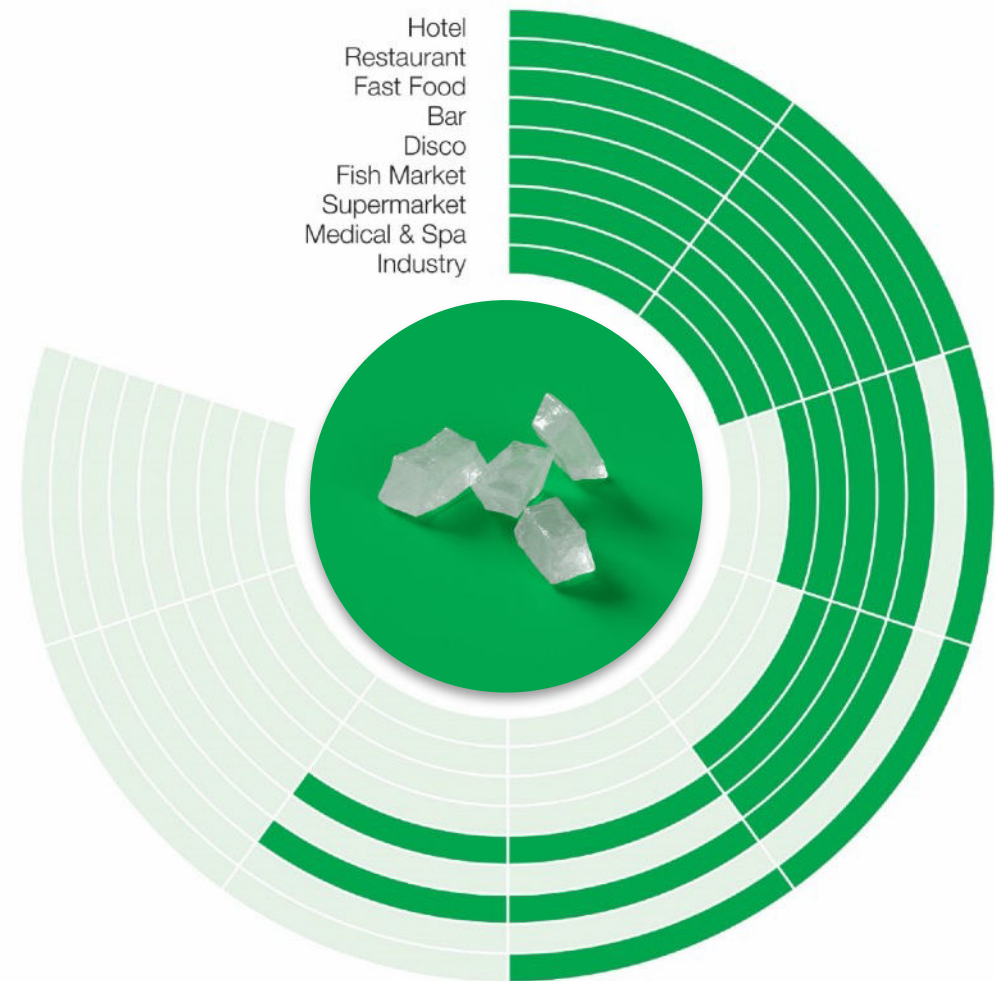


A micro-cube is the meeting point between the cube and the classic flake ice; **particularly versatile and suitable for many uses**



Due to its shape and fast cooling ability, it is **ideal for cocktails as well as seafood** and buffet presentation









# Pebbles Technology

**The combined action of an auger and an extruder allows continuous production in a stable cycle. The reliability of the components ensures low operating costs and high efficiency ice production.**

The stainless-steel auger with the thrust bearings makes the system extremely reliable and requires little maintenance.

The rotation speed control of the screw is detected directly on its shaft by electronic sensor that prevents the occurrence of events and faults.

The water regulation system has been designed in order to avoid any contamination by limestone deposit.

Complete insulation of the bin in order to maintain a longer ice-life, avoiding waste of energy.



## Ice Flakes | Flexible and decorative ice



Flakes are the real champions for the **food presentation**



The main features are **its temperature just below 0°C** and its malleability, which allows for creativity in display design



It is used in the retail, Ho.Re.Ca., wellness, sports, medical, meat and fish sectors







# Granular System Technology

**The combination of an auger and an ice-breaker generates grains with irregular shape. The simplicity of the production process allows low operating costs.**

All components of the evaporator are in AISI 304 for maximum longevity.

The rotation speed control of the screw is detected directly on its shaft by electronic sensor that prevents the occurrence of events and faults.

The water regulation system has been designed in order to avoid any contamination by limestone deposit. Complete insulation of the bin in order to keep the ice longer, avoiding waste of energy.



## Ice Scales | Long term conservation



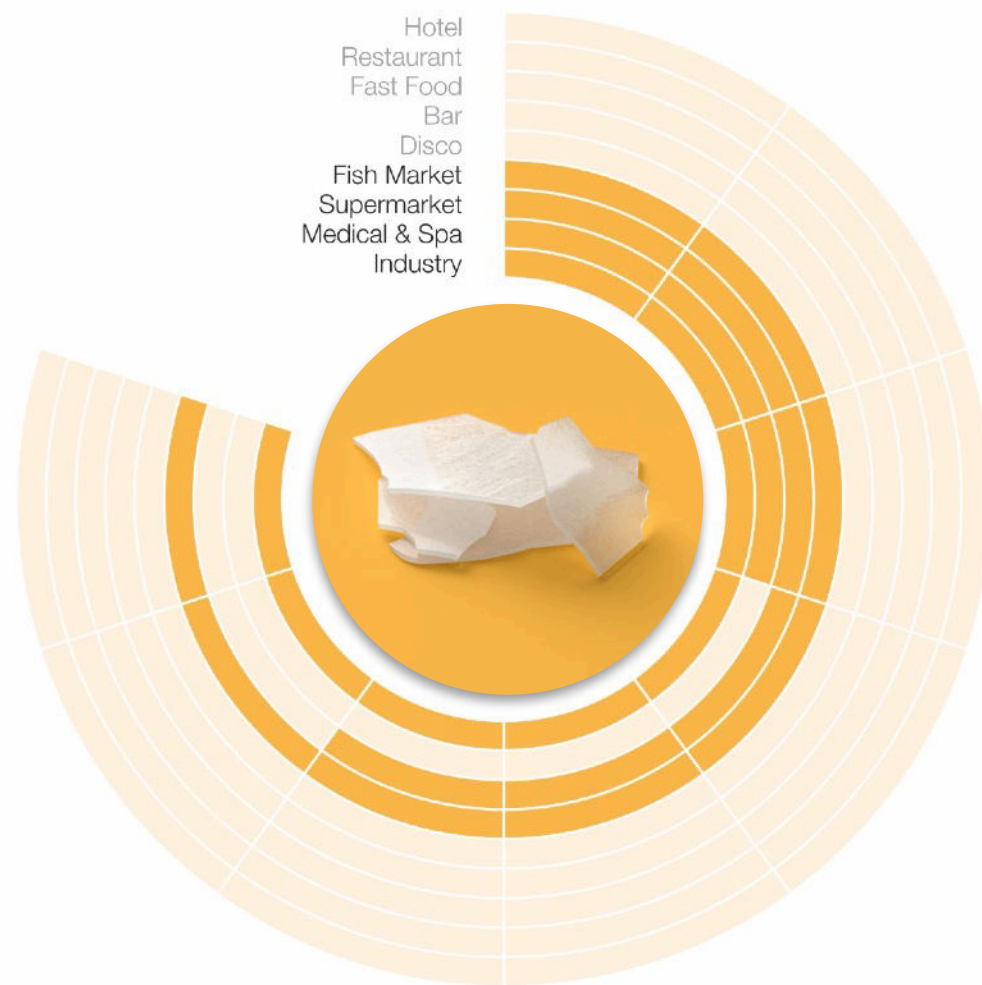
Defined by high cooling power, their temperatures change **from -5°C to -10°C** and thickness range from **1.5 mm to 3 mm**

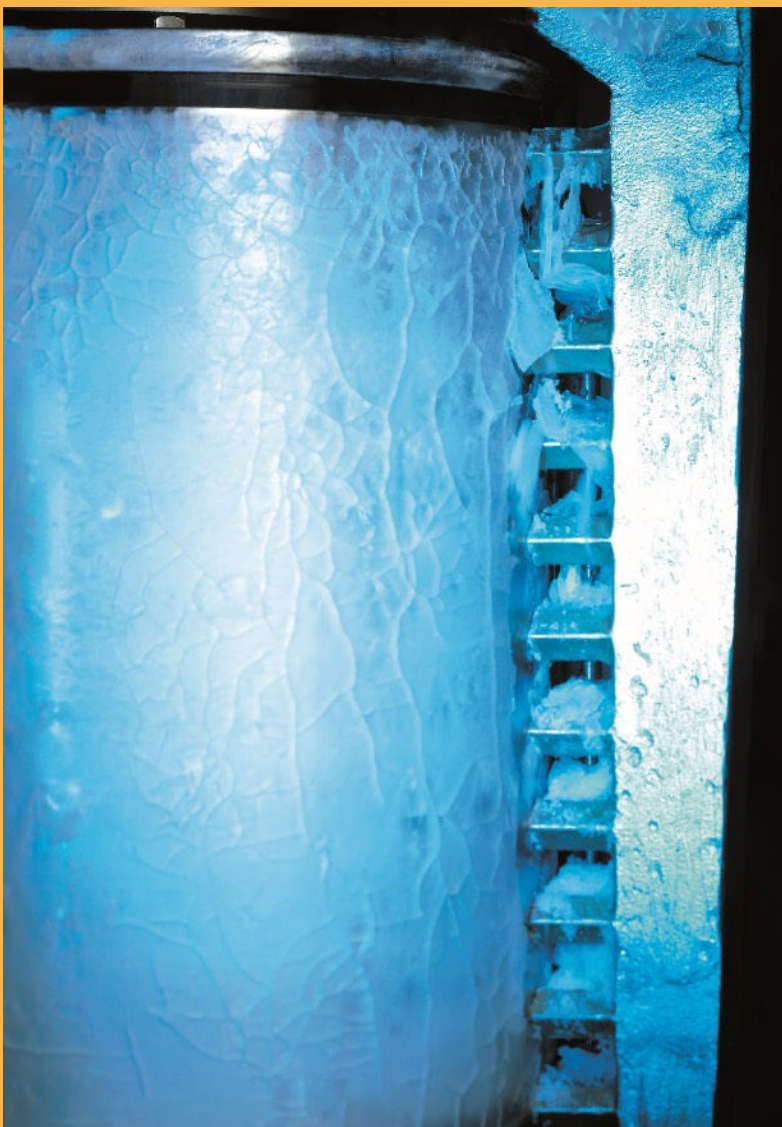


It is a particularly cold ice **developed for specific applications** like the fishing, chemical, construction, dairy, and meat processing industries









# Fixed Vertical Evaporator Technology

**Our system is produced with very high-quality materials, a fixed evaporator guarantees the integrity of the circuit, and produces super-cooled and dry ice flakes through a rotating blade.**

The fixed evaporator in vertical position guarantees safety and longevity compare to the other similar system.

The evaporator in AISI 316 or aluminium can guarantee to avoid corrosion allowing the use of our machines on boats which use sea water to make ice.





# THANK YOU

[www.bremaice.it](http://www.bremaice.it)