

 **Hubbard** *systems*

Ice Innovation



Scotsman[®]
Ice Systems



Hubbard Systems, a division of Hubbard Taylor Group (HTG Trading Ltd), are the exclusive distributor of Scotsman Ice Machines in the UK.

For over 50 years Scotsman has been one of the world's leading manufacturers of ice machines and ancillary products. Today the brand offers literally hundreds of model variations, with more machines producing more different types of ice than any other manufacturer.

Hubbard Systems is the UK's leading specialist distributor of ice making equipment and has been associated with Scotsman for over 50 years. Known for its technical expertise and for the professionalism of its pre and after-sales support, Hubbard Systems is the perfect partner for any industry that needs ice.

Scotsman manufactures ice machines for every market and industry, from compact back bar supercubers for hospitality, to huge industrial machines making scale ice for the fishing and food manufacturing sectors.

Why you should choose Hubbard Systems...

- Regional sales managers provide local market expertise
- Dedicated one to one account management from our 'Ice Experts'
- Free consultations, site surveys and installation audits
- Dedicated technical and aftersales support
- Operator training and best practice advice
- Comprehensive UK based stock holding of ice machines, spare parts, water filters and consumables
- Extensive options on installation and on-site warranties

Why you should choose a Scotsman Ice Machine...

- Scotsman is the world's No.1 ice machine manufacturer with over 1.5 Million machines installed worldwide
- Distributors in 100+ countries throughout the world
- Widest range of different ice varieties with production capacities to suit any application
- EcoX series of machines are fully compliant with the 2022 changes to the F-Gas regulations
- Continual research and development by the factory ensure Scotsman equipment remains a leader in the ice production market
- Long life cycle delivering great value with industry leading warranty provision



Contents



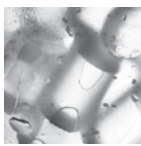
Gourmet Supercube

06-07



Dice Ice

08-09



Nugget & Cubelet Ice

10-11



Flake & Superflake

12-13



Scale Ice

14-15



Other Products & Accessories

16

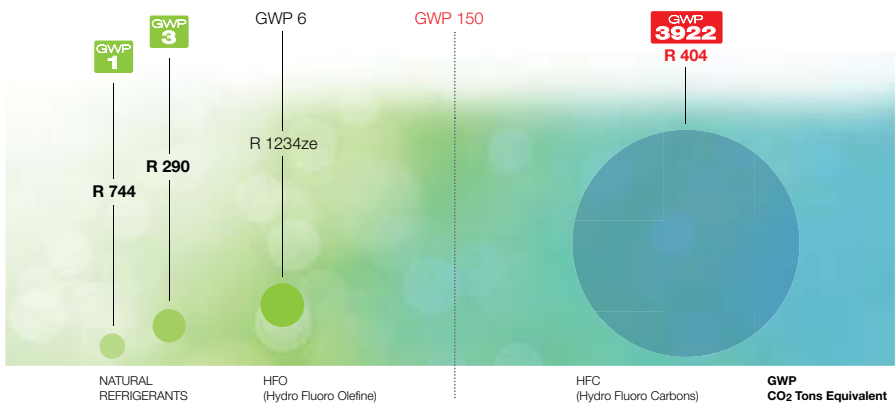
The F Gas Regulation

The United Kingdom and European Union are committed to taking strong action to reduce the impact of climate change.

The F Gas Regulation (517/2014) Directive, which will be fully implemented by 2022, aims to ban the use of harmful refrigerants with a high GWP (Global Warming Potential).

The F Gas Regulation relates to two major worldwide protocols on climate change: the Montreal Protocol, covering Ozone Depletion Concerns and the Kyoto Protocol, covering Global Warming Concerns.

By 2022, only refrigerants with a GWP of 150 or less will be legal to use within the UK and EU.



GWP is a measure of the Global warming Potential expressed in CO₂ Tons Equivalent.



Scotsman EcoX Range

Scotsman is engaged in an important project to develop a new range of icemakers using only natural refrigerants.

Fully compliant with the F Gas Regulation and almost ZERO Ozone Depletion Potential and Global Warming Potential. Natural refrigerants are known as the 'Gentle Five'. They are naturally occurring, non-synthetic substances that can be used as cooling agents. They are hydrocarbons, carbon dioxide, ammonia, water and air.

The new Scotsman EcoX range will use only the following natural refrigerants:

- Hydrocarbons R 290 (Propane)
- Carbon Dioxide R 744

There are currently over 25 models within the EcoX range covering all of the different varieties of ice offered by Scotsman. Continual development will see the number of EcoX models increase significantly.



Gourmet Supercube

For Scotch on the rocks or a perfect G&T you'll want the best-looking ice with the slowest melt rate and that has to be the Gourmet Supercube.

The clarity of Supercubes makes them the perfect choice for drinks presentation whilst their purity ensures that they melt slowly. The unique 'thimble' shape means that these cubes are less prone to sticking together in the ice bucket as well as being easier to handle than the more traditional square cube.

If you need crushed ice then partner your Supercube ice machine with the Scotsman Crushman – it crushes a kilo of ice cubes in seconds. For guest self-serve applications, the Scotsman DXG35 makes great ice quickly and quietly, ideal for hotels.

Made in the famous Scotsman thimble shape, Supercubes are available in four different sizes.



SMALL GOURMET

8 g / Ø 21 mm / H 25 mm



MEDIUM GOURMET

20 g / Ø 30 mm / H 34 mm



LARGE GOURMET

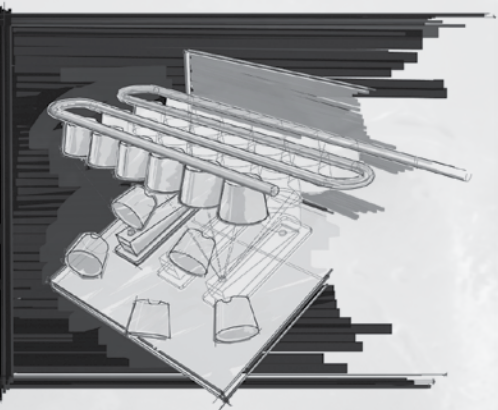
39 g / Ø 38 mm / H 41 mm



EXTRA LARGE GOURMET

60 g / Ø 44 mm / H 46 mm





Horizontal ice evaporator and spray-system technology

Supercubes are made by spraying water upwards into a super cooled inverted mould. Inverting the mould ensures that any sediment or impurities in the water are removed by gravity, leaving only pure water to form the cube making these cubes crystal clear and very hard.

AC Series EcoX

Compact, undercounter Supercube machines

- Ice production capacities from 25kg to 150kg every 24hrs.
- Agion technology resists the growth of microbes and the development of unpleasant odours.
- Electronic control: ambient air and water temperatures may change throughout the year, but your ice machines production will stay the same.
- Clean alert advises with a blinking light when it's time to clean the air filter.



EC Series EcoX

Self-contained machine with Progressive Water Discharge (PWD)

- Ice production capacities from 25kg to 145kg every 24hrs.
- Built-in PWD systems can pump drain water up to 15 meters from the machine.
- Front access condenser air filter: a do-it-yourself cleaning operation that saves time and money and makes your ice machine live longer.
- Scale accumulation preventing system traps the ice machines number one enemy in one place and makes it harmless.



MXG Series EcoX

Modular Supercube ice machines

- Ice production capacities from 152kg to 400kg every 24hrs.
- Multiple storage bin options from 129kg to 431kg.
- Front access condenser air filter: a do-it-yourself cleaning operation that saves time and money and makes your ice machine live longer.
- Available in standard or EcoX configurations using natural R290 Propane refrigerants.



SuperCubes are ideal for...

Bars, restaurants, clubs and hotels looking to serve premium drinks which require ice with an attractive appearance and slow melt rate.

Dice Ice

The classic six-sided cube. The shape of dice ice cubes provide great liquid displacement making this type of ice cube ideal for general purpose cooling of drinks. They can be made very quickly and are ideal for operators that need high volumes of ice, such as fast food outlets and casual dining restaurants.

The 'softer' texture of dice ice makes it the ideal ice choice for smoothies, iced coffees and frozen blended cocktails as it smashes quickly without putting excessive strain on blender bearings.

Dice ice is a great general-purpose ice cube used throughout the hospitality industry, dice ice cubes are available in three different sizes; half dice, dice and large dice ideal for any application.



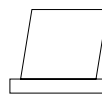
HALF DICE

6g / W 10 mm / D 22 mm / H 28 mm



DICE

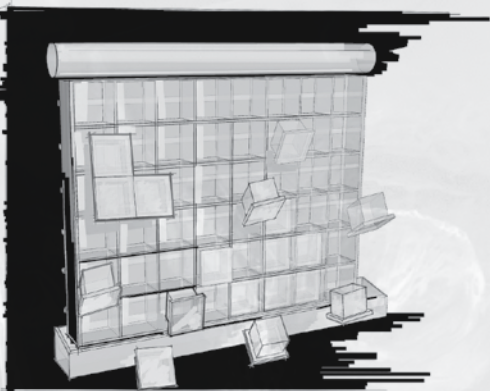
10 g / W 22 mm / D 22 mm / H 22 mm



LARGE

15 g / W 28 mm / D 22 mm / H 28 mm





Vertical ice evaporator

Water is poured over the surface of a vertical evaporator grid plate with each cube forming in a cell on the grid. The ice creates a slab which resembles the classic shape of a chocolate bar which breaks into individual cubes as it makes contact with the bin after it falls from the evaporator. This is the most cost-efficient system where ice production volume is the prime importance.

NU Series

Self-contained, undercounter dice ice machines

- Ice production capacities from 60kg to 142kg every 24 hours.
- Front-in & front-out air flow, no need to leave space on the back.
- Front access condenser air filter: a do-it-yourself cleaning operation that saves time and money and makes your ice machine live longer.
- Ergonomic access to ice with sliding disappearing door: one touch door lift, makes the operators life significantly easier.



NW Series EcoX

Modular dice ice machines

- Ice production capacities from 160kg to 660kg every 24 hours.
- Multiple storage bin options from 129kg to 812kg.
- One touch cleaning: reduces labour costs, saves time and simplifies the cleaning process.
- Front evaporator access: immediate access to the evaporating plate for quick self-maintenance operations.
- Available in standard or EcoX configurations using natural R290 Propane refrigerants.



Dice ice is ideal for...

Cafes, coffee shops, bars and restaurants which require large volumes of ice or serve blended drinks as a key part of their offering.



Nugget & Cubelet

Nugget ice 'cubes' are incredibly versatile and, being made of compacted flake ice, are very fast to produce and in large volumes. Nugget ice is fast becoming the 'standard' cube for a wide variety of operators who have multiple uses for their ice.

Cubelet ice – *The chewable one!* Soft, chewable and a time-tested favourite for all types of beverages. Fast to produce with high displacement make it perfect for self-service applications.

The small compact Nuggets and Cubelets are ideal for chilling soft drinks in 'bottomless drinks' applications as they displace more liquid than cubed ice, lowering syrup costs per cup, improving margins.

Alongside high-volume nugget and cubelet ice makers, Scotsman offers a variety of cubelet ice dispensers, such as the DXN series, which combines a compact footprint with high production rates.



NUGGET

1 g / Ø 11 mm / H 13 mm
Residual water content 8%



CUBELET

1 g / W 16 mm / D 15 x 7-8 mm
Residual water content 8%



Vertical ice evaporator

Nugget and Cubelet ice are made from flaked ice which is produced at a temperature just below zero degrees Celsius. The flaked ice is then compressed to remove excess residual water, reducing it to as low as 10% of its original volume. Cubelet ice is compressed flake ice formed into irregular chips whereas Nugget ice is formed into regular cylindrical micro-cubes.

Ice Dispensers

Self-contained Cubelet ice and water dispensers

- Appealing and elegant designs, they can be positioned in any environment both front and back of house.
- Hygienic controls with 'touch-free' operation prevents contact with the ice ensuring maximum food safety.
- Large ice production capability from a free standing, self-contained unit.



AFC/EFC Series

Undercounter, Cubelet ice machines

- Ice production from 85kg to 130kg every 24 hours.
- Built-in Progressive Water Discharge on EFC model can pump drain water up to 15 meters from the machine.
- Agion technology resists the growth of microbes and the development of unpleasant odours.



MFN & N Series

Modular Nugget ice machines

- Ice production from 292kg to 2000kg every 24 hours.
- Range of storage bins from 129Kg to 1068kg for any application.
- Water in / ice out concept (no cycles, zero water wastage): limits to excess energy usage, water and time wastage.



Cubelet ice is ideal for...

Self-service applications in busy bars, restaurants or leisure centres especially when using a DXN dispenser.

Nugget ice is ideal for...

Bars, cafes and quick service restaurants which serve large volumes of syrup post-mix products as the high displacement can reduce product costs.



Flake & Superflake

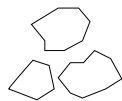
Flake Ice is the most natural shape. Extruded at a temperature just below zero degrees. Flake and Superflake ice have a variety of uses; from chilling drinks in bars, storing and displaying fresh produce or use in the medical and laboratory sectors.

Flake ice is ideal for keeping delicate perishables such as fish chilled, as it's gentle and has quick heat transfer qualities. Scotsman flake machines produce the ice fast. However, flake ice has a high-water content and melts quite quickly.

Ice from a Scotsman Superflake machine is similar to flake but is more compact forming larger flakes which is drier and lasts longer than regular flake ice. Superflake is only available on larger machines, producing from 600kg per day upwards.



FLAKE ICE
Residual water content 25%



SUPERFLAKE ICE
Residual water content 15%





Ice evaporator with a stainless-steel auger

Pure water is frozen to a vertically mounted cylindrical evaporator just below zero degrees which is then scraped by the stainless-steel auger creating flakes of ice with approximately 25% residual water content. Superflake ice is frozen at a slightly lower temperature creating a more compact ice with a lower residual water content of around 15%.

AF Series

Undercounter flaked ice machines

- Ice production from 73kg to 200kg every 24 hours.
- Water in / ice out concept (no cycles, zero water wastage): limits excess energy usage, water and time wastage.
- Ergonomic access to ice with sliding disappearing door: one-touch door lift, makes the operators life significantly easier.



EF Series

Self-contained flaker with Progressive Water Discharge (PWD)

- Ice production from 108kg to 200kg every 24 hours.
- Built-in PWD systems can pump drain water up to 15 meters from the machine.
- Front access condenser air filter: a do-it-yourself cleaning operation that saves time and money and makes your ice machine live longer.



MF Series EcoX

Modular flake & superflake ice machines

- Ice production from 120kg to 2500kg every 24 hours.
- Optional bin capacities from 129Kg to 1068kg depending on application.
- Plug-and-work technology; starts off and constantly produces ice thanks to a no-cycle harvesting system.



Flake ice is ideal for...

Busy bars which serve high volumes of cocktails and chill wine in ice buckets. Food manufacturers, production facilities and supermarkets for the safe preservation or display of fresh foods like fish, shellfish and vegetables.

Flaked ice is also ideal for the medical sector; for the fast cooling of clinical and laboratory equipment, treating sports injuries and physiotherapy applications.

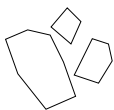


Scale Ice

Scale ice is Scotsman's coldest type of ice. It's made from irregular fragments of ice with a variable thickness that can be adjusted between 1 to 2 mm.

Scale ice is versatile and can mould in to any shape. It melts at a slow and regular rate to keep food at maximum freshness and is usually only used in big commercial applications, such as on trawlers for fish storage or fresh food transportation.

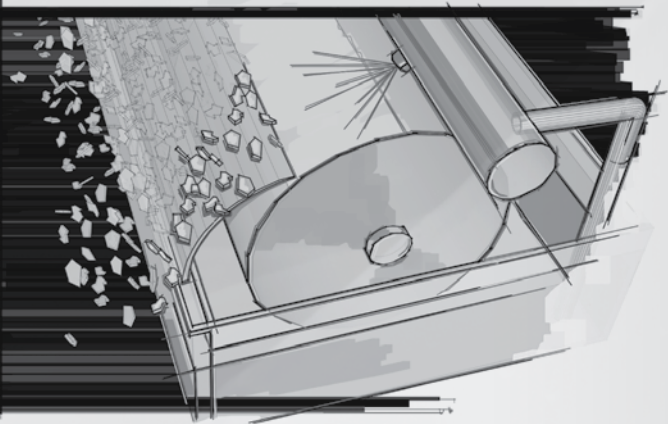
Scotsman offers scale ice systems making ice from either fresh or saltwater, for marine use.



SCALE ICE

Residual water content 2%





Horizontal drum evaporator

Scale ice is formed by spraying water on to a horizontally mounted, supercooled stainless-steel drum at temperatures down to -12°C . The frozen water is then scraped off at a thickness of between 1 to 2mm depending on the application. Scale ice's cold temperature means it has a low residual water content of approximately 2%.

MAR Series

Compact configuration

- Ice production from 400kg to 2450kg every 24 hours.
- Floor standing compatible: delivers ice straight into carts, trolleys or ice boxes. Alternatively, a wide range of ice storage bins are available.
- Compact configuration: includes evaporator, compressor and condensing units, and it is supplied without panels on the group (optional).
- Plug-and-work technology starts off and constantly produces ice thanks to a no-cycle harvesting system.



MAR Split Series EcoX

Modular scale ice machines with remote condensers

- Ice production from 510kg to 2450kg every 24 hours.
- Requires connection to a remote condenser or central refrigeration system.
- Floor standing compatible: delivers ice straight into carts, trolleys or ice boxes. Alternatively, a wide ranges of ice storage bins are available.
- Available in standard or EcoX configurations using natural R744 Carbon Dioxide refrigerants.



Scale ice is ideal for...

Industrial manufacturing processes, for fish and seafood display and perishable goods transportation, as well as to optimise dough temperatures in the bakery sector and other food manufacturing.

Other Products & Accessories

Crushman 360

The Crushman 360 ice crusher from Scotsman can turn the hardest ice types to crushed granules in seconds. It's the perfect machine for bars and restaurants who require crushed ice for food displays or cocktails but in smaller quantities which doesn't justify another unique ice machine. Features include:

- Rugged, it can convert all kinds of cube ice (including hard bagged ice) into different-size granules by means of a simple mechanical adjustment.
- Compact design, only 245mm wide x 430mm deep x 490mm high.
- Safety First – It is fitted with micro-switches both on the lid and on the door.
- Easy to clean with a removable drip tray.



Watercoolers

Scotsman manufacture a range of cold-water coolers ideal for schools, sports centres and institutions looking to reduce their consumption of single use plastic water bottles. Features include:

- Push button or hands-free foot pedal operation.
- SCW14B has a raised spout for filling re-usable water bottles.
- Powerful cooling, can dispense up to 50 litres of chilled water per hour.

Water Filters

Approximately 70% of ice machine equipment failures are water related. Hubbard Systems has partnered with 3M™ Water Filtration to bring you a range of cartridge based water filter systems ideal for ice making equipment. 3M™ water filters reduce chlorine taste and odour, as well as chloramines which can react with metal, plastic and rubber materials causing equipment damage. Scale reduction properties provide equipment protection from hard scale whilst ensuring ice remains as clear as possible. Features include:

- Reduces microbial content in water and protects customers from 99.9% of common pathogens.
- Combined sediment reduction with chlorine, taste and odour reduction for high dirt loading applications.
- Allows fast and easy change-outs with a 1/4 turn while minimising the possibility of leakage and contamination.
- Reduces the ability of calcium and magnesium to precipitate on the evaporator plates as hard scale.



Storage Bins

All modular ice makers will require some form of ice storage bin. Hubbard Systems can offer a wide range of bins from a number of manufacturers in a variety of different sizes and storage capacities.

Scotsman SB/NB & Follett Series – slope fronted, fully insulated ice storage bins with rounded corners designed for daily turnover of ice. Available with capacities from 129 Kg to 478 Kg.

UBH Series – Upright bins with first-in-first-out concept provides a constantly fresh supply of ice with the highest levels of hygiene as ice is drawn from the bottom of the bin. Available with capacities from 553 Kg to 1068 Kg.



Transport Systems

Operators in large industrial or manufacturing applications such as the fishing industry or bakery sector could benefit from an integrated ice transport system. These ergonomically designed systems increase productivity by reducing the unnecessary handling of ice whilst ensuring the highest levels of hygiene are maintained at all times.

SIS & ITS Series – Upright ice storage bins with integral trolleys. First-in-first-out concept ensures correct rotation of ice with minimal handling and the integrated transport trolleys eliminate the need for tiresome shovelling. Available with capacities from 210 Kg to 759 Kg.

Carts & Totes – Scotsman Ice manufacture a variety of ice carts, stands and totes for the efficient handling of ice to compliment any ice making equipment. Manufactured from polyethylene the ice shuttle carts have rounded corners with a manual water drainage system for simple cleaning, and have robust wheels and stainless steel handlebars for easy steering and handling.



Notes:



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