



Flake Ice



Superflake Ice



Scale Ice



Nugget & Cubelet Ice

## Ice Production & Transport Systems

**Food Retail and Industry Segments**



Avoids spoilage  
and dehydration

Ideal with fish...

**Ice:** enhances food freshness and quality, increasing impulse purchases.

#### Fruit & vegetables

- Ice is **effective in preserving** and **displaying** fruit & vegetables at their best.
- Maintains the **perfect temperature needed** for longer shelf life.
- **Guarantees humidity** at the levels needed to prolong freshness and aesthetic appeal.

Delicate food retains its freshness for longer periods.



#### Fresh fish

Fish transport, storage and presentation using **ice is still the most effective solution** for this delicate product. **Refrigerators** that maintain a temperature between -1°C and +2°C, even when using low-dehumidification (static evaporator) technology, **cannot assure the necessary humidity** needed by fish to remain in the best quality condition. **Ice guarantees near 0°C temperature and very high relative humidity, over 90%.** For this reason ice is used throughout the entire fish distribution system: from catch, to transportation, to display counter, **allowing the best quality catch to attract customers and higher retail prices.**

#### Advantages of ice:

- Keeps product fresh longer.
- Enhances presentation and drives impulse purchases at higher retail prices.

#### Deli-counter

- Ice whiteness enhances take-away meal presentation
- **Ice releases humidity**, the essential element needed for food freshness and preservation
- Essential for **refrigerating and moisturising delicate foods** like caviar, oysters, shellfish, and salads, etc.



#### Fruit & vegetable juices; beverages

- Ice chills down and allows bottles and cans to collect moisture in the form of condensation, always the best sign of ideal drinking temperature and the visual stimulus for impulse purchases
- The perfect, appealing display bed for Fruit Juices, Smoothies, Colas and Beers.



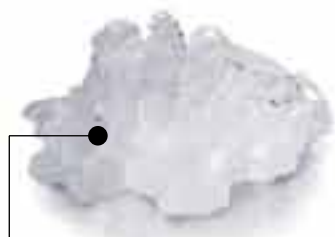
#### Pre-packed ice cube bags

- Ice as a food is becoming **more and more popular for domestic and leisure consumption** over and above traditional commercial usage.
- **Pre-packed ice cubes** are a common sight on display at Convenience Store and Supermarket frozen food counters and reach-in freezers.





# Scotsman: ice with a Purpose!



Flake Ice

Fresh fish  
Fruit & vegetables  
Deli-counters

## Flake Ice

Residual water content 25%

AF-EF-MF-F Series ice machines

Ice in its **most natural form**, made at a temperature just below zero degrees Celsius, contains 25% residual water content, making it very moist. Its flake shape makes it **extremely versatile and very simple to use effectively**.



Superflake Ice

Fresh fish  
Fruit & vegetables  
Deli-counters  
Fruit & vegetable juices and beverages

## Super-Flake Ice

Residual water content 15%

MF Series ice machines

While being another form of Flake ice, Super-flake ice is **more compact** and is extruded just below zero degrees Celsius, retaining only 15-18% of residual water, making it **relatively dryer than Flake ice**. **Super-flake ice lasts longer, releasing moisture over a longer period of time without the need for ice replenishment on the display counter.**



Scale Ice

Fresh fish

## Scale Ice

Residual water content 2%

MAR-ES-EC Series ice machines

Ice scales are **the coldest form of ice**. Formed at -6° to -12° Celsius, they are **very dry** containing less than 2% residual water. Scales look like fragments of glass, have an irregular shape and a thickness that can be adjusted from between 1 to 2 mm. Scale ice **melts slowly**, and is **ideal for large display surfaces such as ice-beds**. Scale ice, rather cold and dry at the time it is formed, will naturally rise to somewhat milder temperatures after the usual storage period in the ice bin, and the moisture content will grow high enough so that it will be possible to use it in direct contact with fish or other displayed foods, for the **longest periods of refrigeration and moisture release**. This makes it suitable for the large display surfaces of both hypermarkets and supermarkets.



Nugget Ice

Fresh fish  
Fruit & vegetable juices and beverages  
Pre-packed ice cube bags

## Nugget Ice from 1 to 5 g

Residual water content 8%

Small = Ø 11 / H 15 mm

Medium = Ø 17 / H 18 mm

N-MFN-NVT Series ice machines

By far the **dryest and hardest form of Flake ice**, it is produced at just below zero degrees Celsius just like all other flake ice forms, but it is then compressed **to remove excess residual water**, reducing it to as low as 10% of its original volume. Nugget Ice is well suited for **long hauls of perishable products**, due to its slow melting nature, and its small, dry and compact granules make it one of the **best adaptable ice forms for many different uses**.



Sturdiness and reliability  
as standard!



# Flake ice machines

## AF SERIES

### Self-contained Flake ice machines

- Advanced diagnostics computerized control.
- Front panel in & out airflow (air-cooled model only) for built-in installation.
- Front access condenser air filter, removable and washable (air cooled version only).
- Easily accessible, front panel mount, ON-OFF Switch.
- Easy, front panel access to technical / service area of the machine.
- Routine Maintenance visible alarm light on front panel.
- Ergonomically designed ice storage access, with disappearing door.
- Door-closing movement dampening system.
- Vapor-based microbial control system pouch in ice storage area.

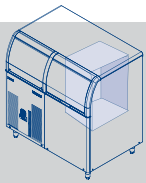


Front On-Off Switch and  
Routine Maintenance Alarm

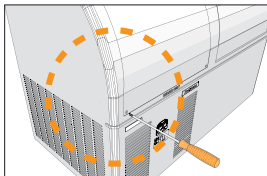
Removable Condenser Air Filter  
with front access for ease of cleaning

Compact and easy to install (plug & play)

Models with self-contained storage bins  
ranging from 105 kg to 200 kg.



Ergonomic access to ice



Easy access to technical area



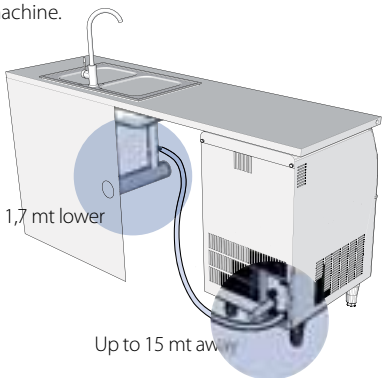
Ready for "built-in" installation

## EF SERIES

Same characteristics as the AF series with  
the option PWD - PROGRESSIVE WATER  
DISCHARGE

**PWD - (Progressive Water Discharge)** is the  
smart, pressurized discharge system that  
will allow you to reach **remote water drains to  
dispose** of the left over water at the end of  
each production cycle, as well as the water  
resulting from the ice melting over time in the  
storage bin.

A non-return valve prevents any potential drain  
water backflush into the system, greatly  
improving the overall hygiene of the ice  
machine.



EF Series can be installed anywhere!



"Yes" to more ice  
"No" to installation costs



AF 103 / EF 103



AF 124 / EF 124



AF 156 / EF 156



AF 206 / EF 206

## Choose your own "Flaker"...

Model	Max daily production in 24h	Storage capacity	Dimensions
AF 103 / EF 103	Ambient temperature 10°C Water temperature 10°C 105 kg	30 kg	59,2 x 62,2 x 100,6 / 112,6 cm
AF 124 / EF 124	120 kg	40 kg	95 x 60,5 x 79,5 / 91,5 cm
AF 156 / EF 156	150 kg	60 kg	95 x 60 x 100,6 / 112,6 cm
AF 206 / EF 206	200 kg	60 kg	95 x 60 x 100,6 / 112,6 cm

## AF / EF Technology

### CFS - Co-Axial Flake-ice System

Static evaporators can't cope with the natural shape of flake ice. The best solution is a vertical, cylindrical evaporator with an auger that extrudes ice flakes through an ice breaker. Scotsman has perfected its solid stainless steel evaporator through years of experience, applying the advanced technology of direct refrigerant expansion to ice production and offering maximum durability and efficiency.

### THC - Total Hygiene Concept

There is no better foodgrade material than stainless steel. Scotsman machines are built with stainless steel frames and side panels, for rust-free durability, ease of cleaning and hygiene. Large and accessible ice storage areas allow for a quick and easy sanitising routine.

### HWC - High Water Content

Ice with a high water content. Recommended for all those applications where delicate and moisture critical products must be preserved.

### Most models

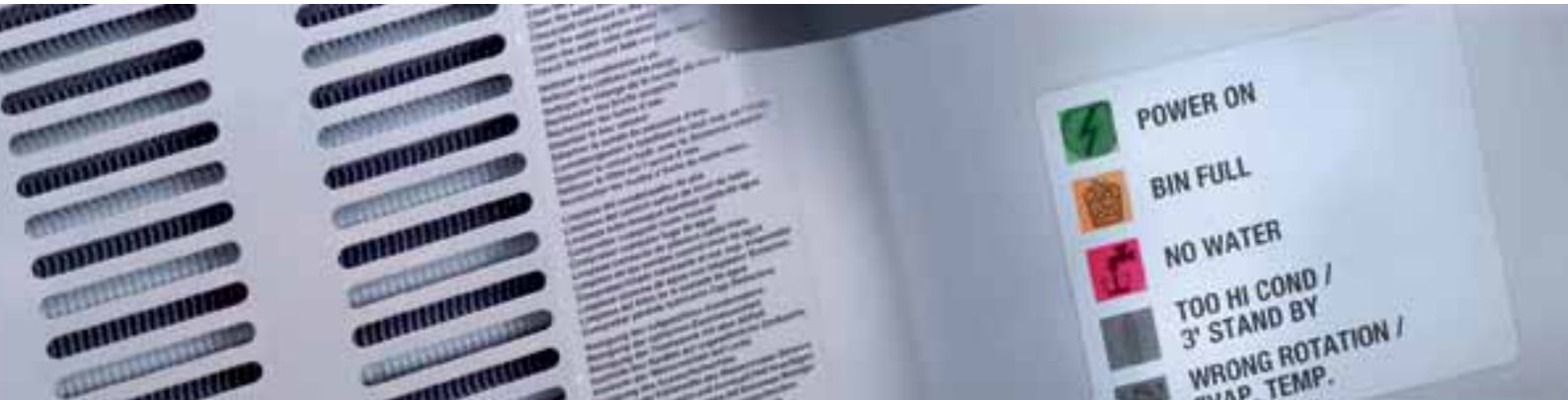
offer bacterial protection control through the usage of AgION<sup>®</sup>, an antibacterial compound that is incorporated during production, into all plastic parts that come in contact with water.

### BIF - Built In Facility

Built in installations are nowadays becoming more common. Ice machines must be designed to fit restricted air flow. Front panel louver for condenser ventilation airflow are a standard feature on Scotsman undercounter models, as well as easy to reach connections and controls for maximised installation flexibility.



Sturdiness and reliability  
as standard!



# Modular Flake ice machines

## MF SERIES

### Modular Flake ice machines

- Stainless steel "scotch-brite" finish, rounded corners for enhanced aesthetics and ergonomics, top cover in ABS plastic.
- Removable side panels on all four sides to aid routine maintenance and servicing.
- Evaporator in stainless steel AISI304 and auger in AISI430, ice breaker in special alloy, self-lubricating gear-reducer, hermetic compressor with choice of air or water-cooled condenser, **electronic control board with self diagnosis and malfunction alarms.**

SIS 300 Storage Ice Shuttle



ABS Plastic Cover



Stainless steel "scotch-brite" finish



Electronic Control Panel



Matching various Storage Bins

## F PRODIGY SERIES

### Prodigy Flake Ice Machine

Equipped with the **advanced self- diagnostic Prodigy technology**, to produce flake ice with efficiency and reliability.  
F Series Scotsman Flake Ice makers feature **AutoAlert indicator lights** that communicate about operating status and signal when it is time to descale, sanitize, and more; **Easy Preventative Maintenance alerts**, readable once removed the front panel, through the **diagnostic code display**, which insures the right fix the first time;  
**Vari-Smart** - available as option, ultrasonic ice level control sensor allows you flexibility to program ice levels, for up to 7 days, keeping just the right amount of freshly made ice in the bin.



Matching various Storage Bins

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### Varismart®

Optional electronic control added to the Smart Board allows for programming of the ice level into the bin for a one week period, ensuring the best quality of ice and a smart use of utilities.



0% 50% 100%



FME 2404 on SB 948 Storage Bin



MF 26



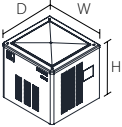
MF 36



F 1222



FME 2404

Choose your own "Modular Flaker"...			
Model	Max daily production in 24h	Dimensions	Matching Storage Bin
MF 26	Ambient temperature 10°C Water temperature 10°C 120 kg	WxDxH 56,4 x 53,6 x 53,1 cm	SB193-SB322-SB393-SB530-SB550-STAND M-SIS300-SIS700
MF 36	200 kg	56,4 x 53,6 x 53,1 cm	SB193-SB322-SB393-SB530-SB550-STAND M-SIS300-SIS700
F 1222	445 kg	55,9 x 61 x 68,6 cm	SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700
FME 2404	1114 kg	116,7 x 61 x 61 cm	SB 948



Medium to high production capacity;  
flexible solutions for specialised installations.



# Modular Super-Flake ice machines

## MF SERIES

### Modular Super-Flake ice machines

- **Electronic control board**
- Ice breaker made in **pecially reinforced alloy**, for greater extrusion pressure and **drier ice**;
- Stainless steel side panels in scotch-brite finish have rounded corners for enhanced ease of cleaning and aesthetics;
- Side panels are removable on all four sides to **ease maintenance and after-sales service operations**;
- ABS plastic top cover;
- Reduced height to **ease installation in tight spaces**.



ABS Plastic Cover



Electronic Control Panel

Scotsman has been at the forefront of the applicability of new refrigerants in ice machines.



### MF 47 - MF 57

**Hydrocarbon series R290 Green Refrigerant**  
Hydrocarbons are well known for their very **low environmental impact**, and have been used in small capacity and reduced refrigerant-charge systems with great success and acceptance. Apart from the obvious "green" aspects of this kind of refrigerants, and of propane (R290) in particular, **low operating pressure and smoother transition between refrigeration and "harvest" operating conditions are the key elements of interest of Propane for refrigeration systems manufacturers.**



### MF 58 Split - MF 59 Split

**Carbon Dioxide Natural Gas - Refrigerant CO2**  
CO<sub>2</sub>, Carbon Dioxide, is as much a "green" refrigerant as Propane. It is present in our atmosphere and is available, reasonably **easily and economically**, from many different sources. Its release in the environment causes no more damage than the natural breathing of a plant during night-time.  
**CO<sub>2</sub> has proven a strong ally for Scotsman, allowing production ratings to be raised as much as 30% vs the same models used with conventional refrigerants!**

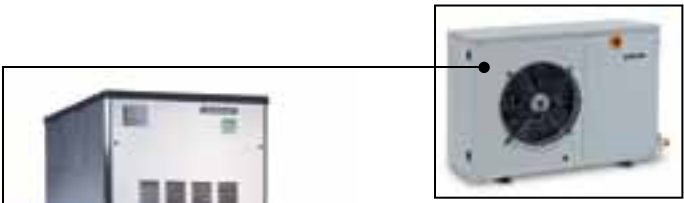


## MF ASR Series

This machine configuration is to be selected for all locations where airflow is restricted, as the refrigerant condenser may be installed remotely vs the ice producing portion of the unit itself, selecting most suitable location for correct condensing temperatures.



Remote condenser



## MF Split Versions Series

Evaporator only, to be connected to Remote Condensing Unit or Central Cooling System (low temperature).  
This machine configuration is to be adopted for all locations where install space is minimal, or as the preferred solution is to connect the ice producing portion of the machine to a central refrigeration condensing unit (eg, such as commonly found in supermarkets).  
The portion of the machine which is detached from the ice making portion is the entire refrigeration system, whereas only the evaporator and the hydraulic system are left within in the portion of the machine that remains in the serving area.



MF 58 Split on SIS 700 Storage Ice Shuttle



MF 46/47



MF 56/57



MF 58 Split/MF 59 Split



MF 68 Split/MF 69 Split



MF 66



MF 86



MF 88 Split

## Choose your own "Modular Super-Flaker"...

Model	Max daily production in 24h	Dimensions	Matching Storage Bin
	Ambient temperature 10°C Water temperature 10°C	WxDxH	
<b>MF 46</b>	330 kg	53,8 x 66,3 x 65 cm	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100 STAND M-SIS300-SIS700
<b>MF 47 R290</b>	330 kg	53,8 x 66,3 x 65 cm	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100 STAND M-SIS300-SIS700
<b>MF 56</b>	600 kg	53,8 x 66,3 x 78,5 cm	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700-SIS1350
<b>MF 57 R290</b>	500 kg	53,8 x 66,3 x 78,5 cm	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700-SIS1350
<b>MF 58 Split</b>	600 kg	53,8 x 66,3 x 79 cm	SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS700-SIS1350
<b>MF 59 CO<sub>2</sub> Split</b>	850 kg	53,8 x 66,3 x 79 cm	SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600-UBH2250 STAND M-SIS700-SIS1350-ITS2250
<b>MF 68 Split</b>	1200 kg	53,8 x 66,3 x 79 cm	SB948-SB1025-UBH1100-UBH1600-UBH2250-STAND M-SIS700 SIS1350-ITS2250
<b>MF 69 CO<sub>2</sub> Split</b>	1900 kg	53,8 x 66,3 x 79 cm	SB948-SB1025-UBH1100-UBH1600-UBH2250-STAND M-SIS700-SIS1350 ITS2250-ITS3250
<b>MF 66</b>	1200 kg	107 x 70 x 85 cm	UBH1100-UBH1600-UBH2250-STAND M-SIS700-SIS1350-ITS2250
<b>MF 86</b>	2500 kg	108 x 78 x 114/126 cm	UBH2250-STAND M-B3200-B4600-SIS1350-ITS2250-ITS2250
<b>MF 88 Split</b>	2500 kg	54 x 78 x 79 114/126 cm	UBH2250-STAND M-B3200-B4600-SIS1350-ITS2250-ITS2250

## MF Technology

**CFS - Co-Axial Flake-ice System**  
Static evaporators can't cope with the natural shape of flake ice. The best solution is a vertical, cylindrical evaporator with an auger that extrudes ice flakes through an ice breaker. Scotsman has perfected its solid stainless steel evaporator through years of experience, applying the advanced technology of direct refrigerant expansion to ice production and offering maximum durability and efficiency.

**THC - Total Hygiene Concept**  
There is no better foodgrade material than stainless steel. Scotsman machines are built with stainless steel frames and side panels, for rust-free durability, ease of cleaning and hygiene. Large and accessible ice storage areas allow for a quick and easy sanitising routine.

**HWC - Low Water Content**  
Recommended for all high volume commercial applications, combining slow-melt with moisture exchange for premium-priced perishables.

**Most models** offer bacterial protection control through the usage of AgION®, an antibacterial compound that is incorporated during production, into all plastic parts that come in contact with water.





High production capacities;  
reduced operation and maintenance costs.



# Scale ice machines - horizontal evaporator

## MAR COMPACT SERIES

- Horizontal **evaporator technology with high component quality**;
- stainless steel structure with scotch-brite finish;
- side panels have rounded corners for enhanced ease of cleaning and aesthetics;
- ice spout with Teflon deflector and ABS moulded cover with inspection window, multiplexable KICMAREXT single and double extension (KICMARDOUBL) available as accessories;
- refrigeration cover side panel protection for when the machine is located in an operator area.



**Ice spout:** ice chute in ABS with Teflon deflector to improve ice flow; food-grade ABS cover with inspection window.  
To assure ice drops into bin or cold room, all ice spout covers may be lengthened using a single spout, 90 cm ice chute extension KICMAREXT, or a double spout 65 cm KICMARDOUBL.

**Cleaning:** in order to improve cleaning and maintenance, the machine has been built with new end walls in Polypropylene high density with inside metal structure, water reservoir in ABS foodsafe easy to be removed; pipe connections to water supply and pump made to ease installation and maintenance.



Gear box protection (hall effect)  
Easy to remove water sump



Pulleys & belt system allows to modify ice thickness

UBH 2250 Upright Storage Ice Bin

**Improved ease-of-cleaning and routine maintenance.**  
The machine is now built with new evaporator support end-walls, made of high density polypropylene with inner metal reinforcement; foodsafe ABS water reservoir, easily removable; quick-connect & disconnect water supply and water pump fittings, made to ease installation and regular maintenance.

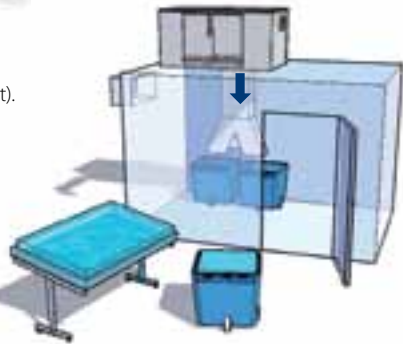


## MAR SPLIT SERIES

Modular Scale ice machine, evaporator only, to be connected to remote condensing unit or central cooling system (LT).  
• Reduced space saving dimensions.  
• Reduced weight to ease transport & installation.



Mar Split installed on Stand M (stainless steel frame) with RBC300 (cart).



## Choose your own horizontal evaporator Scale-Ice machine...

Model	Max daily production in 24h	Dimensions	Matching Ice Storage Bin
<b>MAR 56</b>	Ambient temperature 10°C Water temperature 10°C 426 kg	WxDxH 88 x 62 x 113 cm	UBH1100-UBH1600-STAND M-SIS300-SIS700
<b>MAR 76</b>	570 kg	88 x 62 x 113 cm	UBH1100-UBH1600-STAND M-SIS300-SIS700
<b>MAR 106</b>	785 kg	88 x 62 x 113 cm	UBH1100-UBH1600-STAND M-SIS700-SIS1350
<b>MAR 126</b>	1000 kg	88 x 62 x 113 cm	UBH1100-UBH1600-UBH2250-STAND M-SIS700-SIS1350-ITS2250
<b>MAR 206</b>	1700 kg	133 x 85 x 113 cm	UBH2250-B3200-SIS1350-ITS2250-ITS3250
<b>MAR 306</b>	2350 kg	133 x 85 x 113 cm	UBH2250-B3200-B4600-SIS1350-ITS2250-ITS3250
<b>MAR 78 Split</b>	570 kg	88 x 62 x 52 cm	UBH1100-UBH1600-STAND M-SIS300-SIS700
<b>MAR 108 Split</b>	785 kg	88 x 62 x 52 cm	UBH1100-UBH1600-STAND M-SIS700-SIS1350-ITS2250
<b>MAR 128 Split</b>	1000 kg	88 x 62 x 52 cm	UBH1100-UBH1600-UBH2250-STAND M-SIS700-SIS1350-ITS2250
<b>MAR 208 Split</b>	1700 kg	130 x 66 x 52 cm	UBH2250-B3200-B4200-SIS1350-ITS2250-ITS3250
<b>MAR 308 Split</b>	2450 kg	130 x 66 x 52 cm	UBH2250-B3200-B4200-SIS1350-ITS2250-ITS3250

## MAR Technology

**SDS - Stainless Steel Drum System**  
Scotsman scale ice makers are equipped with a revolving drum evaporator made in high quality stainless steel. The Scotsman MAR units are the best choice for dry and sub-cooled scale ice made from either fresh or sea water.

**THC - Total Hygiene Concept**  
There is no better foodgrade material than stainless steel. Scotsman machines are built with stainless steel frames and side panels, for rust-free durability, ease of cleaning and hygiene. Large and accessible ice storage areas allow for a quick and easy sanitising routine.

**Most models** offer bacterial protection control through the usage of AgION<sup>®</sup>, an antibacterial compound that is incorporated during production, into all plastic parts that come in contact with water.







High production capacities;  
reduced operation and maintenance costs.



# Scale ice machines - vertical evaporator

## ES Split SERIES

- Split Versions Modular Scale ice machines, vertical evaporator only, to be connected to remote condensing unit or central cooling system (*low temperature*).
- **Reliability and durability are guaranteed** by the use of top materials, such as AISI 304 grade stainless steel.
- Expansion valve supplied with the machine.



ES 2040

- Evaporator: cylinder made of AISI304 stainless steel, insulation made by polyurethane foam; external finishing in stainless steel; drip-tray in ABS food-proof.
- Cover in stainless steel.
- Base in alluminium alloy (Peralluman).
- Rotating shaft made of stainless steel with IGLIDUR bush.
- Ice scraper made of stainless steel with self-lubricating stainless steel bearings.
- Drive motor with direct connection with gear reducer.
- Three phase water pump; Water level sensor on water distributor (to be connected to level contactor).
- Floating valve for water supply; Overflow connection on the base; Drip pan in ABS plastic.
- Thermostatic expansion valve with external pressure regulation.
- Salt dosing pump.



ES1014 on UBH 1600 Upright storage ice bin and ES 2040 on SIS 1350 Ice shuttle storage bin



Remote condensing units for ES series, fresh water:  
**UR 20 A** - 3.000 kg in 24h  
**UR 20 B** - 3.800 kg in 24h  
**UR 30** - 5.000 kg in 24h  
**UR 30 H** - 5.000 kg in 24h



## EC Compact SERIES

Compact models made by galvanized structure frame where the evaporator is fixed and complete with semi-hermetic Bitzer compressor R404a, internal protection and crankcase heater; condenser in copper/aluminium coil with fans; pressure switch for fan speed regulation, liquid receiver with safety valve, filter and sight glass on liquid line, double pressure switch, differential oil pressure switch, oil separator, electrical control panel IP55 installed on board with electrical protections.

Additional version is Remote Condensing unit (UR models) where the refrigeration system is built with the above mentioned components in a protected frame with doors and feet.

### Rotating shaft and ice scraper

The rotating shaft and the revolving reamer assembly (ice scraper), subjected to constant mechanical load, are built in solid AISI304 stainless steel.

### Salt dosing

A water sump collects the incoming water, and stores it prior to distribution; salt dosing is standard mounted in order to provide a more consistent quality of ice when water is particularly hard.

### Electrical control panel and protections

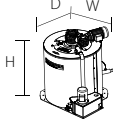
Installed standard on compact versions and as accessory on split, control the electrical supply to condensing unit whilst protecting all mechanical and electrical components.

### Lubrication System

Effective lubrication results in durability. Oil circulation is essential in both compact and split version units. Our compact models are equipped with, as a standard feature, an oil separator and oil differential pressure switch, optimising and protecting the compressor operations.



## Choose your own vertical evaporator Scale-Ice machine...

Model	Max daily production in 24h <small>Ambient temperature 21°C Water temperature 15°C</small>	Dimensions 	Matching Ice Storage Bin
<b>ES 1014</b>	1000 / 1400 kg	70 x 62 x 84 cm	STAND M-UBH1100-UBH1600-UBH2250-B3200-SIS1350
<b>ES 2040</b>	2000 / 4000 kg	90 x 79 x 140 cm	UBH1600-UBH2250-B3200-B4600-SIS1350-ITS2250-ITS3250
<b>ES 4050</b>	5000 kg	110,5 x 103 x 149 cm	B4600-ITS3250
<b>EC 10</b>	1000 kg	126x 85 x 92 cm	UBH1600-STAND M-SIS1350-ITS3250
<b>EC 15</b>	1400 kg	150 x 95 x 92 cm	UBH2250-B3200-SIS1350-ITS2250-ITS3250
<b>EC 25</b>	2500 kg	235 x 165 x 195 cm	Cold Room / Special storage Bins
<b>EC 30</b>	3000 / 3800 kg	235 x 165 x 159 cm	Cold Room / Special storage Bins
<b>EC 40</b>	3800 kg	235 x 165 x 159 cm	Cold Room / Special storage Bins
<b>EC 50 / EC 50H</b>	5000 kg	320 x 185 x 168 cm	Cold Room / Special storage Bins





Highly practical:  
flexible solutions.

ICE TOTEM  
WORLD  
PREMIERE



#### New Concept!

With the **Scotsman "Totem" Nugget ice maker**, the ice machine is positioned in the food display area, at the back-side of the fresh food display counter.

**Ice is delivered directly to the counter, with no need of ice storage.**

The fresh food counter is loaded with ice during the night hours and is ready for food-display early in the morning.

**Daily manual work, required to load the ice, is history!**



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# Nugget ice machines

## MFN SERIES

### Modular Nugget ice machines

- Reduced height to **ease installation in tight spaces**; special alloy reinforced auger with double spiral ice breaker for stronger extrusion pressure produces very dry ice.
- Stainless steel scotch-brite finish.
- Side panels have rounded corners for enhanced ease of cleaning and aesthetics; top cover moulded in ABS plastic;
- Removable side panels on all four sides to **ease maintenance and after-sales service operations**.



ABS Plastic Cover



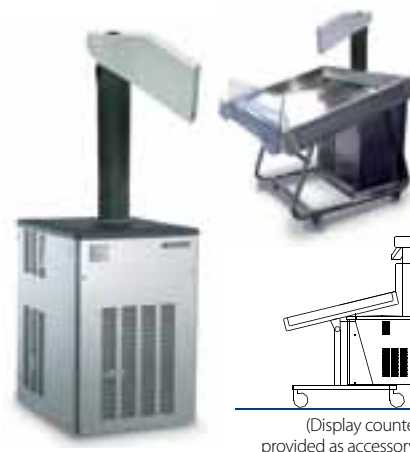
Electronic Control Panel



SIS 300 Storage Ice Shuttle

SIS Ice Cart  
Capacity: 73 kg

## NVT Series with Vertical Transport



(Display counter provided as accessory)

When ice machines are installed right on top of the fresh-food display counters, **ice then falls directly on the display counters, eliminating the need for investment in ice storage and transport equipment, with great floor space savings.**

As the Operators start the display preparation each day, ice only needs to be spread across the counter, **with meaningful labor savings.** **Hygiene is maximized**, as ice is dropped in place without coming in contact with ice scoops or shovels, and ice carts.

## MFN Split Versions

Standard versions are supplied complete with thermostatic valve, solenoid valve, sight glass, pressure regulating valve and protected control panel.



Remote condenser

- **Space saving:** reduced footprint, only 0,15 sq mt! No more ice-storage (cold room or ice storage bins) required
- **Energy saving:** the "Totem" works at night, using available refrigeration capacity from low temperature cooling system, @ lower electrical rates
- **Labor saving:** ice bed preparation time is greatly reduced (average from 1h to 1,5 hr for a 10 mt long display counter)
- **Hygienically safer:** less ice manipulation through direct display load keeps ice protected from possible bacterial contamination
- **Great for Merchandising:** operators have now more time to dedicate to ice bed preparation; nugget ice whiteness offers food color enhancement, for greater impulse purchase, and it's near zero C° temperature creates best conditions for delicate food re-hydration
- **Improves working conditions:** as ice is loaded directly on the counter, work is less physically stressful and the risk of accidents from ice transport and manipulation are virtually eliminated

## N SERIES



Equipped with the advanced self-diagnostic Prodigy technology, Prodigy Nugget Ice Machines are more reliable and highly efficient, using up to 50% less water and 15% less energy than cube ice machines.

In cases of very high demand for Nugget ice, the N Series, paired with an adequate storage bin, provides a capacity to meet every specific need.



## Choose your own "Modular Nugget Machine"...

Model	Max daily production in 24h Ambient temperature 10°C Water temperature 10°C	Dimensions WxDxH	Matching Ice Storage Bin
<b>MFN 46</b>	270 kg	54 x 66 x 64,5	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100 STAND M-SIS300-SIS700-SIS1350
<b>MFN 56</b>	470 kg	54 x 66 x 78,5 cm	SB193-SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700-SIS1350
<b>N 622</b>	292 kg	56 x 61 x 58,4 cm	SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700
<b>N 922</b>	438 kg	58 x 61 x 68,6 cm	SB322-SB393-SB530-SB550-SB948-SB1025-UBH1100-UBH1600 STAND M-SIS300-SIS700-SIS1350
<b>NVT 46</b>	250 kg	54 x 66 x 64,5 cm	NOT REQUIRE ICE STORAGES
<b>NVT 56</b>	480 kg	54 x 66 x 78,5 cm	NOT REQUIRE ICE STORAGES
<b>MFN 86</b>	1900 kg	108 x 78 x 114 / 125,5cm	UBH2250-B3200-B4600-STAND M-ITS2250-ITS3250
<b>MFN 88 Split</b>	1900 kg	54 x 78 x 114/125,5 cm	UBH2250-B3200-B4600-STAND M-SIS1350-ITS2250-ITS3250
<b>TOTEM</b>	440 kg	36 x 58,2 x 160 cm	NOT REQUIRE ICE STORAGES



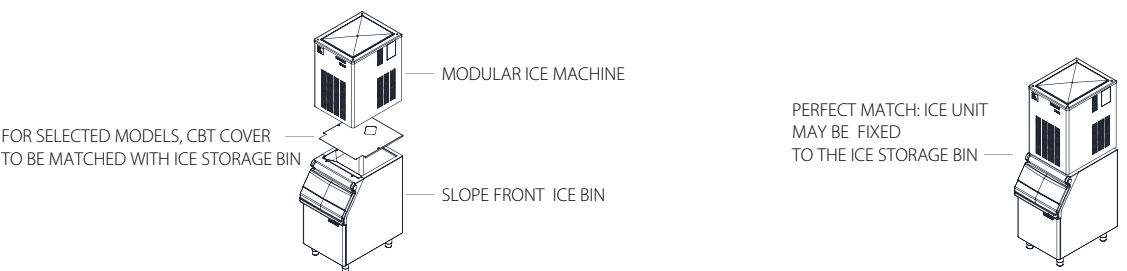
# Slope Front Ice Bin - SB Series

Ice Storage bins manufacturing is an integral part of our activity which revolves around making ice available hygienically, comfortably and in the needed quantities for each application.

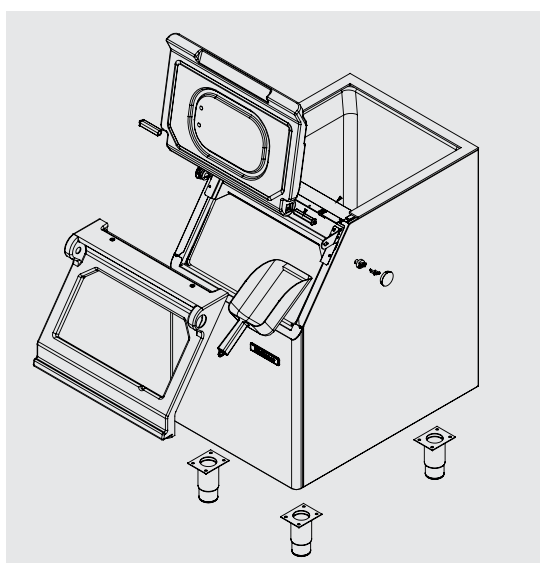
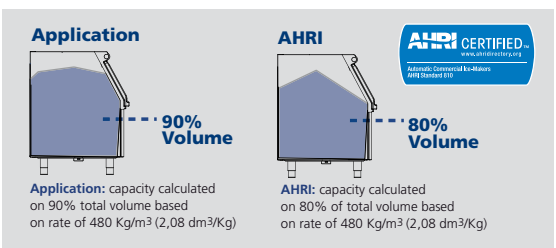
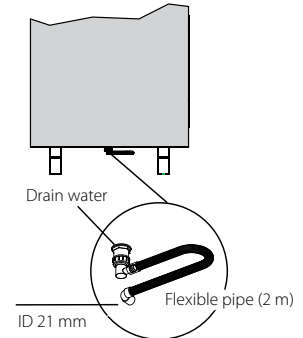
At the Operator's level, ice storage capacity should normally have greater relevance than the daily ice machine output, especially in all those locations where ice consumption shows "peaks and valleys" during the opening hours. Irregular ice consumption patterns are at the base of the "modular" configuration of larger capacity ice making systems: an oversized storage capacity will allow investment savings for the actual ice making machine, as ice accumulation during low-demand periods will create the reserves needed for its deferred consumption during peak-demand times. Ergonomic design, resistant stainless steel side and base panels, non-CFC polyurethane foam liner insulation, polyethylene hinged lift door, stand as the pre-requisite features of a world-class ice storage bin range. The moving parts in an ice storage bin are the door and the door hinges. These are the tell-tale, critical elements to be upgraded for long term, trouble-free operation.



SB 393 -Slope Front Ice Bin



Storage bins base flexible drain hose conveniently rotates at 360° radius to allow ease-of-connection with any floor water drain position.



- New sleek, contemporary styling.
- Convenient, built-in scoop holder.
- Scoop incorporates, antimicrobial Agion for better sanitation.
- Polyurethane Insulation, high density.
- Polyethylene bin interior, is sanitary and easy to clean, and resist scratches and scuffs from ice scoops.
- Stainless steel bin exterior, and door in rotocast plastic.
- Bin Caster available on request.



Choose your own slope front ice bin			
Model	Max storage capacity	Dimensions	Use with
	Application / AHRI	WxDxH (whitout / with legs)	
SB 193	129 / 101 kg	56,8 x 84,1 x 90,1 / 104,5 cm	MF26-MF36-MF46-MF47-MF56-MF57-MFN46-MFN56
SB 322	168 / 132 kg	56,8 x 86,4 x 112,1 / 127,4 cm	MF26-MF36-F1222-MF46-MF47-MF56-MF57-N622-MFN46-MFN56
SB 393	181 / 141 kg	76,8 x 84,2 x 90,1 / 104,5 cm	MC16Short-MF26-MF36-F1222-MF46-MF47-MF56-MF57-MF58Split-MF59Split-N622-N922-MFN46-MFN56
SB 530	243 / 191 kg	76,8 x 86,6 x 112,4 / 127,4 cm	MC16Short-MF26-MF36-F1222-MF46-MF47-MF56-MF57-MF58Split-MF59Split-N622-N922-MFN46-MFN56
SB 550	252 / 197 kg	108,1 x 82,4 x 81,8 / 96,8 cm	MC16Short-MC46-MF26-MF36-F1222-MF46-MF47-MF56-MF57-MF58Split-MF59Split-N622-N922-MFN46-MFN56
SB 948	406 / 319 kg	123,1 x 87,9 x 112,4 / 127,4 cm	MC46-MF26-F1222-FME2404-MF46-MF47-MF56-MF57-MF58Split-MF59Split-MF68Split-MF69Split-N622-N922-MFN46-MFN56
SB 1025	478 / 375 kg	133,1 x 87,9 x 112,4 / 127,4 cm	MC46-MF26-F1222-FME2404-MF46-MF47-MF56-MF57-MF58Split-MF59Split-MF68Split-MF69Split-N622-N922-MFN46-MFN56

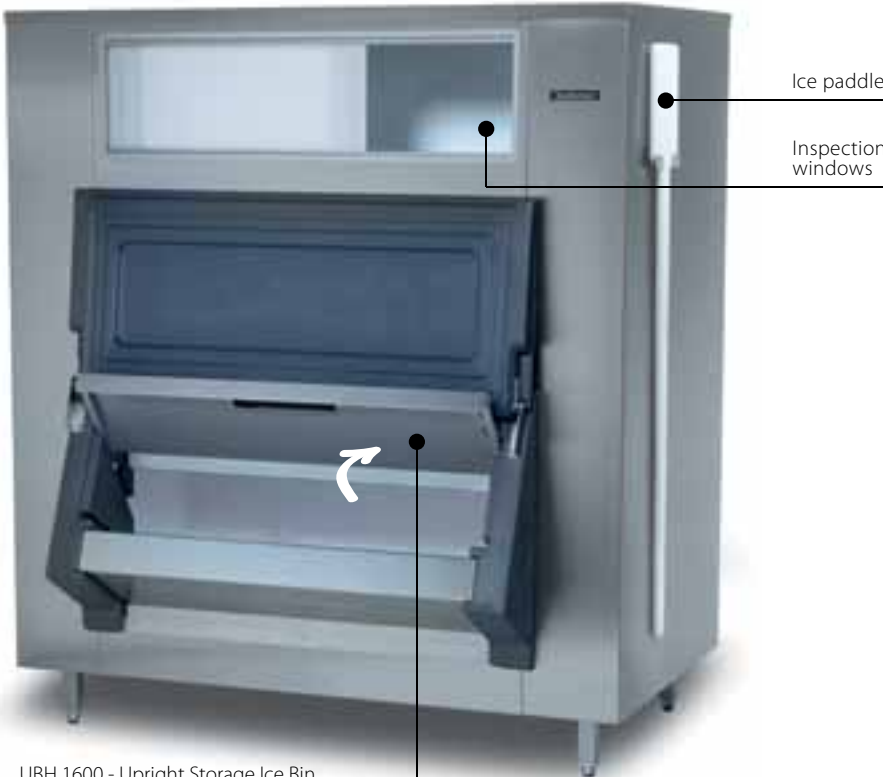




# Upright Storage Ice Bin - UBH / B Series

Upright, single and double door Ice Storage Bin, for Flake, Superflake, Nugget, Cubelet and Scale ice.

- Convenient multi position ice deflector prevents ice spillage and assists during ice loading operations.
- To accelerate flow during ice extraction, ice paddle (and hanging bracket) are accessories.
- Bin door is spring loaded for safe usage and tight seal of storage compartment. Made in durable rotocast plastic, is light yet durable, withstanding typical rough handling of industrial or food retail environments.
- Bin door frame is sturdy and ergonomic, accommodating the hinge mechanism of our state of the art bin door. Easily removed during cleaning routine.
- High density, non-corroding polyethylene bin liner, is designed with easy-to-clean rounded corners, and resists scratches and scuffs from ice scoops.
- Polyurethane Insulation assures long periods of ice storage, reducing ice melt.
- Sliding polyethylene inspection windows are handy for visual control and initial paddle operation.
- Load resistant, stainless steel adjustable legs, with flanged feet.
- Storage bin base flexible drain hose conveniently rotates at 360° radius to allow ease-of-connection with any floor water drain position.
- Ice Paddle in polyethylene as supplied as standard.

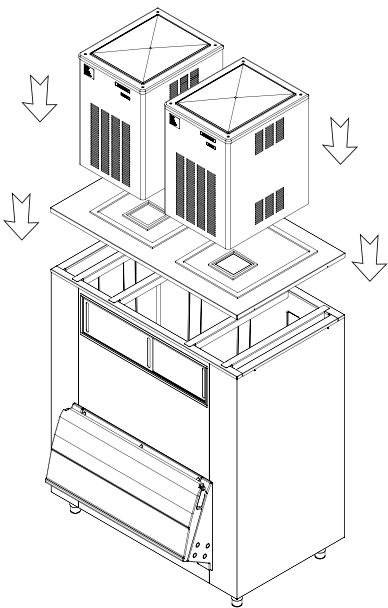


UBH 1600 - Upright Storage Ice Bin

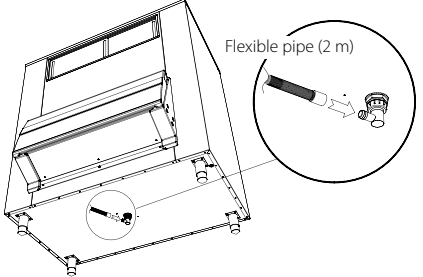


Bin door opening in first in - first out fashion

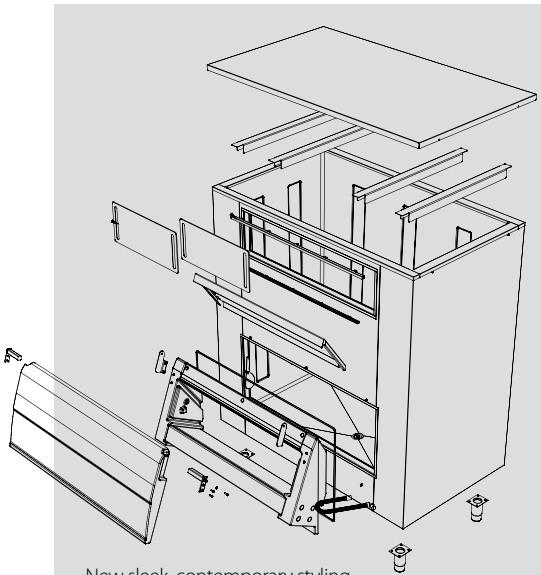
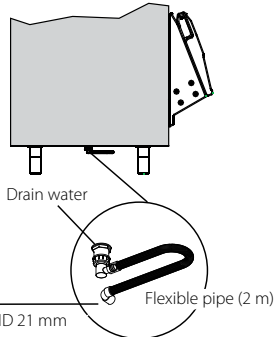
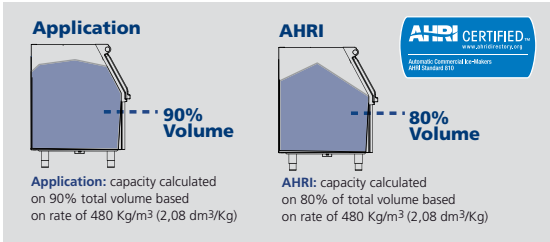
UBH 2250 Upright Storage Ice Bin with MAR 206 Scale Ice Maker



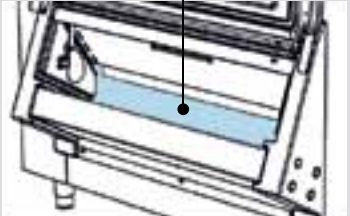
Storage bin base flexible drain hose conveniently rotates at 360° radius to allow ease-of-connection with any floor water drain position.



Easy to match with any ice maker.  
Maximum bearable weight: 500 kg.



- New sleek, contemporary styling.
- A perfect match to MF, MFN, N and MAR Scotsman modular Food Retail and Industrial cube ice machines.
- Stainless steel exterior, frame, sides, top, back and bottom.
- Heavy duty welded construction.
- Pre-cut top panel, to accommodate multiple Scotsman icemakers.
- Ice is stored in polyethylene bin interior, sanitary and easy to clean, resist scratches and scuffs from ice scoops, paddles and shovels.
- Ice flows from ice machine, to storage, to bin door opening in first in - first out fashion, for assured ice freshness.



"Fresh Ice"



## Choose your own slope front ice bin

Model	Max storage capacity	Dimensions	Use with
UBH 1100	Application / AHRI 553/ 434 kg	WxDxH (whitout / with legs) 122 x 112,8 x 127,3 / 142,7 cm	MC46-F1222-MF46-MF47-MF56-MF57-MF58Split-MF59Split-MF66-MF68/MF69Split-N622-N922-MFN46/56-MAR56/76/106/126-MAR78/108/128-ES1014
UBH 1600	812 / 637 kg	152,4 x 112,5 x 158,1 / 173,1 cm	MC46-MC1210-F1222-MF56-MF57-MF58Split-MF59Split-MF66-MF68/MF69Split-N622-N922-MFN46-MFN56-MAR56-MAR76-MAR106-MAR126-MAR78-MAR108-MAR128-ES1014-EC10/15
UBH 2250	1068 / 838 kg	183 x 146,8 x 113,8 / 129,2 cm	MC1210-MF58Split-MF59Split-MF66-MF68/MF69Split-MF86-MF88Split-MFN86-MFN88Split-MAR126-MAR206-MAR306-MAR128-MAR208-MAR308-EC10/15/20-ES1014
B 3200	1500 kg	183 x 122 x 160 / 175 cm	MF69Split-MF86-MF88Split-MFN86-MFN88Split-MAR206-MAR306-MAR208-MAR308-EC10/15/20-ES1014
B 4600	2100 kg	183 x 122 x 220 / 236 cm	MF69Split-MF86-MF88Split-MFN86-MFN88Split-MAR306-MAR208-MAR308-EC10/15/20-ES1014-ES2040-ES4050



Scotsman is proudly introducing its state-of-the-art,  
brand new SIS range of ice storage bins.



# Storage Ice Shuttle - SIS / ITS Series

Suspended, Single door, Ice Storage Bin with  
Ice Shuttle cart(s), for Cube, Flake, Superflake,  
Nugget, Cubelet and Scale ice.

- No more ice transferring operations from your storage: ice is gravity-fed into the shuttle cart. And to distribute your ice at the usage point, ice shuttle cart(s) are equipped with easy to use and hygienically proven ice totes (accessory).
- Convenient multi position ice guillotine prevents ice spillage and assists during ice loading operations.
- To accelerate flow during ice extraction, ice paddle (and hanging bracket) are available standard.
- Storage compartment bin door is spring loaded for safe usage and tight seal. Made in durable rotocast plastic, is light yet durable, withstanding typical rough handling of busy working environments.
- Bin door frame is sturdy and ergonomic, accommodating the hinge mechanism of Scotsman state of the art bin door.
- Polyurethane Insulation assures long periods of ice storage, reducing ice melt.
- Sliding polyethylene inspection windows are handy for visual control and initial paddle operation.
- Load resistant, stainless steel adjustable legs, have flanged feet for stability and ease of height adjustment.
- Heavy-duty frame, hosts base with built-in drain for bin and cart. Drain connection is reversible.
- Each SIS Ice Storage and Shuttle System is shipped with it's own Shuttle cart(s).
- Ice Paddle in polyethylene as supplied as standard.



Guillotine-style dosage system

SIS 1350 Storage Ice Shuttle



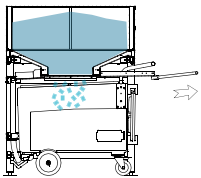
SIS 700 Storage Ice Shuttle with MF 58 Modular Superflake Ice Maker

Ice falls from ice machine into storage compartment, with polyethylene interior, sanitary and easy to clean. It is allowed into the shuttle carts through a guillotine-style dosage system, first in-first out fashion, for assured ice freshness.

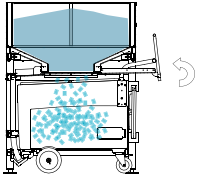


## TO LOAD

Pull guillotine to open ice passage.

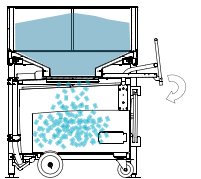


Raise guillotine handle in safety position.

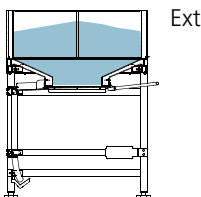
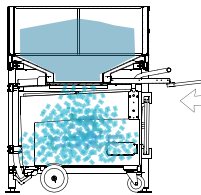


## TO CLOSE

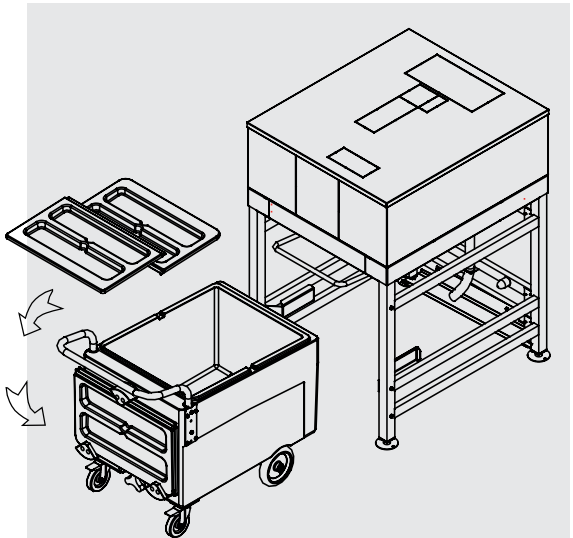
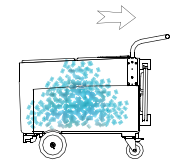
Lower handle into operating position.



Push to close ice passage.



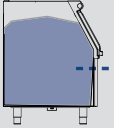
Extract ice shuttle from loading bay.



- New sleek, contemporary styling. A perfect match to MC, MF, MFN and N Scotsman modular Food Retail and Industrial cube ice machines.
- Stainless steel exterior for both storage and frame.
- Storage compartment is heavy duty.
- Frame can be pre-assembled or shipped as kit. In this case, casted cart is loaded within the ice storage compartment, for reduced freight and storage costs.
- Pre-cut top panel, to accommodate multiple Scotsman ice makers.



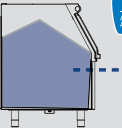
## Application



90% Volume

Application: capacity calculated on 90% total volume based on rate of 480 Kg/m³ (2,08 dm³/Kg)

## AHRI



80% Volume

AHRI: capacity calculated on 80% of total volume based on rate of 480 Kg/m³ (2,08 dm³/Kg)



SIS 300



SIS 700



SIS 1350



ITS 2250



ITS 3250

## Choose your own Storage Ice Shuttle

Model	Max storage capacity	Dimensions	Use with
SIS 300	Application + Cart AHRI + Cart 137 + 73 = 210 kg 107 + 73 = 180 kg	WxDxH (whitout / with legs) 88,5 x 118,7 x 135,2 cm	MF26-MF-36-F1222-MF46-MF47-MF56-MF57-MFN46-MFN56-N622-N922 MAR56-MAR76-MAR78
SIS 700	318 + 73 = 391 kg 249 + 73 = 322 kg	88,5x 126,7 x 180,5 cm	MC16 Short-MC46-MF26-MF36-F1222-MF46-MF47-MF56-MF57-MF58Split-MF59Split MF68Split-MF69Split-MF66-MFN46-MFN56-N622-N922-MAR56-76-106-126-MAR78-108-128
SIS 1350	613 + 73 + 73 = 759 kg 481 + 73 + 72 = 627 kg	175,3 x 126,7 x 180,2 cm	MC46-MC1210-MF56/57-MF58/59Split-MF66-MF68/69Split-MF86-MF88Split-MFN56-MFN86 MFN88Split-MAR106/126/206/306/108/128/208/308/ES1014-EC10/15
ITS 2250	994 + 109 + 109 = 1212 kg n.a.	152,4 x 121,9 x 246 cm	MF66-MF59/68/69Split-MF86-MF88Split-MFN86-MFN88Split-MAR126/206/306 mar108/128/208/308-EC10/15-ES1014
ITS 3250	1494 + 109 + 109 + 109 = 1831kg n.a.	223,6 x 121,9 x 246 cm	MF69Split-MF86-MF88Split-MFN86-MFN88Split-MAR206/306 MAR208/308-EC10/15-ES1014-ES2040-ES4050





# RBC Stand and Ice Carts



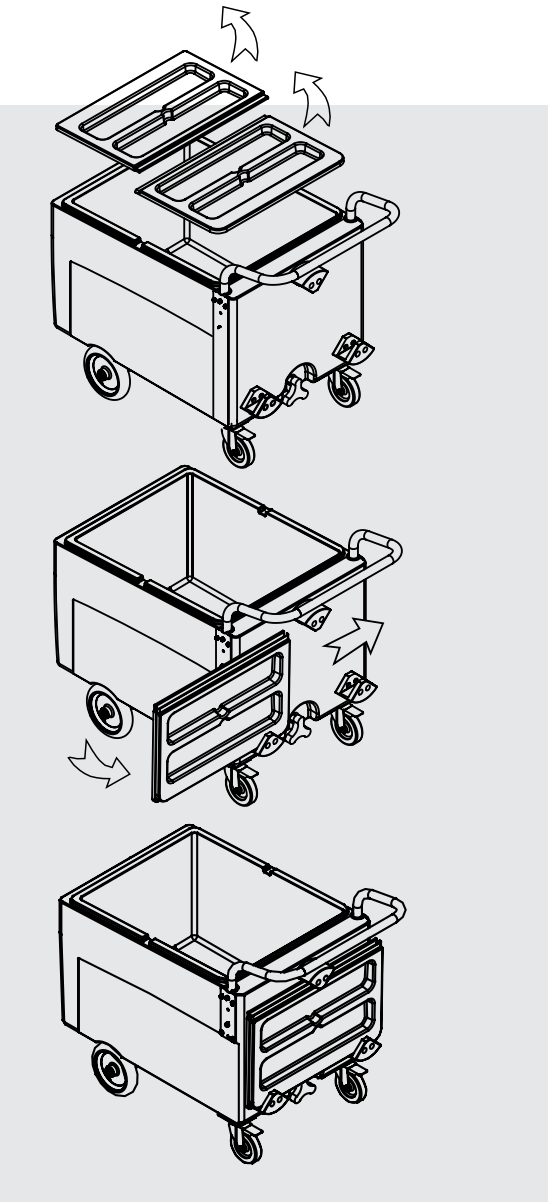
Insulated Cart made of double insulated plastic, with nylon wheels and ergonomyc handle for easy maneuverability; water drain with faucet.

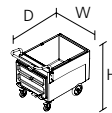


Stand M with MF 58 Split and RBC 500 Insulated Cart

## SIS Carts

- Shuttle carts are wheeled at the usage point, with little effort and maximum ice hygiene.
- Shuttle cart(s) bay is equipped with melting ice water drainage system, easily connected the floor water drain.
- A manual drain activation system is easily operated to properly dispose of drain water while shuttle cart is positioned in its load position.
- Six ice totes (accessory) fit conveniently in the Shuttle cart(s), and may be covered with the shuttle lids for longer storage periods.
- High density, non-corroding polyethylene Ice Shuttle interior is designed with easy-to-clean rounded corners, and resists scratches and scuffs from ice scoops.
- Ice Shuttle handle-bar is in 304 stainless steel with anti-slip rubber treatment, for ease of steering and durability.



ITS 3250			
Model	Max storage capacity	Dimensions	Use with
		 WxDxH	
<b>STAND M</b>	-	118,7 x 106,2 x 105	MF26-MF36-F1222-MF46/47-MF56/57-MF58/59Split-MF68/69Split-MF66-MFN46-MFN56-N622-N922-MAR56-MAR76-MAR106-MAR126-MAR78-MAR108-MAR128
<b>RBC 200</b>	100 kg	85 x 95 x 84 cm	MF26-MF36-F1222-MF46/47-MF56/57-MF58/59Split-MF68/69Split-MF66-MFN46-MFN56-N622-N922-MAR56-MAR76-MAR106-MAR126-MAR78-MAR108-MAR128
<b>RBC 300</b>	150 kg	85 x 95 x 110 cm	MF26-MF36-F1222-MF46/47-MF56/57-MF58/59Split-MF68/69Split-MF66-MFN46-MFN56-N622-N922-MAR56-MAR76-MAR106-MAR126-MAR78-MAR108-MAR128
<b>RBC 500</b>	300 kg	105 x 135 x 102 cm	MF26-MF36-F1222-MF46/47-MF56/57-MF58/59Split-MF68/69Split-MF66-MFN46-MFN56-N622-N922-MAR56-MAR76-MAR106-MAR126-MAR78-MAR108-MAR128
<b>SIS Cart</b>	73 kg	63,6 x 108,8 x 89,8 cm	SIS300-SIS700-SIS1350
<b>ITS Cart</b>	109 kg	61,6 x 105,4 x 90,8 cm	ITS2250-ITS3250





## Which ice to choose?

### Fishmongers, Supermarkets, Minimarkets

- Display counters from 2 sq.m to 4 sq.m
- ▶ One Flake or Superflake ice machine

**For small display areas and lower capital outlay,** we recommend Scotsman **Superflake ice**.



**For medium display areas,** where the product remains for some hours on the counter we recommend Scotsman **sub-cooled Scale ice**.

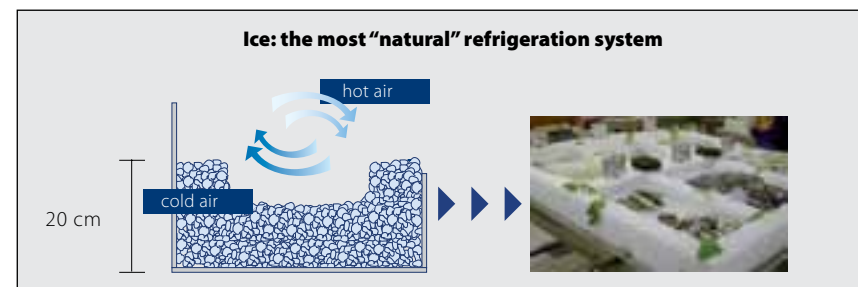


### Supermarkets, City Stores

- Display counters from 5 sq.m to 8 sq.m
- ▶ Two ice machines, Superflake or Scale ice (or both types together)

### Hypermarkets, Cash & Carry

- Display counter from 10 sq.m to 15 sq.m
- ▶ Two or three Scale ice machines (or alternatively Superflake machines)



### Sizing example with sub-cooled Scale ice for display:

- fish counter dimensions: 200 x 100 cm
- sub-cooled Scale ice, thickness 20 cm
- a = 20 dm (equiv. 200 cm)
- b = 10 dm (equiv. 100 cm)
- c = 2 dm (equiv. 20 cm)
- $a \times b \times c = 20 \times 10 \times 2 = 400 \text{ dm}^3 \times 10\% = 440 \text{ dm}^3$
- $440 \text{ dm}^3 / 2.1 \text{ dm}^3/\text{Kg} = 209.52 \text{ Kg}$  rounded to 210Kg

$$\frac{(a \times b \times c)}{K(1-2)} = +10\% \text{ additional}$$

Measure units dm:  
 $K1 = 1.8 \text{ dm}^3/\text{Kg}$  Superflake Ice  
 $K2 = 2.1 \text{ dm}^3/\text{Kg}$  sub-cooled Scale ice



**For large display areas:** where the sales counter is open for at least 12 hours a day, where there is a daily loading of the counter and where the quantities of ice are important, we recommend the use of Scotsman **sub-cooled Scale ice**.



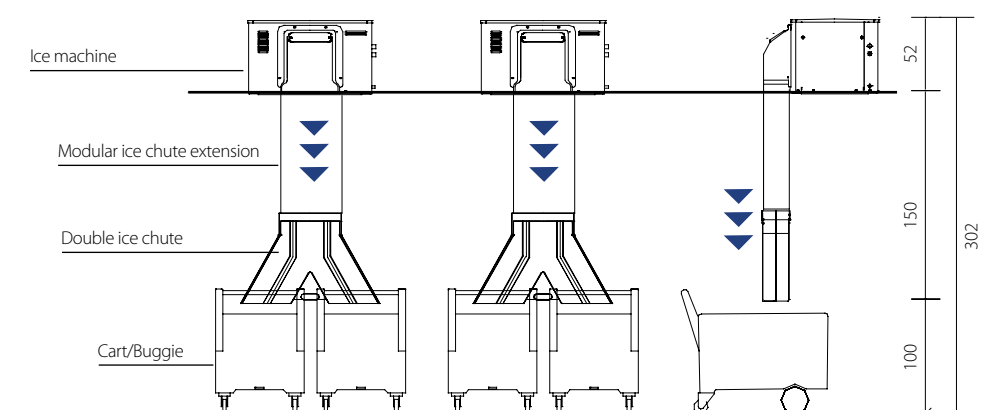
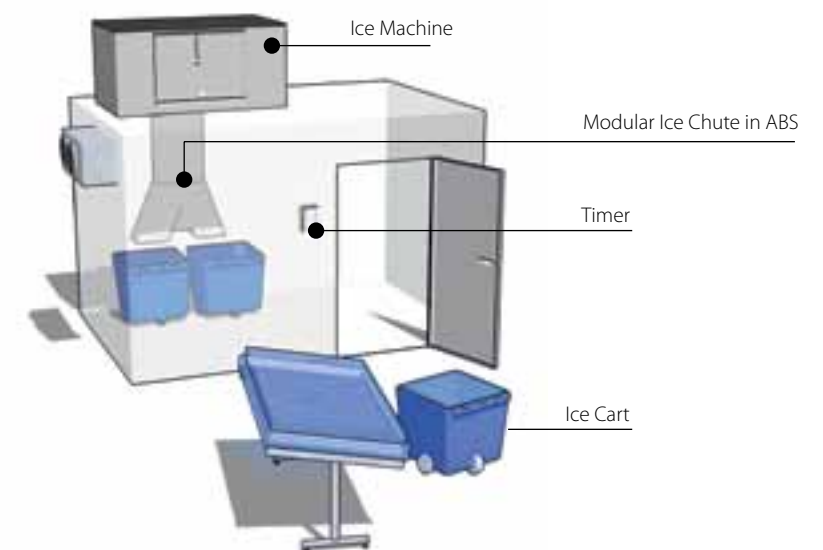
## Ice machines installed on top of cold-room

### SYSTEM CONFIGURATION

The ice produced is dropped directly in foodgrade plastic carts stored inside the cold room (normally at positive temperatures). Ice carts need to hold approximately the same amount of ice needed at the time when the fresh-food display counter is to be loaded with ice (usually early morning). Alternatively, the cart's volume in litres needs to be approximately twice the weight in kilograms of ice needed.

### ADVANTAGES

- Space is saved by using one cold room for storing the ice side by side with the fresh products.
- Ice will last longer when stored in cold rooms.
- ABS modular ice chutes guide the ice into the ice carts being loaded inside the cold room.
- Ice level sensors (thermostatic or infra-red) monitor the ice level in the carts.
- Ice is then rolled to the food display benches, and manually loaded onto the displays using dedicated ice shovels.







## Ice machines positioned in the food display area

### Ice "Totem"

#### New Concept!

With the Scotsman "Totem" Nugget ice maker, the ice machine is positioned in the food display area, at the back-side of the fresh food display counter.

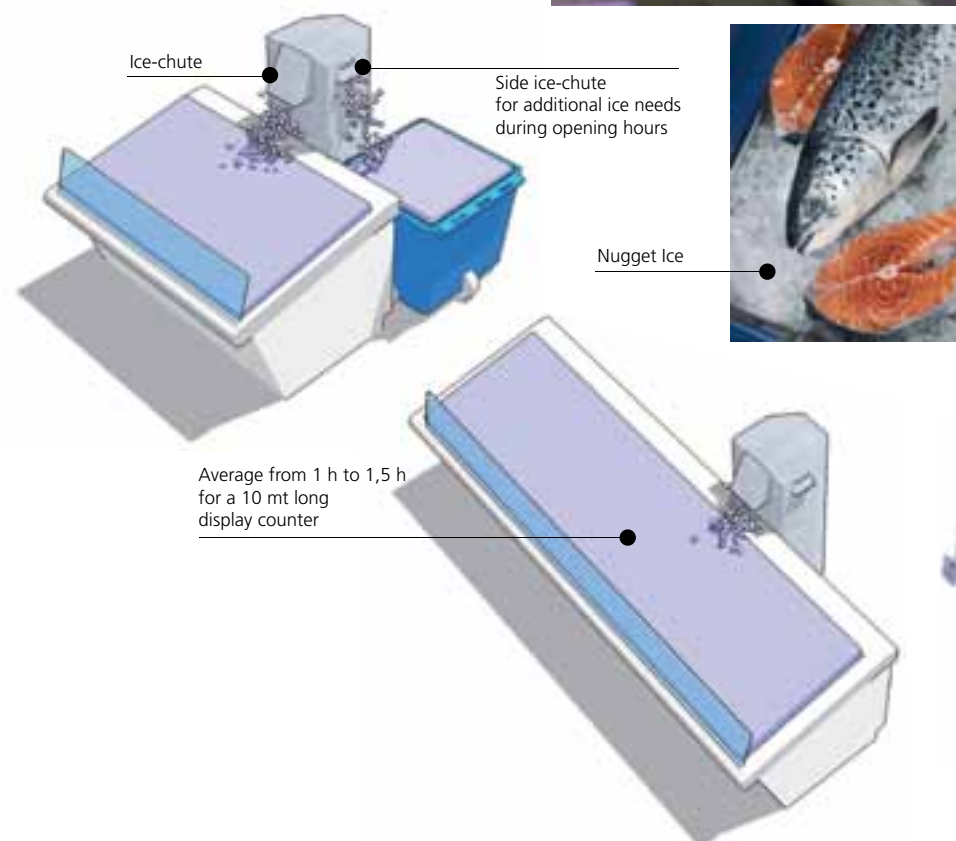
**Ice is delivered directly to the counter, with no need of ice storage.**

The fresh food counter is loaded with ice during the night hours and is ready for food-display early in the morning.



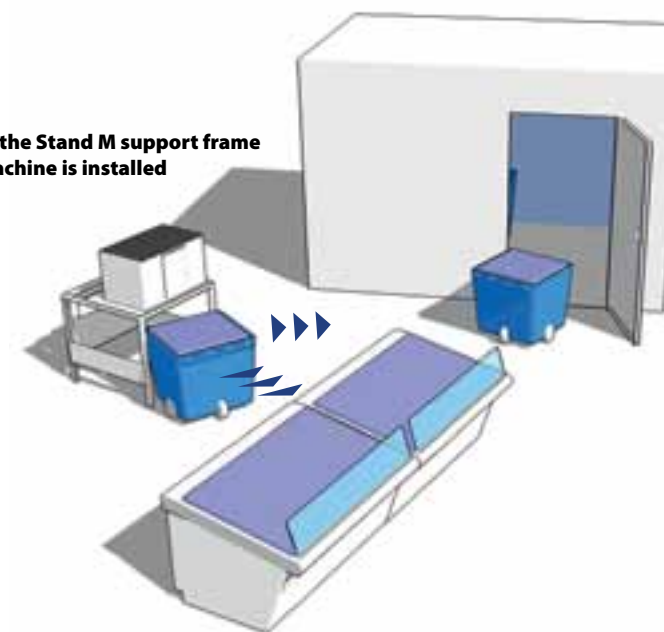
### ADVANTAGES

- Space saving: reduced footprint, only 0,15 sq mt! No more ice-storage (cold room or ice storage bins) required
- Energy saving: the "Totem" works at night, using available refrigeration capacity from Low temperature cooling system, @ lower electrical rates
- Labor saving: ice bed preparation time is greatly reduced (average from 1h to 1,5 hr for a 10 mt long display counter)
- Hygienically safer: less ice manipulation through direct display load keeps ice protected from possible bacterial contamination
- Great for Merchandising: operators have now more time to dedicate to ice bed preparation; nugget ice whiteness offers food color enhancement, for greater impulse purchase, and it's near zero C° temperature creates best conditions for delicate food re-hydration
- Improves working conditions: as ice is loaded directly on the counter, work is less physically stressful and the risk of accidents from ice transport and manipulation are virtually eliminated.



NVT Series with vertical transport: ice then falls directly on the display counter.

RBC cart fits under the Stand M support frame on which the ice machine is installed



## Ice machines installed on frame in preparation sales area

### SYSTEM CONFIGURATION

Once produced, ice is dropped directly into foodgrade plastic carts. The best ice carts are double walled and insulated. Larger capacity ice machines usually require two ice carts, set side-by-side. Ice Level Sensors (thermostatic or infra-red) monitor the ice level in the carts and stop the ice machine when carts are full. Carts are then rolled to the preparation area or to a cold room for storage.

### ADVANTAGES

- Insulated ice carts may be kept outside cold-rooms without major ice-melting issues. Expensive cold room space is best used for fresh food storage
- Energy saving through reduced refrigeration needed for smaller volume cold-rooms
- Ice machines are installed at ground level, allowing for easier routine maintenance and visual checks for correct machine operation
- Lower investment/rental costs due to reduced cold room volume and footprint.



**Ice machine placed on top of Stand M frame in preparation or sales area.**

Using a reduced footprint for ice-production and storage, this system allows for ease of ice transport directly to the display counter area. Such systems are mainly used in Supermarkets or City Stores, with a maximum display surface of 8 sq. m.



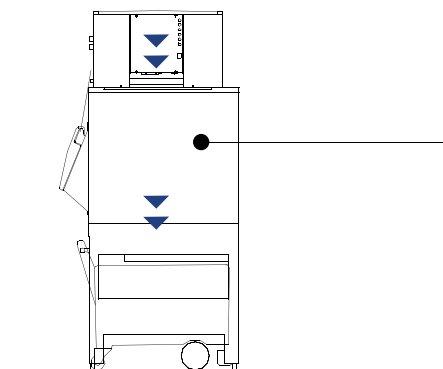




## Ice machines installed on insulated storage bins in preparation or sales area

### SYSTEM CONFIGURATION

Ice machines are installed at the top of a double-storey insulated storage compartment. Ice falls straight into an ice-hopper, where it rests until the "guillotine" is manually activated to make ice drop into the plastic insulated carts, placed underneath.



### ADVANTAGES

- Vertical-style storage system configuration saves floor space, allowing for maximised ice availability per sq.m.
- Insulation of both ice hopper and ice carts allows for non-refrigerated storage of ice, thus saving cold room space.
- Ice-hopper as first level of storage allows for ice production to continue while ice carts are away.
- Gravity fed ice-carts require minimum effort from the Operator. Totes in ice-carts reduce loading time during display counter preparation.



SIS 300 Ice Shuttle with MF 56: Sanitary ABS inside and Ice cart.

## Ice machines positioned on top of fish display counter in sales area

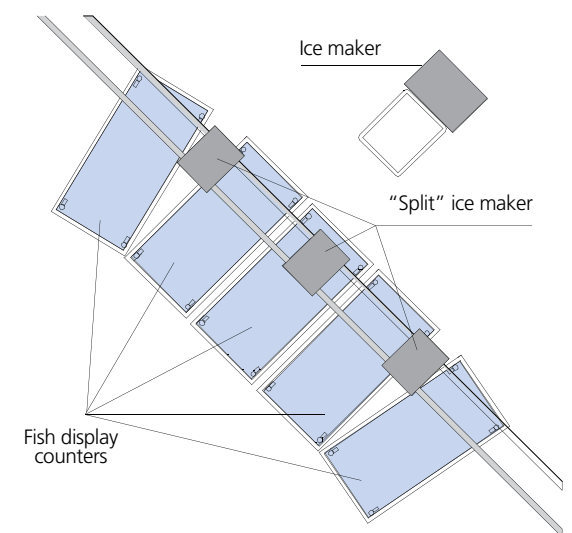
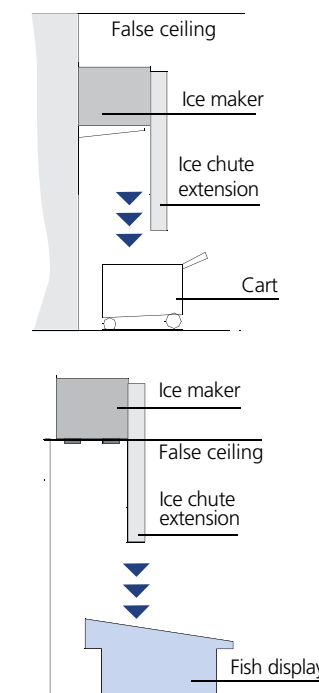
### SYSTEM CONFIGURATION

Ice machines are installed within the false-ceiling right on top of the fresh-food display counters. "Split" version ice-machines are the best option, in order to reduce the volume and weight being suspended; the units are connected to the Low Temperature central refrigeration system. Ice is produced at night, while refrigeration capacity drawn by other equipment (reach-in refrigerated cabinets, frozen food "islands" and cold-rooms) is at a minimum. Ice-production capacity must be calculated taking into account the machine's reduced working time, and usually the machine's size is twice the size of a traditional installation. Ice machines are usually operated through a simple timer. Ice falls directly on the display counters, eliminating the need for investment in ice storage and transport equipment. As the operators start the display preparation each day, ice only needs to be spread across the counter, with great labour saving.



### ADVANTAGES

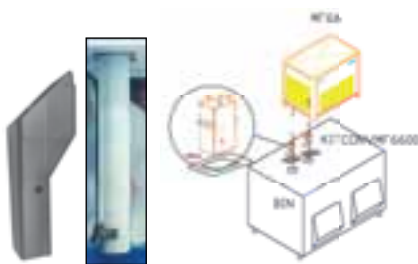
- Greater floor space savings, as machines are installed above the display counter, close to the ceiling. Ice-storage and ice-transport equipment is no longer needed.
- Great capital investment savings: ice machines, though larger in size, are needed in their "Split" version, eg, the evaporator portion only, and are connected to the central LT refrigeration unit. And no more ice-storage (cold rooms, ice bins) and ice-transport equipment (ice-carts)!
- Great energy savings, as ice is produced only at night, at reduced electricity rates, using very efficient central refrigeration LT units.
- Great labour savings: ice is made available right on the display counters!
- Better working conditions for personnel, reducing accident risks.







Accessories



**Ice chute connectors**

- KIC 46 / 56 for MF46 and MF 56
- KIC 66 for MF66
- KITCONVMF-46-56 ice chute lenght
- KITCONVMF6600 ice shute for Bin/MF66

**Refrigeration Compartment Cover Panels**

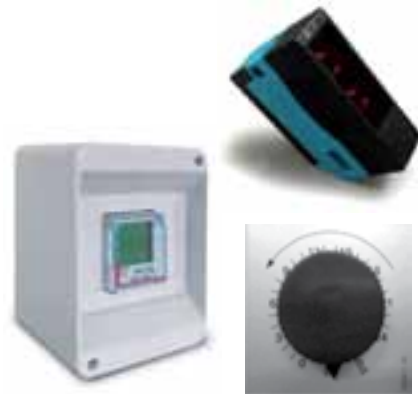
- KITPANNMAR1050 for MAR 56/76/106/126
- KITPANNMAR3050 for MAR 206/306

**KITMAREXTHOLE** Flanges for MAR ice chute (for cold room installation)



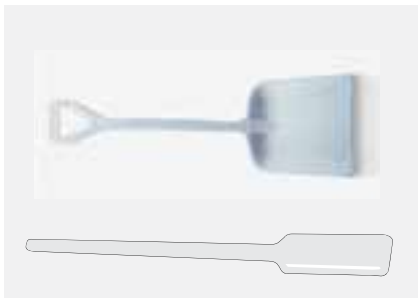
**Ice Chutes (ABS) for MAR**

- KIC MAR EXT 0001 (ice chute cm 90)
- KIC MAR DOUBLE (double ice chute cm 65)
- COVER MAR S 0000 for MAR 56/76/106/126 MAR 78/108/128 (cover)
- COVER MAR L 0000 for MAR 206/306/208 MAR 308 (cover)



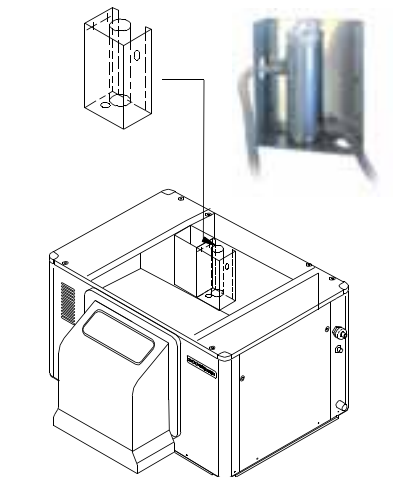
**Sensors**

- Weekly Timer KITTIMERSET01
- Infrared Sensor for MAR and MF ICESENSOR0003
- External timer for MAR 78/108/128/208/308 KITTIMER



**ICE SHOVEL**

- SHOVELLARGE00 (cm 42x26x112)
- ITSPADDLE000 (Polyethylene shovel for ITS)



**UV LAMP**  
for MF/FM-KITUVLAMPMF00

**UV LAMP**  
for MAR-KITUVLAMPMAR0



**Electrical control panel for Evaporator**  
Without/with Inverter  
QEE5101402600/QEE5204002600

**Kit for ice machine double-stacking**

KSC 11	for MC16 and MC 46
KSC 16 Short	for MC 16 Short
KSC 1210	for MC 1210
KSC 46	for MC 46 Split

**Tops for Bins** - sold separately, must be ordered as a separate item

CBT22EFSD	for MF26/36 when used with SB193/SB322
CBT22EFC	for MF46/47/56/57/MFN46/MFN56 when used with SB193/322
CBT30EFSD	for MF26/36/46/47/56/57 58/MF69Split/F1222/MFN46/56 N622/N922 when used with SB393/530
CBT42EFSD	for MF26/36/46/47/56/57 58/MF69Split/F1222/MFN46/56 N622/N922 when used with SB550
CBT16	for MC16SHORT when used with SB550
CBT48FMCD	for F1222/MF46/4756/57/58/ MF59Split/68/69Split/MFN46/56/ N622/922 when used with SB948
CBT52FMCD	for F1222/MF46/4756/57/58/ MF59Split/68/69Split/MFN46/56/ N622/922 when used with SB1025
CBT 48 MC SD	for MC 46 with SB 948
CBT 52 MC SD	for MC 46 with SB 1025



**Water Tank for Brine**, made of food safe plastic with cover, capacity 100 litres  
SALAMTANK100L



**Heat exchanger** for Evaporator ES  
HEATEX0ES2040/HEATEX0ES4050



**Chillit Immuno 181 for water treatment**  
DECALCH18000

CONDENSING UNIT (ambient temperature max +32°C – R404A)				
Galvanized structure with panels painted by epoxy powders; Hermetic/Scroll/semi-hermetic compressor, with liquid injection (Scroll compressor only), internal protection and crankcase heater; air cooled condenser with fan control speed; liquid receiver, filter and sight glass on liquid line, double pressure switch, oil separator, electrical control panel with protections (piping, oil and refrigerant charge not included).				
		Dimensions cm.	weight kg	Volt/Hz/ph
UR058SPLI0600 for MF58 SPLIT (hermetic compressor)	HP 1,00	104x45x76	90	230/50/1
UR068SPLI2600 for MF68 SPLIT (Scroll compressor)	HP 2,50	104x45x76	92	400/50/3
UR208SPLI2600 for MF88 SPLIT (Scroll compressor)	HP 5,00	130x45x120	195	400/50/3
UR078SPLI2600 for MAR78 SPLIT (Scroll compressor)	HP 2,00	104x45x76	88	400/50/3
UR108SPLI2600 for MAR108 SPLIT (Scroll compressor)	HP 3,50	119x45x91	113	400/50/3
UR128SPLI2600 for MAR128 SPLIT (Scroll compressor)	HP 4,00	119x45x91	120	400/50/3
UR208SPLI2600 for MAR201/208 SPLIT (Scroll compressor)	HP 5,00	130x45x120	195	400/50/3
UR308SPLI2600 for MAR301/308 SPLIT (Semi-hermetic compressor)	HP 10,00	132x90x90	360	400/50/3
URBRACKETS000 - Brackets for UR58-78-108-128-208	-	15x10x70	10	-

CONDENSING UNITS (Ambient Temperature +43°C - R404A)				
Galvanized structure with panels painted by epoxy powders; Hermetic/Scroll/semi-hermetic compressor, with liquid injection (Scroll compressors only), internal protection and crankcase heater; condenser in copper/aluminium coil with low noise fans; fan control speed, liquid receiver, filter and sight glass on liquid line, double pressure switch, oil separator, electrical control panel IP55 installed on board (NOT Included piping, oil and refrigerant charge)				
		Dimensions cm.	weight kg	Volt/Hz/ph
UR058SPHI0600 for MF58Split (hermetic compressor)	HP 1,50	103x45x75	105	230/50/1
UR068SPHI2600 for MF68Split (Scroll compressor)	HP 3,00	118x45x90	136	400/50/3
UR208SPHI2600 for MF88Split (Semi-hermetic compressor)	HP 10,00	175x80x150	415	400/50/3
UR078SPHI2600 for MAR78Split (Scroll compressor)	HP 2,50	118x45x90	122	400/50/3
UR108SPHI2600 for MAR108Split (Scroll compressor)	HP 4,50	130x45x120	165	400/50/3
UR128SPHI2600 for MAR128Split (Scroll compressor)	HP 8,00	130x45x120	219	400/50/3
UR208SPHI2600 for MAR208Split (Semi-hermetic compressor)	HP 10,00	175x80x150	415	400/50/3
UR308SPHI2600 for MAR308Split (Semi-hermetic compressor)	HP 12,00	184x120x111	668	400/50/3



## Ice since 1950...

Scotsman has been designing and manufacturing ice machines since 1950 - and for half a century innovation and reliability have always been our top priorities. Our ice machines, proudly made in Italy in our plant near Milan (Pogliano Milanese) or in Fairfax, South Carolina, USA, are nowadays distributed in more than 100 countries, with more than one million units installed worldwide! In the Food Retail sector, Scotsman ice machines are a familiar sight in fresh food preparation and display areas of Mini-markets, Supermarkets and Hypermarkets the world over.

For all ice applications required by specialised Food Retail operators, Scotsman is able to offer the specific ice shape for each precise requirement: Ice Fakes, Superflakes, Nuggets, Scale Ice and even Gourmet Ice cubes, with a variety of machine configurations and capacities, storage and transport solutions. Scotsman can also offer expertise gained through years of worldwide distribution to successful global food retail chains.

## Experience, Innovation, Reliability, Technical Support.

Innovation is at the base of the Scotsman philosophy and translates into a 'modus operandi' based upon three principles:

**Listen:** with more than one million ice machines installed around the globe we receive constant feedback - at Scotsman we value the experience of our partners and are willing to listen to any suggestions from your experience, in order to offer an even better product: you really are our out-sourced Research and Development Department!

**Design:** while on one side we rely on the information that we receive from our distribution network, the other drivers of our development are market analysis and research, as requests from different segments are constantly evolving. This information and our constant attention to the market allow us to anticipate the needs of the end users of ice machines, and to offer solutions specifically designed to meet their new requirements. Our final goal is to turn each customer into a satisfied and loyal customer, wherever they are in the world.

**Develop:** the final touch is creativity using state-of-the-art technology that allows us to develop new products as well as upgrading our existing ones, with constant attention to better performance, ease of use and maintenance and cost reduction, without compromising on the quality of our brand. Each and every new model is tested and certified according to the most stringent International quality protocols.

### The result is the leading ice maker brand... Worldwide.

Scotsman's mission has not changed throughout the last 60 years: fulfilling the requirement for quality ice, day after day. We strive for reliability from the very first stage of design, through to the manufacturing stage. Each and every unit is factory tested before leaving our facilities, which is why a Scotsman ice maker starts delivering excellent ice, cubes or flakes, from the very first batch. All the components of a Scotsman ice machine undergo rigorous tests. Our QA department's system requires that each new model undergoes a number of specific field tests in demanding working environments, in order to guarantee an excellent quality standard in line with the reputation of the Scotsman brand name. Our commitment to quality and reliability is testified by the warranty that covers all our products.

When you buy Scotsman, you buy reliability. Our Customer Service Department is constantly available to support our local network of installers and service technicians in their day-to-day work. Moreover, our Customer Service Department constantly organises regular technical seminars and training, ensuring our aftersales service operates to a quality standard in line with that of the Scotsman brand.

### Warranty and Certifications

Scotsman is the world's largest ice maker manufacturer. We are well known to most International QA institutes and our products are endorsed by the most prestigious certifications.





## Ice the world demands



[www.scotsman-ice-on-tablet.com](http://www.scotsman-ice-on-tablet.com)  
[www.scotsman-ice.com](http://www.scotsman-ice.com)

### EUROPE

Europe, Africa and Middle East  
Scotsman Ice Systems  
Frimont S.p.A. - Via Puccini, 22  
20010 Pogliano Milanese - Milan - Italy  
Ph: +39-02-93960208 - Fax: +39-02-93960201  
[scotsman.europe@frimont.it](mailto:scotsman.europe@frimont.it)

### USA

USA, Canada, Latin America  
Scotsman Ice Systems USA  
775 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Ph: +847-215-4550 - Fax: +847-913-9844  
[customer.service@scotsman-ice.com](mailto:customer.service@scotsman-ice.com)

### CHINA

Scotsman Ice Systems (Shanghai) Co., Ltd.  
Room 2505, Building 2  
20 Xuhong Middle Road, Xuhui District  
Shanghai China 200235  
Main line: +86-21-6131 3205/3200  
Fax: +86-86-21 6131 3330  
Mobile: +86-13764342320  
[sales@scotsman-china.com](mailto:sales@scotsman-china.com)  
[service@scotsman-china.com](mailto:service@scotsman-china.com)

### ASIA AND PACIFIC

Scotsman Industries (S) PTE. LTD.  
1 Commonwealth Lane #09-22  
One Commonwealth  
Singapore 149544  
Ph: +65-6738-5393 - Fax: +65-6738-1959  
[scotsman@scotsman.com.sg](mailto:scotsman@scotsman.com.sg)

### MIDDLE EAST & NORTH AFRICA

Scotsman-Frimont Regional Office (ME&NA)  
POBox: 42026, Sharjah, UAE  
HFZA Bonded Warehouse No. 1k-10/1  
Ph: +9716-5262-944/945  
Fax: +9716-5262-946  
Mob. Ph.+971-505-505-980  
Skype: mdawood331393  
[m.dawood@frimont.ae](mailto:m.dawood@frimont.ae)  
[fernando.m@frimont.ae](mailto:fernando.m@frimont.ae)

### SOUTH AFRICA

Scotsman Ice Systems SA (Pty) Ltd  
P.O. Box 44 - Riverclub - 2149  
Lakeview Business Park  
Unit 4, 8 - 10 Yaldwyn Road  
Jetpark, Boksburg  
Ph: +27-11-826-6742/1  
+27 087-720 0245/6/7/8  
Fax: +27-11 826 4123  
+27-086-634-0803  
[stuart@scotsmansa.co.za](mailto:stuart@scotsmansa.co.za)  
[jennifer@scotsmansa.co.za](mailto:jennifer@scotsmansa.co.za)

### SPAIN

Scotsman España, S.L.U. - c/ Galapagar, 12  
Poligono Industrial Venterro del Cano  
28925 Alcorcon (Madrid)  
Ph: +34-91-1109796 - Fax: +34-91-6337423  
E-mail: [scotsman@scotsman-espana.es](mailto:scotsman@scotsman-espana.es)  
[www.scotsman-espana.es](http://www.scotsman-espana.es)

### INDIA

Scotsman Group India  
Gurgaon One Complex - GT1-5A  
Sector 22, Old Gurgaon/Jaipur Rd  
Haryana, 122015  
India  
Tel: +91-124-4002459 - direct +91- 9560072459  
[david.owen@scotsman.com.sg](mailto:david.owen@scotsman.com.sg)



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