



FISH INDUSTRY

CATALOGUE







At **ITV-Ice Makers** we are aware of the importance of ice in **the industrial sector**, especially in the fishing industry. That is why we manufacture ice machines only with the latest technology, the most careful design, and the best value for money. Since 1982 we have been developing our own production techniques and technology, which have resulted in numerous patents and utility models. Our family business philosophy aims to build a long-lasting relationship with customers and suppliers, identifying, understanding, and satisfying their needs through personalised service.

ITV-Ice Makers is faithful to its R&D investment policy and is constantly increasing the resources allocated to the growth and improvement of its production and management systems. An effort that we make with the conviction that product and management quality are inseparable from customer satisfaction, and that we pursue:

- Orientation of levels of the company to the customer's: foreseeing present and future needs, anticipating market changes and adapting to their own technological and logistical transformations.
- A competitive, top-quality range of products and services, which enables them to market, quality, and guaranteed machines, and to conduct their business with full satisfaction.
- Quality management and a high level of involvement from our entire organization.
- Competent guidance and high-quality service.
- Use of clean and safe technologies within a line of sustainable development.



PESCADO FRESCO
COOPERATIVA DE PESCADORES
SAN PEDRO

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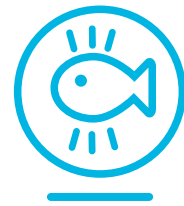
THE IMPORTANCE OF ICE FOR THE FISHING INDUSTRY



Ice is a key element in guaranteeing the quality and good condition of food. It cools products quickly and **guarantees suitable humidity levels**, preserving the original qualities of freshness and extending the shelf life of food.



Ice is also **the best means of refrigerating** and storing food during transport and distribution, without affecting its texture or composition, and keeping it in optimum condition for consumption.



Ice not only helps maintain the temperature of fish, but also **maintains humidity and ensures the produce remains fresh, shiny and conserves its weight**. It also contributes to an attractive presentation of the product at the point of sale.

ICE QUEEN RANGE



TRANSPORT AND PRESENT FISH IN THE BEST CONDITIONS

The **ICE QUEEN** series produces crushed or granular ice using a vertical cylindrical evaporator and heavy-duty auger.

The ITV granular ice produced by the **ICE QUEEN** range has a higher percentage of moisture being perfect the transport of fish and the conservation of food.

The ice production system is simple and reliable, prepared for areas with hard water and diffi cult operating conditions.

The bodywork is all stainless steel AISI 304 easily detachable.

Both versions of the oversized condenser are perfect for hot weather (air-cooled or water-cooled).



	REFRIG.	PRODUCT. kg/24h	STORAGE kg	COMPR.cv	POT. W	PHASE	DIMENSIONS	WEIGHT kg
ICE QUEEN 150 R290	AIR WATER	164 145	MODULAR	3/8	650	I	515 x 550 x 486	45
ICE QUEEN 200 R290	AIR WATER	211 225	MODULAR	1	780	I	515 x 550 x 575	52
ICE QUEEN N 300 R290	AIR	330	MODULAR	1 1/4 CV	1320	I	559 x 622 x 712	84
ICE QUEEN N 500 R290	AIR	490	MODULAR	1 1/2 CV	1590	I	559 x 622 x 712	97
ICE QUEEN F 300 R290	AIR	382	MODULAR	1 1/4 CV	1320	I	559 x 622 x 712	84
ICE QUEEN F 500 R290	AIR	515	MODULAR	1 1/2 CV	1687	I	559 x 622 x 712	97
ICE QUEEN 400	AIR WATER	390 395	MODULAR	1 3/8	1300	I-III	675 x 550 x 660	82
ICE QUEEN 550	AIR WATER	620 570	MODULAR	1/2	1850	I-III	675 x 800 x 550	105
IQ550 SPLIT	AIR	565	MODULAR	NO	600	I-III	525 x 410 x 815	70
IQ850 SPLIT	AIR	850	MODULAR	NO	600	I	525 x 410 x 815	88
IQ850 CO2 SPLIT	AIR	850	MODULAR	NO	600	I	525 x 410 x 815	88
ICE QUEEN 1100	AIR WATER	1125 1130	MODULAR	2 x 1 1/2	3700	III	1335 x 610 x 815	210



SCALA RANGE

RELIABILITY AND QUALITY IN INDUSTRIAL QUANTITIES

The **SCALA** machine, which produces flat flakes that are very cold and dry, in large-scale production, is the most compact on the market.

Simplicity, functionality and competitiveness sustain its recognised prestige in the world of cold production equipment.

Its construction with non-corrosive, lightweight and high strength materials ensure durability and ease of maintenance.

The **SCALA** range is the safest and most cost-effective choice for cooling and transporting foods, fish farms and the fishing industry.

While producing large quantities of ice for industrial use, the **SCALA** range of machines maintains an excellent standard of quality throughout the manufacturing process.

The **SCALA** machines' operation is based on a static cylinder which is free from swivel joints (helical reamer) coupled with a milling tool that detaches the ice without any strained or forced movements. Also it offers salt doser option to increase flake thickness.

TECHNICAL FEATURES:

- Electronic stop system.
- Electrical control panel.
- Direct drive gear motor.
- Submerged pump.
- Low water level safety device.
- Stainless steel soleplate evaporator.
- Expanded polyurethane insulation.
- Centered bearing.
- Ice deflection tray.
- Homogeneous water distributor.
- Controller to detect: low water level; rotation in the opposite direction; temperature increase due to an overloaded motor, or due to overfull storage.



SCALA 400 / SC 600
Case



SCALA 1TN / 1,5TN / 2TN / 3TN /
5TN / 10TN



SCALA SPLIT



SCALA REMOTE



SC SPLIT CO2

COMPACTS	REFRIG.	PRODUCT. kg/24h	COMPRESSOR cv	POWER W	DIMENSIONS	WEIGHT kg
SCALA 400 COMPACT	AIR	+/- 400	1 3/4	2200	1100 x 700 x 760	160
SCALA 600 COMPACT	AIR	+/- 600	2	3300	1250 x 750 x 835	210
SCALA 1T COMPACT	AIR	+/- 1000	4	5500	1360 x 1050 x 1000	390
SCALA 1500 COMPACT	AIR	+/- 1500	3+3	8250	1405 x 1645 x 1447	490
SCALA 2T COMPACT	AIR	+/- 2000	4+4	11000	1404 x 1613 x 1600	513
SCALA 3T COMPACT	AIR	+/- 3000	15	16500	2600 x 1150 x 1300	660
SCALA 5T COMPACT	AIR	+/- 5000	30	27500	3900 x 1220 x 1550	1500
SCALA 10T COMPACT	AIR	+/- 10000	45	55000	5575 x 1300 x 1920	1950

SPLIT	REFRIG.	PRODUCT. kg/24h	COMPRESSOR cv	POWER W	DIMENSIONS	WEIGHT kg
SCALA 400 SPLIT	AIR	+/- 400	-	190	1090 x 700 x 720	94
SCALA 600 SPLIT	AIR	+/- 600	-	190	1250 x 750 x 835	120
SCALA 1T SPLIT	AIR	+/- 1000	-	190	1050 x 750 x 870	170
SCALA 1500 SPLIT	AIR	+/- 1500	-	200	1050 x 750 x 1050	200
SCALA 2T SPLIT	AIR	+/- 2000	-	200	1050 x 750 x 1040	182
SCALA 3T SPLIT	AIR	+/- 3000	-	200	1050 x 750 x 1300	280
SCALA 5T SPLIT	AIR	+/- 5000	-	435	1850 x 1150 x 1250	1500
SCALA 10T SPLIT	AIR	+/- 10000	-	435	1850 x 1150 x 1800	1400
SCALA 15T SPLIT	AIR	+/- 15000	-	1000	2700 x 1800 x 2100	2500

Note: For 20T and 50T consult with factory.

REMOTES	REFRIG.	PRODUCT. kg/24h	COMPRESSOR cv	POWER W	DIMENSIONS	WEIGHT kg
SCALA 400 REMOTE	AIR	+/- 400	1 3/4	190	1100 x 700 x 760	100
SCALA 600 REMOTE	AIR	+/- 600	2	190	1250 x 750 x 835	120
SCALA 1T REMOTE	AIR	+/- 1000	4	190	1050 x 750 x 870	170
SCALA 1500 REMOTE	AIR	+/- 1500	3+3	200	1050 x 750 x 1060	200
SCALA 2T REMOTE	AIR	+/- 2000	4+4	7870	1050 x 750 x 1080	230
SCALA 3T REMOTE	AIR	+/- 3000	15	200	1050 x 750 x 1300	280
SCALA 5T REMOTE	AIR	+/- 5000	30	435	1850 x 1150 x 1300	800
SCALA 10T REMOTE	AIR	+/- 10000	45	435	1850 x 1150 x 1800	1400

C02	REFRIG.	PRODUCT. kg/24h	COMPRESSOR cv	POWER W	DIMENSIONS	WEIGHT kg
SCALA 400 CO ₂ SPLIT	AIR	+/- 400	-	190	1090 x 700 x 760	100
SCALA 600 CO ₂ SPLIT	AIR	+/- 600	-	190	1250 x 750 x 835	120
SCALA 1T CO ₂ SPLIT	AIR	+/- 1000	-	190	1050 x 750 x 870	162
SCALA 2T CO ₂ SPLIT	AIR	+/- 2000	-	200	1050 x 750 x 1080	230
SCALA 3T CO ₂ SPLIT	AIR	+/- 3000	-	200	1050 x 750 x 1300	280

Note: For options with NH₃ (ammonia) consult with factory.



ICE STORAGE SYSTEMS

BINS

STORE AND TRANSPORT YOUR ICE **SAFELY AND HYGIENICALLY**

The ice storage bins are an indispensable element to produce large amounts of ice:

- They guarantee an abundant stock.
- Avoid space problems.
- Facilitate the ice removal process and avoid spillage.
- They speed up the transfer of ice up to three times faster, saving time, work, and money.

Bins with cart:

- Facilitate the transport of ice
- No heavy ice buckets to lift.
- Easy opening and closing of the door with little effort thanks to the HELPDOOR system.
- Drainage system with an opening and closing key that is easily moved by foot, without the need to bend down to operate it.
- no need to bend down to operate it.
- Optional basket system for easy removal of ice from the trolley without the need to shovel the ice out of the trolley.
- The need to shovel the ice out with the time and effort that this entails.

	Storage	Width mm	Height mm	Depth mm	Net Weight Kg
S80	80	685	870	555	50
S130	160	762	740	819	52
S160	181	559	1122	872	54
S220	230	762	1071	819	56
S350	340	1097	1071	819	69
S400	390	1219	1071	819	75
S500	480	1321	1122	872	94
SCS150	140	762	1320	1016	75
SCS300	300	762	1862	1016	95
SCD400	413	1524	1520	1016	140
SCD600	617	1524	1820	1016	160
SCD800	812	1524	2084	1016	175
EASYCART	112	622	887	1054	35
6BUCKET KIT	70				8

BINS



BINS WITH CART | ICE TRANSPORT SYSTEM







ICE STORAGE SYSTEMS

ORBITAL BINS

STORE AND SUPPLY FLAKE ICE IN LARGE QUANTITIES

They are designed to store and supply, inside refrigerated chambers, the large quantities of flake ice that the **SCALA** range of machines produces.

For use in logistics centers for fresh fish, fish markets, ports, food industries or superstore headquarters.

- The exclusive design of the hopper and cone-shaped ice scatterer prevent the formation of holes and blocks of ice.
- Includes a spindle with simultaneous movement and rotation that moves the ice, facilitating the drainage of melting water, breaking blocks, and preventing the formation of caves. Dry, loose ice is thus obtained.
- The bin has an automatic dispensing system that saves time in handling ice and decreases losses in the melting of dispensed ice that isn't utilized.
- An optional weighing system can be included.

	Storage Tn	Volume m3	External diameter mm	Base height mm	Total height mm	Ice discharge Kg/h
SS221	2	5,96	2250	1000	2500*	4000
SS322	3	7,95	2250	1000	3000*	4000
SS422	4	9,94	2250	1000	3500*	4000
SS523	5	11,9	2250	1000	4000*	4000
SS732	7	14	3080	1000	3000*	9000
SS1033	10	21	3080	1000	4000*	9000
SS1242	12	25	4080	1000	3100*	9000
SS1542	15	31	4080	1100	3600*	9000
SS1843	18	37	4080	1100	4100*	9000
SS2544	25	50	4080	1100	5100*	9000
SS3044	30	63	4500	1200	5200*	9000

(*) +855mm with geared motor.

ORBITAL BINS





HOW MUCH ICE DO YOU NEED?

	TYPE OF ICE	QUANTITY	RANGE
Fish market exposition		1m ² 10cm 100Kg	ICE QUEEN
		1m ² 10cm 85Kg	SCALA
Fish market Storage/Camera		0,30 Kg/1 Kg fish	ICE QUEEN
Fish industry	 	Storage 0,3 Kg/1 Kg fish	ICE QUEEN/SCALA
	 	Cool embarked 0,5 Kg/ 1Kg fish	ICE QUEEN/SCALA
	 	Tropical embarked 1 Kg/1 Kg fish	ICE QUEEN/SCALA

 GRANULAR ICE
 FLAKE ICE

HOW MUCH GRANULAR ICE DO YOU NEED ON A FISH COUNTER?

$$\text{KG OF ICE NEEDED} = \frac{\text{ICE VOLUME (m}^3\text{) X DENSITY OF ICE (Kg/m}^3\text{) X AIR HOLES COEFFICIENT}}{\text{COEFFICIENT OF ICE LOST DURING HANDLING}}$$

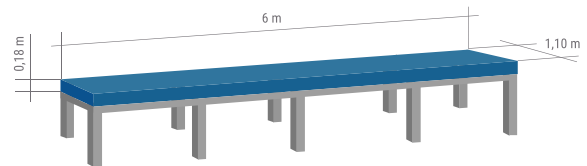
DENSITY OF ICE: 917 Kg/m³

AIR HOLES COEFFICIENT: 0,5

LOST HOLES COEFFICIENT: 0,9

Example for **6 metres of linear counter** with a width of **1.18 metres** and an estimated ice height of **18 cm**.

$$\text{KG OF ICE NEEDED} = \frac{(6 \times 1,1 \times 0,18) \times 917 \times 0,5}{0,9} = 605,22 \text{ KG}$$



Note: These kg of ice are calculated for a first counter preparation.

For the kg of ice you need per day, please take into account the refills and the bin with which the machine will be combined.



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