



**Recom**

**ICE SYSTEMS**

**Catalog**

**Containerized ice plants**

## Preface

Recom Ice Systems is a manufacturer, supplier and provider of high quality industrial ice equipment to a wide variety of industries throughout the world. As a European organization we are able to provide equipment that is designed and tested to European standards. Recom's offering is unique in that we are able to provide turn-key solutions for ice production, ice storage, ice delivery, ice weighing, ice dosing and ordering. This means we can be your partner for complete ice plants, providing you with not only the ice machine, but also other logistical ice solutions.

Recom's product range consists of machines with a production capacity ranging from half a metric ton up to sixty metric tons per day. This wide range is one of the reasons we have a long history of serving both small and large client organizations with their ice requirements.

We look forward to doing business with you.

Stef Bouhuijs  
*CEO Recom Ice Systems*



## Containerized ice plants

Recom containerized ice plants are designed as turn-key solutions for all of your industrial refrigeration needs. Containerized ice plants are modular units, combining ice production containers with storage containers and operate & control containers. Containerized ice plants can be highly customized based on customer preferences. In addition ice plants can be completely automated by means of the Recom Internet Ice Plant Portal (RIIPP). With RIIPP you have complete control over your industrial ice production plant and all of the attached processes.

- Fully tested and approved before shipment
- Modular system, easy to install
- Controlled by a Siemens PLC 1200 with touch screen
- Optional cloud based RIIPP solutions
- Containers are temperature controlled
- Build in 20ft or 40ft containers
- Fitted with an evaporative condenser
- Screw or semi hermetic piston compressors
- High performance under heavy conditions
- Easy to combine with Recom IS-series ice storages
- Refrigerant: R449/R448/R507/R452a/NH3

## Harbour

To maintain freshness, freshly caught fish should be cooled to around 0 °C straight away. An increasing number of harbours understands this and makes the decision to invest in an ice plant. Recom Ice Systems' Harbour Solution from the Arctic Ice Series offers a complete package for ice production, storage, delivery and weighing, as well as our **RIIPP** payment and registration system.

- One or more plants up to 90 tons per day per unit
- Ice storage of up to 150 tons capacity per unit
- Ice transport systems screw or pneumatic with capacities of up to 30 tons per hour
- Pneumatic or continuously belt weighing systems
- Supervision and commissioning
- Siemens PLC Controlled with real time monitoring
- Optional cloud based **RIIPP** solutions



## Case story

### Stornoway Port Authority - Scotland

Situated 30 miles off the north west coast of Scotland the Port of Stornoway is the main seaport of the Hebridean Island chain and provides a vital link to mainland Britain.

The Stornoway Port Authority has asked Recom to supply a 15 T/day flake ice installation complete with ice storage, delivery, weighing and **RIIPP** ordering system. Recom designed, delivered and installed them with a complete ice plant. The ice plant is equipped to deliver ice to either fishing vessels or trucks, and the entire installation is controlled using the **RIIPP** system. Allowing smooth running and operations of the entire plant.

- CF150ET-5 containerized ice plant 15 T/day
- IS20 containerized ice storage 20 tons, complete with internal rake system
- SIW ice weighing 250 kg/m
- SID10 screw delivery 10 T/hr
- **RIIPP** Recom Internet Ice Plant Portal

## Concrete cooling

The quality of concrete can benefit greatly from the use of flake ice. The large amount of thermal energy storage in the sub cooled flake ice dampens the temperature rise as a result of which, the time between mixing and pouring may be increased, thus offering more flexibility to overcome situations of long distance or high ambient temperatures. Recom Ice Systems will help you co-engineer the complete ice factory.

- One or more plants up to 90 tons per day per unit
- Ice storage of up to 150 tons capacity per unit
- Ice transport systems screw or pneumatic with capacities of up to 30 tons per hour
- Ice weighing systems to accommodate the batching process
- Water chiller to pre-chill the filtered river water, also for direct mixer use
- Day tanks
- Supervision and commissioning
- Siemens PLC Controlled with real time monitoring
- PLC is connected with batching plant PLC



## Case story

### Inshaa - Saudi Arabia

Inshaa Co. for Concrete Products & General Contracting Ltd. is a Saudi Arabian company whose main activity is the production of (ready-mix) concrete for building structures and infrastructural projects.

Recom has supplied them with a 80 tons per day flake ice machine with evaporative condenser, a 75 tons storage solution and a 16 tons per hour screw delivery system. Our equipment has been combined with Liebherr batching plants in order to produce concrete for numerous infrastructural projects.

- CF800ET-5 80 tons per day containerized flake ice machine
- IS-75 75 tons modular storage solution
- SID16 16 tons per hour screw delivery system

## Artificial snow

Recom snow making equipment can be installed at large ski resorts, theme parks and other attractions. Recom has developed an artificial snowmaking machine that uses flake ice, which will subsequently be crushed into powder and can be pneumatically delivered to the slopes. This technique creates a high quality powder barely distinguishable from real snow.

Recom delivers turn-key solutions for each project. Whether it being an efficient and easily installed containerized plant, or a delivery based on custom made lightweight components for more challenging environments.

- Not affected by climate
- Between 15 - 500 tons per day
- Continuous snowmaking
- Up to 200 meter transmission distance
- High operating efficiency
- Low temperature, soft, dry, big granule
- Full automatic control of the snow making machine and conveying
- Small and easily installed modular machines



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## Case story

### Nevis Range Mountain Resort - Scotland

Nevis Range Mountain Resort is one of 5 major ski resorts in Scotland. Due to its location and relative limited altitude there is much uncertainty regarding its snow quality and levels. In order to extend their business season and increase their snow certainty, they have asked Recom Ice systems to supply them with a turn-key solution.

Because of the difficult geographic of the Nevis Range, the installation is air lifted into position. Due to the weight restrictions the decision has been made to first construct a building to where the separate components have been flown by chopper. This installation will provides the Nevis Range with a total of 77 tons of snow per day.

- 7 x F100AS-5 Flake ice drum, with separated refrigeration system
- 2 x U-shape open horizontal screw
- 2 x Flake ice crushers
- 2 x AID 5 T/hr pneumatic air blower
- Complete with delivery and installation

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# Ice storage

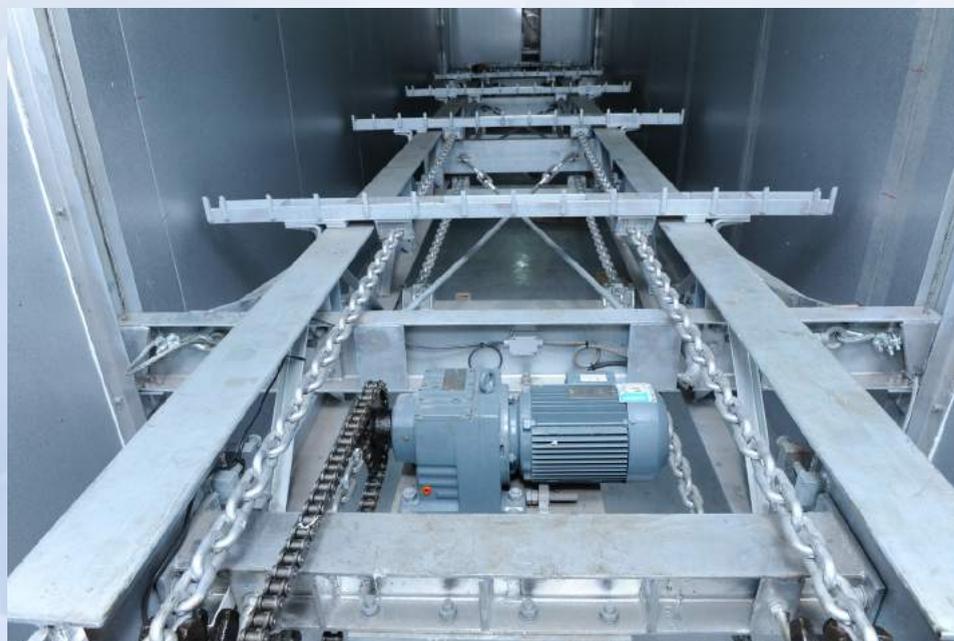
## Rake system

For the containerized automatic ice storage of flake or plate ice Recom offers pre-engineered and refrigerated standardized ice storage solutions in capacities from 9 tons of ice up to 20 tons of ice. For modular automatic ice storage Recom offers capacities up to 200 tons of ice.

## Screw system

Recom also offers a containerized screw outlet storage. This automated stainless steel unit runs on a first in, first out principle. This pre engineered and refrigerated storage solution is suitable for up to 5 tons of ice.

- Separate electric control box
- Refrigerated
- Included support base frame
- Additional hoist screw



Model	Storage capacity	Type	Storage temperature	Approx. ship weight	Approx. dimensions (L x W x H)
IS5-SP	5 Tons	Modular screw storage	-5/-6°C	7000 kg	3600 x 1785 x 3700 mm
IS20	20 Tons	40ft Insulated container	-5/-6°C	12000 kg	12240 x 2438 x 2896 mm
IS35	35 Tons	Modular cold storage	-5/-6°C	10000 kg	12200 x 4130 x 3175 mm
IS50	50 Tons	Modular cold storage	-5/-6°C	12000 kg	12200 x 5190 x 3000 mm
IS70	70 Tons	Modular cold storage	-5/-6°C	13000 kg	12200 x 5190 x 3800 mm
IS90	90 Tons	Modular cold storage	-5/-6°C	16000 kg	15000 x 5190 x 4200 mm
IS100	100 Tons	Modular cold storage	-5/-6°C	18000 kg	15000 x 5190 x 5100 mm
IS200	200 Tons	Modular cold storage	-5/-6°C	23000 kg	15000 x 9800 x 5500 mm

# Ice delivery & weighing

## Ice delivery

Recom ice systems offers two different types of delivery systems, namely screw delivery and air delivery systems. The screw delivery system is most suitable for short distance distribution, whereas air delivery is mostly used for longer-distance distribution. All of our systems work in conjunction with our ice production, ice storage and ice weighing systems.

## Ice weighing

Recom supplies two different versions of weighing systems. The screw weighing system, and the belt weighing system. The ice weighing systems are fully automatic and made of stainless steel combined with food safe materials. The weighing systems can be mounted behind the horizontal screw outlet of the IS-storage or connected after the outlet of the screw delivery system. They are able to weigh the ice with extreme accuracy and high speeds as well as in a continuous flow with our belt weigher. The installation can be fully connected with the **RIIPP** system in order to create a fully integrated system and optimal production overview.



Model	Ice delivery capacity	Type	Angle	Power consumption	Diameter	Max. delivery distance
SID10	10 T/hr	Spiral	0-30°	7,5 kW	250 mm	15 m
SID15	15 T/hr	Spiral	0-30°	7,5 kW	300 mm	15 m
SID20	20 T/hr	Spiral	0-30°	11 kW	300 mm	12 m
SID25	25 T/hr	Spiral	0-30°	11 kW	350 mm	12 m
AID6	6 T/hr	Air	0-30°	7,5 kW	100 mm	200 m
AID15	15 T/hr	Air	0-30°	15 kW	125 mm	180 m
AID20	20 T/hr	Air	0-30°	20 kW	180 mm	160 m
AID30	30 T/hr	Air	0-30°	30 kW	180 mm	150 m

Model	Ice weighing capacity	Type	Power consumption	Approx. ship weight	Approx. dimensions (L x W x H)
PIW55	550 kg	Pneumatic	1,5 kW	350 kg	1304 x 1004 x 1682 mm
PIW65	650 kg	Pneumatic	1,5 kW	450 kg	1304 x 1004 x 1942 mm
PIW75	750 kg	Pneumatic	1,5 kW	550 kg	1304 x 1004 x 2202 mm
PIW85	850 kg	Pneumatic	1,5 kW	850 kg	1304 x 1004 x 2462 mm
SIW25	200 kg	Spiral	1,5 kW	650 kg	2106 x 650 x 1353 mm
SIW30	250 kg	Spiral	1,5 kW	850 kg	2106 x 650 x 1523 mm
SIW35	300 kg	Spiral	1,5 kW	1100 kg	2106 x 650 x 1693 mm
SIW40	400 kg	Spiral	1,5 kW	1500 kg	2106 x 650 x 1863 mm
SIW80	800 kg	Spiral	3 kW	1700 kg	3000 x 1500 x 1400 mm
SIW150	1.500 kg	Spiral	3 kW	2200 kg	3000 x 1500 x 2300 mm
SIW200	2.000 kg	Spiral	3 kW	3500 kg	3500 x 1500 x 2600 mm
SIW300	3.000 kg	Spiral	3 kW	4000 kg	4000 x 2000 x 2500 mm





## More information

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