



**ROSEN** ICE PLANT

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ICE PLANT

www.roseniceplant.com



Cooling Tower for Ice Machine

Why cold concrete;

Limitation of the fresh concrete temperature is a significant prerequisite for a high-quality of the concrete. For batching plants with a medium to high concrete output per day, the use of ice and cold water to control the temperature is particularly economical.

Even more efficiency is provided by the cooling systems from Rosen; Due to the unique technology for producing ice and cold water, maintenance effort is minimal. Flake Ice Plants daily capacities from 20 to 120 tons per unit and Water Cooler Systems daily capacities from 120 to 480 tons per unit are available.



Platforms and stairs for full plant



Ice Machine

- Advantages of working with Rosen;
  - 24/7 after-sales customer support,
  - Production in ISO9001 and CE and European Standards,
  - Fixed design in standard shipping container,
  - Ease of installation and commissioning,
  - Remote control and camera system,
  - User friendly,
  - Ease of maintenance and spare parts,
  - Made in Turkiye.

Ice Weighing Unit

Screw Conveyor for Ice Delivery

Screw Conveyor for Ice Delivery

Ice Rake Storage Unit

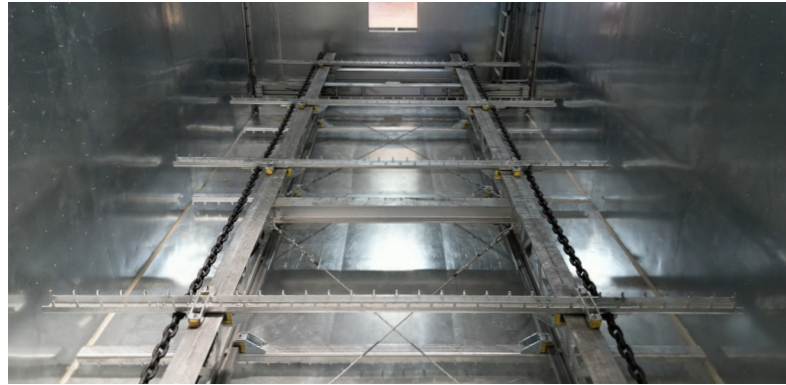
Ice Weighing Unit





## ICE PLANTS

NO:	PRODUCT NAME:	DAILY CAPACITY (x1000KG):	COMPRESSOR (HP):	TE(°C):	REFRIGERATION CAPACITY (Kcal):	WATER INLET:	WATER SUPPLY (T/DAY):	INSTALLED POWER(KW):	POWER CONSUMPTION (KW/H):
1	FIM20T	20	100	-23	132558	1"	20	90,6	67,6
2	FIM40T	40	200	-25	265116	1"	40	174,1	128,1
3	FIM50T	50	250	-25	331395	1"	50	222,6	165,1
4	FIM60T	60	300	-25	397674	1"	60	260,1	191,1
5	FIM80T	80	400	-25	530232	1"	80	348,2	256,2
6	FIM100T	100	500	-25	662790	1"	100	453,4	338,4
7	FIM120T	120	600	-25	795348	1"	120	528,4	390,4



### FULL AUTOMATIC ICE RAKE SYSTEM

Full automatic ice rake systems are equipped with a conveyor system and an air cooling unit. The ice is produced in a double-walled insulated container before the storage system. After the electrical connections are completed, the ice rake system and ice storage unit are ready for use.

### AUTOMATIC ICE WEIGHING SYSTEM

Ice weighing systems are manufactured with an ice carrying capacity of between 200 kg and 500 kg, depending on the ice needs of the batch. The weighing system automatically collects ice from the ice distribution conveyor, then transfers the required amount of ice to the aggregate conveyor. The system is connected to the batch automation and is automatically controlled by the control room.



### SCREW CONVEYOR FOR ICE DELIVERY SYSTEM

Screw conveyors help to transport ice from the ice storage to any location. If desired, we can integrate an aggregate conveyor, an ice weighing automation system. Or it can deliver directly to a water tank or an aggregate belt. The length of the conveyor can be produced from 3 meters to 12 meters according to the customer's request. The conveyor is covered with flexible insulation.



## ICE PLANTS

### What is icy water?

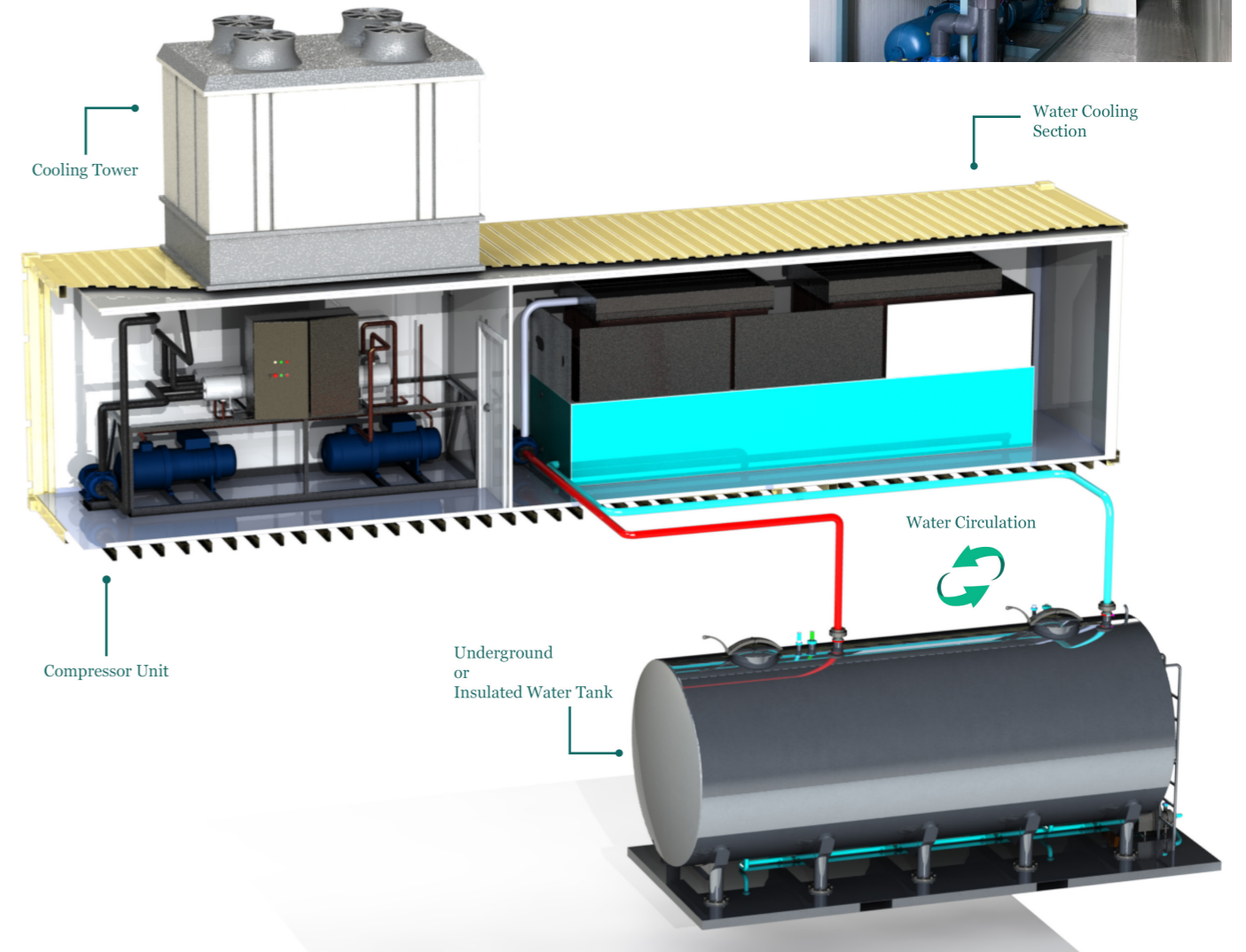
It is a new technology invented by Rosen Company in 2009 as the best solution for Concrete Batching Plants. It is a type of water cooling system that can reduce the water temperature of serious tonnage water capacity up to 50 tons per hour from an average of 35°C to 0.5°C. Its content is a small amount of ice pieces in cold water. It is the best and optimum cooling system for Concrete Batching Plants. In general, our 5 tons, 10 tons, 15 tons and 20 tons per hour models are preferred.

### What are the differences from other cooling systems?

Classic water cooling systems (such as Chiller) can only reduce the water temperature by 10°C. However, icy water technology can reduce the water temperature to 0.5°C thanks to the ice pieces in it.

It has higher performance and capacity compared to chiller systems.

It also has low cost and ease of use compared to flake ice systems.





FROM TURKIYE TO OVER 88 COUNTRIES!

# ROSEN

I C E P L A N T

You can visit us in our factory  
to see our machines in person.

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139 Sok. No:51  
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IZMIR/TURKIYE

Our sales team is ready to answer all  
your questions about the Concrete  
Cooling Industry.

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You can follow our products  
and references on our website.

[www.rosen.com.tr](http://www.rosen.com.tr)



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