

# Industrial series

*ECO-friendly system for vessels and on-land processing*



- **Eco-friendly slurry ice system**
- **Runs on ammonia**
- **Customized turn-key solutions**
- **Full chilling control**
- **Capacity up to 240 tons of slurry/day**



**Thor Ice** has developed a new industrial series for land based applications and large installations at sea, based on a new refrigeration circuit design, using a new version of **Thor Ice** slurry ice generators.

The new industrial series uses ammonia with a self-circulating refrigeration concept based on injectors feeding ammonia to the generators. This design has led to an increase in COP of more than 27% over traditional designs, while at the same time resulting in low maintenance and reliability.

The industrial series and the **Thor Ice** slurry ice concept have been rigorously tested and have shown results that have never been gained before with other methods and machines.

## The background

**Thor Ice** carried out extensive trials in the spring of 2011. The main objective was to find how rapidly slurry ice would chill salmon and how well controlled the process could be carried out.

Whitefish, salmon producers, and pelagic factories are well aware of the need for rapid chilling and needed a system that could consistently chill the fish to the correct temperature and guarantee best results every time.

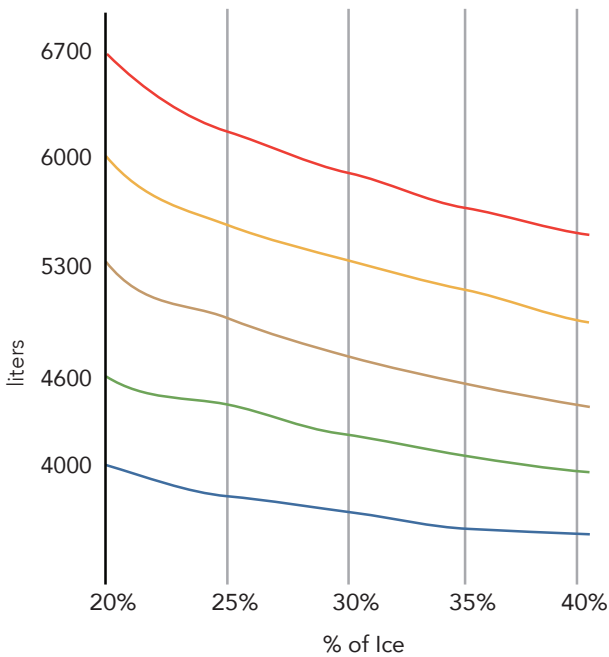
The results from the trials were very promising and led to an order of the largest system **Thor Ice** has produced to date. The technology is a turnkey system, packed into a 40-foot container, delivering 7-10 tons of slurry ice per hour, using eco friendly refrigerants and tuned to give the greatest effect for the least power consumption.



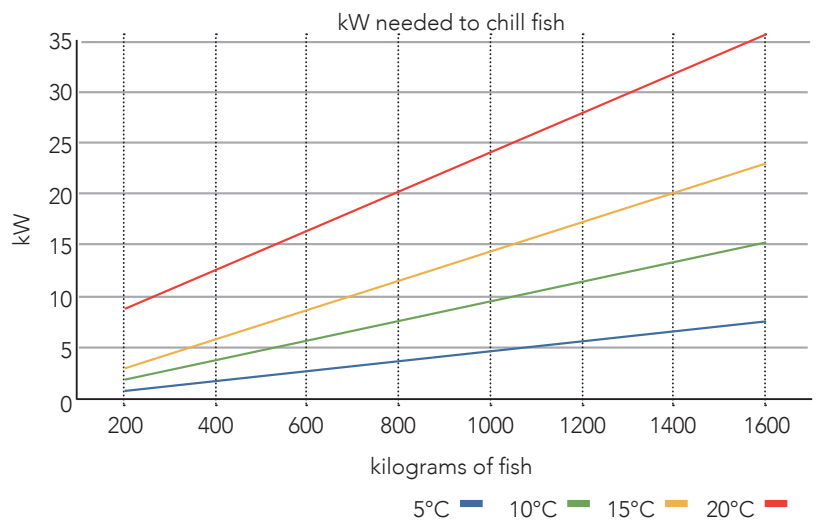


The **Thor Ice** series are also available in frame units which can be fitted to existing refrigeration systems or older ice machines, creating a “hybrid” system. This delivers a cost-effective solution.

	Capacity (kW)	Power (kW)	Capacity (Liters / Hour)	Voltage	Phase	Frequency
S-2400	72	36	1800 – 12.000	400	3	50 / 60
S-2800	84	42	2100 – 14.000	400	3	50 / 60
S-3200	96	48	2500 – 16.000	400	3	50 / 60
S-3600	108	59	2800 – 18.000	400	3	50 / 60
S-4000	120	60	3100 – 20.000	400	3	50 / 60



S-2400 — S-2800 — S-3200 — S-3600 — S-4000



**Thor Ice** designs and manufactures slurry ice systems and machines for chilling of raw material in all major food processing industries. **Thor Ice** machines are developed by and in close cooperation with Icelandic fishermen and fish processing companies, institutions and scientists.

**Thor Ice** offers sizes from the smallest on-board machines on the market to large eco-friendly industrial units.

**Thor Ice** expertise and knowhow in the chilling of raw material secures longer shelf life.

What effect does rapid chilling have on gaping?

