

The logo for Searef, featuring the word "Searef" in a bold, blue, sans-serif font. A horizontal line is positioned above the letters "e", "a", and "r". A small "TM" trademark symbol is located to the upper right of the letter "f".

**Searef**<sup>TM</sup>

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## Searef

Searef equipment has over the last decade been established as the most requested refrigeration equipment for cargo hold refrigeration in fishing vessels in Sweden.

We have our own factory and supply the largest fishing boat yards in Sweden.

### Searef cargo hold refrigeration

Cargo holds at sea are facing extremely difficult conditions especially regarding corrosion. When refrigeration and moistening of fish is required at the same time, problems are faced. We developed the idea to switch from traditional systems made out of copper and stainless steel to systems made out of polymeric materials. We realized that, in addition to very good refrigeration properties, other advantages occurred such as:

- Easier installation – standardized units for quick installation.
- Low degree of frosting – less defrosting operations needed.
- Electric defrosting possible with complete defrosting in less than two hours giving better usage of the capacity of the equipment.
- Reliable and durable equipment.
- Low weight.
- Environmentally friendly, secondary refrigeration system with low charges of environmentally friendly refrigerants/heat transfer liquids and recyclable materials.
- Better quality of caught fish – higher price on catch!

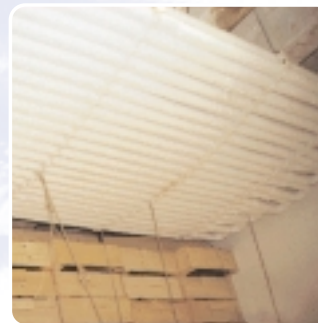
# Searef™



Effective cooling, necessary for high product quality.



Kennedy, in which our cargo hold refrigeration equipment, was installed four years ago.



An effective installation. The cooling pipes with the fishing boxes wedged, seen from below.

## Kennedy – New – Easy

When Jonas Klingander, owner of the fishing vessel Kennedy, decided to install cargo hold refrigeration, he choose, on recommendation from Övarvet (Swedish shipyard) to install our refrigeration system.

After three years of usage Mr Klingander states:

*“At first I was sceptic to install plastic piping in my ship, but the possibility to shape the installation according to the shape of the ship, and then seeing how well both cooling and defrosting works, I am entirely positive. The cooling capacity is more than enough even if the cargo hold is not isolated. Another fact is that we can wedge the fish boxes under the pipes which are more or less unbreakable makes me happy to recommend this technology to my fishing colleagues and their vessels.”*

### Standard solutions...

We can offer standard solutions in three different sizes according to refrigeration needed. They have been developed to offer quick installation. There is no need of trained refrigeration technicians. All is assembled in our ownfactory and shipped out to the customer/shipyard. It is easy to mount the refrigeration equipment and the piping, and finally connect them.

### Or flexible...

One vessel is never the same as another. We can of course customise the systems according to special requirements such as space and capacity. In complicated installations, we will assist you at the installation.

Other advantages:

- Easy to connect air-condition.
- If you need to increase the capacity – it is easy to expand.



The installation is as simple in new built ships as in older ships.

## Choose your solution

Here you can compare the three standard units according to the needs that you have with respect of cooling capacity in kW:

	S1000	S2000	S3000
Cooling capacity	6,5	9,5	10,5–16,5



Compact units – easy to install.