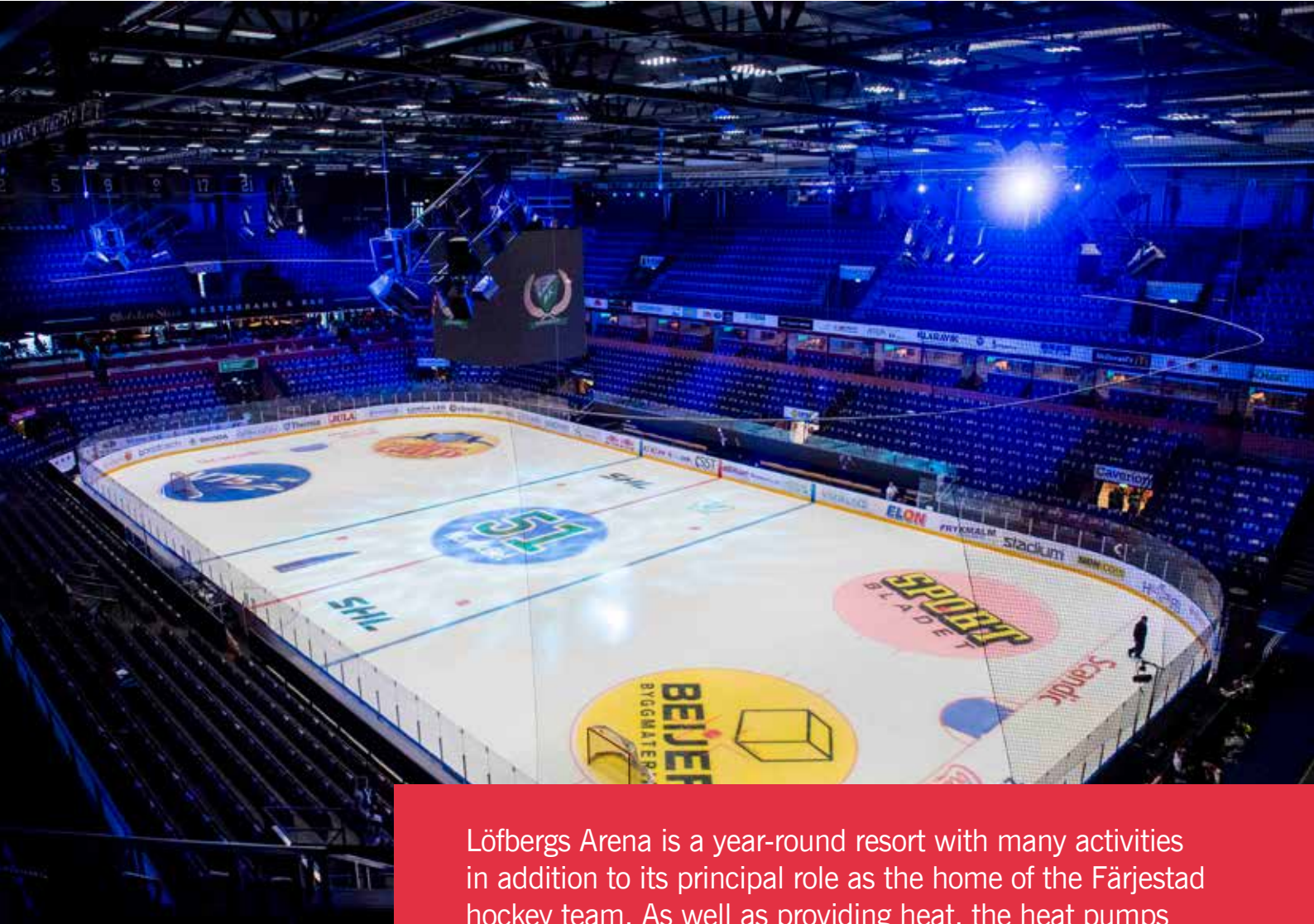


## Thermia heat pump for the Löfbergs arena



Löfbergs Arena is a year-round resort with many activities in addition to its principal role as the home of the Färjestad hockey team. As well as providing heat, the heat pumps provide comfortable coolness in the summertime for the office, conference guests and fitness facilities.

Four Thermia Robust heat pumps, each with a capacity of 42 kW, were installed in the Lofbergs arena in Karlstad in 2012. The heat pumps both warm the huge buildings and cool the ice in the main arena and the training hall. Before the installation of the heat pumps, annual costs for

district heating exceeded 1.5 million SEK. The arena and related buildings cover more than 10,000 m<sup>2</sup> and savings since installing the Thermia heat pumps have been huge – reducing energy costs by more than 45%.



**Type of building:** sport arena

**Location:** Karlstad, Sweden

**Applied solution:**  
Thermia Robust 42 kW x4

**Heat pump ground source collector using low temperature supports icerink in freezing**

**Functions:**  
heating, cooling and domestic hot water

*“We chose Thermia heat pumps because they are an optimal and reliable solution. This initiative is part of a larger project to improve energy efficiency, which is important both for the economy and for the environment”, explained Stefan Jonsson, Arena Manager.*

Färjestad BK is one of the most successful hockey clubs in Sweden, playing in 19 league finals and winning nine Swedish league championships, including four since 2002. Ice hockey is a very popular sport in Sweden, both in terms of active participants and spectators.

*“Heat pumps have proved to be one of the club’s best investments ever. The energy savings achieved will allow us to spend the money*

*we save on things that are important for our development”, commented Färjestad club director Hakan Loob.*

The capacity of the arena is 8,647 for hockey matches and 10,300 for concerts, making it Sweden’s sixth largest indoor arena. The stadium cost 160 million SEK to build and was officially inaugurated on 15 September 2001.



*‘Heat pumps are one of the club’s best investments ever. The energy savings will allow us to go ahead and spend the money on things that are important for our development.’*

**Färjestad club director Hakan Loob.**

## **THERMIA** **THE ULTIMATE** **ENERGY PROVIDER SINCE 1923**



### **Pioneering heat pumps**

For the last 50 years, we have dedicated all our resources and knowledge to developing and endlessly refining one product: the heat pump. Our focus on geothermal energy has given us world-leading knowledge in heat pump technology.



### **Engineered with passion**

Developing truly sustainable renewable energy solutions can only be achieved with passionate, dedicated and uncompromising experts. Some of Europe’s most highly qualified engineers can be found in our own R&D center.



### **Born in Sweden**

All our products are designed, manufactured and tested in Sweden using the latest technology and the highest quality components. We are proud to count world-leading industry specialist, Danfoss, among our technology partners.