



# Insulation of heat exchangers

Maximum energy efficiency – also in the case of small wall thicknesses  
Produced for Gemina Termix A/S

Insulating  
foam

**TINBY**

Snaveej 6-10, DK-5471 Søndersø, [www.tinby.dk](http://www.tinby.dk)  
Quality | Security of Supply | Technology | Competitive prices

## Gemina Termix – a wide product range

Gemina Termix has a wide product range. The company manufactures large as well as small plants; from few kW district heating plants that are typically used for dwellings and single-family houses, to large compact stations generating several mW. The company has a leading position on the Danish market and a major export share – a success that is mainly due to their basic desire for continuous innovation.

## Production centre dedicated to the insulation of heat exchangers

Tinby A/S assumed the responsibility for the production of the insulating part of Gemina Termix' heat exchangers when the company decided to outsource this task. The insulating part of the heat exchangers is thus moulded at Tinby A/S' works in Denmark, where a production hall was re-organised and equipped with a layout that precisely meets the requirements for this production, thereby also ensuring maximum flexibility and quality for Gemina Termix.

## Maximum energy efficiency

Black insulating foam with a density of 110 g/l is used for the insulation of the heat exchangers. Because PUR is one of the available insulating materials that has the best chemical, thermal and mechanical properties, it is possible to achieve maximum energy efficiency – also in the case of small wall thicknesses. The practical lambda value is about 0.028 W/mK. The insulation also acts as a protective "cabinet" around the heat exchanger parts.

## What the customer says

"When we decided to move the production of the insulating parts of our heat exchangers to an external manufacturer, we chose Tinby. Termix' district heating units are Danish through and through, so it was natural for us to choose a Danish supplier for the job. Moving a production is a rather complex and quite challenging type of job, but we managed to handle these challenges and the production now runs smoothly and satisfactorily. Tinby was very helpful when we were facing urgent requests for fast delivery. In general we are very happy with the cooperation."

Anders Knudsen, Production Manager  
Gemina Termix A/S

**GEMINA TERMIX**  
Member of the Danfoss Group

## Facts about polyurethane

- Density approx. 110 g/l insulating foam
- Lambda value approx. 0.028 W/mK
- Solid and impact-resistant
- Withstands temperatures up to 120°C
- Resistant to fungus growth and rot
- Does not emit any vapours and does not cause any risk to the environment