

TECHNOLOGY COMPETITION FOR SINGLE-FAMILY DETACHED HOUSES WITH ELECTRIC RESISTANCE HEATING

Appendix B Description of demonstration house

This technology competition aims to develop and demonstrate new cost- and energy-efficient integrated heating and ventilation systems for single-family detached houses with electric resistance heating as the existing heating system. The design of the systems in the technology competition shall be based on demonstration houses that meet the following criteria:

- Year of construction 1970
- 130 m² (A_{temp}/Heated floor area)
- Electric resistance heating
- Natural ventilation
- Single-story house without a basement
- Located in or near Luleå, Stockholm or Malmö

The climate of each of the specified locations is different, which affects the energy and power requirements of the building. One competition entry can be applied for one or more locations. Different competition entries can also be submitted for each location.