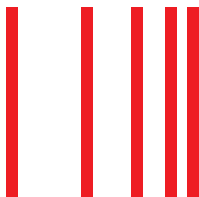




adapterm.
Simple, good value energy-saving.



The intelligent way to
reduce consumption.

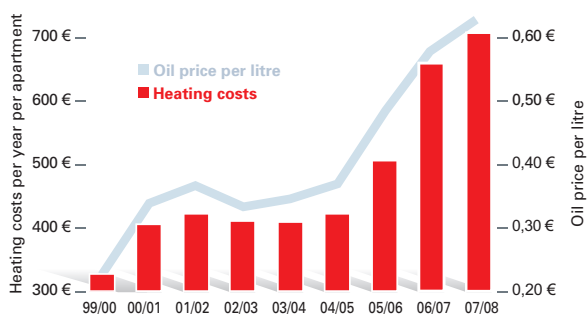
Economical. Simple. Good value. Saving energy with adapterm.

Operating costs for properties also rise with increasing energy prices.

Take active countermeasures - with adapterm, Techem's intelligent energy-saving system.

Master current challenges using adapterm.

In general, fuel is becoming more and more expensive and not only oil. This development directly effects operating costs for properties. The expenditure on heating energy has by far the largest share of ongoing expenses. So energy-saving is top priority. Our solution: adapterm.



The development of the oil price and heating costs
Source: Techem energy reference figures for 2008.

The principle is simple. The effect staggering.

adapterm is an intelligent energy-saving system for all houses already equipped with or to be equipped with Techem's radio heat cost allocators. Simply coupled to the heating control unit, it adapts the heat production of your heating system to the actual heat requirements in your building. adapterm thus lowers energy consumption and costs at the same time lastingly.

For everybody who thinks economically.

Classical redevelopment measures to reduce energy consumption in buildings are both complex and expensive. adapterm offers you a simple and, above all, good value option.

Irrespective of the size of your building, the system is economically viable right from the start. The running costs are reduced noticeably, thus enabling you to increase the value and attractiveness of your building. For fewer empty apartments and durable security of the assets. Moreover, you present yourself as a modern supplier with adapterm, reacting to modern requirements and banking on innovative solutions in the interests of the inhabitants. With convincing results: improved energy efficiency of the housing space and unchanging high comfort for the inhabitants.

Advantages which will convince you.



Energy consumption drops.

adapterm reduces heating energy consumption directly after commissioning – on an average about 10 %. Scientific studies document this.*



Comfort remains high. The inhabitants heat as usual and enjoy the desired heat.



The saving effect is verifiable. Via monthly adapterm reports, you are regularly informed of the energy savings achieved by adapterm.



Your heating is cleverer than you think.

The adapterm module uses information already provided by the modern Techem radio heat cost allocators.

Intelligent energy use.

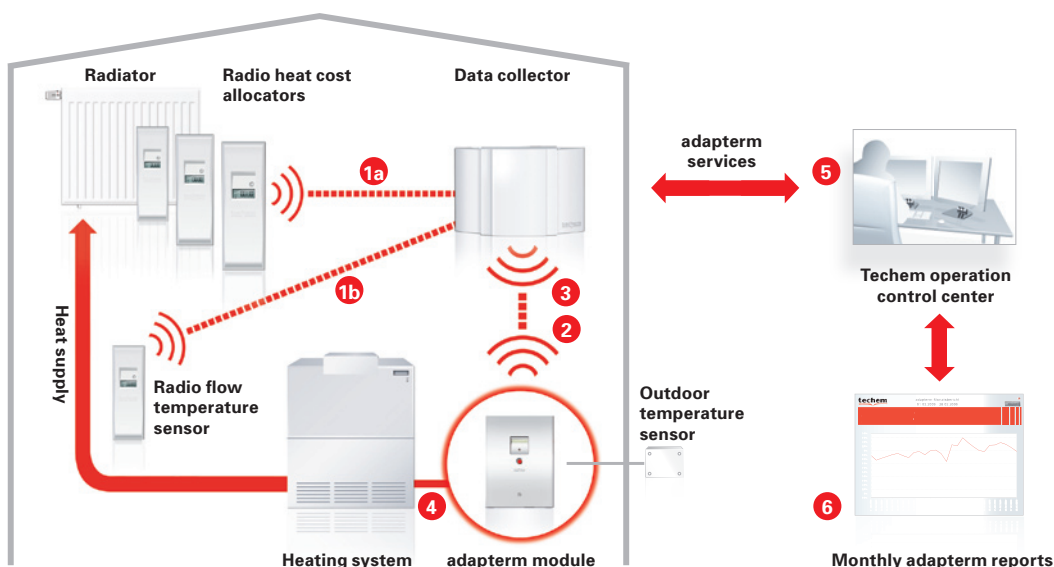
Even new and technically fault-free set-up heating systems mostly do not make efficient use of their potential. Because their controls are always directed at the maximum heat requirements expected in the house. This causes unwanted heat which remains unused, but must be paid at a high price.

On the other hand, adapterm ensures that your heating system always only produces the heat which is also genuinely needed. Independent of whether you heat using oil, gas or district heating – adapterm adapts the heating performance constantly to the actual requirements in the building. The result: the flow temperature is reduced and the pipe heat loss lowered.

Your heating never stops learning.

The data taken by adapterm as a basis for optimising the heating output are already recorded today by Techem's modern radio heat cost allocators. Data collectors receive these values and inform the adapterm module of the current heat requirements in the building.

The adapterm module is connected directly to the heating system, ensuring that the flow temperature is always set optimally. Thus, energy is saved without the inhabitants having to do without the comfort they are used to.



- 1 The data collector gathers the summarized temperature data from the radio heat cost allocators (1a) and the heating system's flow temperature data (1b). Based on this information, the data collector determines the total heat demand in the building.
- 2 The adapterm module determines the outdoor temperature (from the heating controller or via sensor) and sends it to the data collector.
- 3 Based on all the information received, the data collector calculates whether there is an oversupply of heat in the building. If so, it sends a correction value for the reduction of the flow temperature to the adapterm module.
- 4 The adapterm module lowers the flow temperature to its optimal level.
- 5 Via radio remote access, the Techem operation control center ensures the adapterm system operates properly and efficiently.
- 6 Via monthly adapterm reports, customers are regularly informed of the energy savings achieved in their buildings by adapterm.

Techem – worldwide at your service.



Techem Energy Services GmbH
International Markets
Hauptstraße 89
D-65760 Eschborn
Tel. +49 (0) 6196/522-2380
Fax +49 (0) 6196/522-2958
www.techem.com