

Refrigeration and Heat Pump Technology



Smart Cooling

The Easy Way to Reduce Your Refrigeration Costs



## Smart Cooling

# The easy way to reduce your refrigeration costs

### **Energy-efficient refrigeration technology pays off, for the environment and for your business**

When setting up a new refrigerating system, pay particular attention to the life cycle costs. Operating costs generally amount to eight to ten times the investment costs, so it is important to plan, design and operate your refrigerating system energy efficiently. By doing so, you are also helping the environment.

Even if you are already operating a system, it is worth thinking about steps to reduce its operating costs. Even small measures often pay off.

Experts from the refrigeration sector have put together their expertise and experience for you in information material.

The information material is part of the activities of the interdisciplinary Working Group for Energy Efficiency of Refrigerating Systems. Its aim is to ensure that planners, plant engineers, owners and operators pay attention to the issues of efficient refrigeration at all times.

Use of this opportunity to reduce costs and increase your competitiveness. You will find an overview of the information material below.

# Energy efficiency of refrigerating systems

## Information material

### Information No. 1

#### Good Planning Saves Money: Tips for Building Contractors

Information on reconstruction, restoration and new construction

### Information No. 2

#### Basic Principles – Guidelines for Planning Refrigerating Systems

Information on planning economical, reliable and energy-efficient refrigerating systems

### Information No. 3

#### Guideline with Measures for Optimizing Refrigerating Systems

Instructions, tips and information for operators and contractors

### Information No. 4

#### Energy-Efficient Refrigeration: How to Approach it

Sensitization of employees, responsibility for the refrigerating system and annual refrigeration check

### Information No. 5

#### Cold rooms and Frozen Food Storage Rooms: Energy-Efficiency Tips

Measures for reducing cooling demand and energy costs

### Information No. 6

#### The Annual Refrigeration Check: Tips for Energy-Efficient Operation of your Refrigerating System

Savings potential for your refrigerating system

### Information No. 7

#### Maintaining your Refrigerating System

Higher energy efficiency and lower operating costs through regular and proper maintenance of your refrigerating system

The information material can be downloaded as PDF files and printed from the website [kwt.vdma.org/energieeffizienz](http://kwt.vdma.org/energieeffizienz).

The information is compiled in cooperation with the refrigeration industry (VDMA, Forschungsrat Kältetechnik e.V., especially the companies GEA Refrigeration Germany GmbH and Güntner GmbH & Co. KG, Bundesinnungsverband des Deutschen Kälteanlagenbauerhandwerks (BIV), cold storage operators (VDKL) and technical service corporation (TÜV SÜD Industrie Service GmbH)).

In cooperation



**VDMA**

Air Handling Technology  
Refrigeration and Heat Pump Technology

Lyoner Str. 18  
60528 Frankfurt am Main

Phone +49 69 6603-1277  
Fax +49 69 6603-2277  
Email [karin.jahn@vdma.org](mailto:karin.jahn@vdma.org)