

Energy Efficiency of Refrigerating Systems – Information No. 4

Energy-Efficient Refrigeration: How to Approach it



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Increase awareness of your staff

Saving energy does matter to everyone:

Make it clear to your staff that using energy sparingly is an important concern.

The Information No. 5

“Cold and Freezer Rooms: Energy-Saving Tips”

(This information should help your staff which moves refrigerated goods in and out of cold and freezer rooms and the person responsible for the temperature settings in the rooms.)

gives you some important energy-saving tips for your staff.

The recommendations of the document “Guidelines for Planning Refrigerating Systems, Point 10: Commissioning, Optimization, Operating Manual” are also to be taken into account.

Choose one person who is responsible for your refrigerating systems

Clear responsibility and competences are essential if refrigerating systems are to be run efficiently and in compliance with the law.

Choose a person who is responsible for the refrigerating systems They might be a competent janitor or a trained member of staff.

If you have not concluded a maintenance contract with a Refrigeration, Air Conditioning and Heat Pump Contractor, you should at least conduct the annual Refrigeration Check.

Arrange for the annual refrigeration check to be conducted

The refrigerating system should be checked thoroughly and systematically once a year. Commission the person responsible for the refrigerating system to do this. He should use the annual refrigeration check (five steps to an optimized refrigerating system) and the “Guideline with Measures for Optimizing Refrigerating Systems” for the check. Define a month for conducting the annual refrigeration check.

The information sheets

“The Annual Refrigeration Check”

(The annual refrigeration check leads systematically through the refrigerating system. It shows how the energy demand can be reduced and thus how refrigeration can be achieved efficiently, and includes suggestions for where action is needed.)

and

“Guideline with Measures for Optimizing Refrigerating Systems”

(In the “Guideline with Measures for Optimizing Refrigerating Systems”, the person responsible for refrigerating systems will find instructions and information on how sub-optimum settings can be corrected and defects resolved.)

give you important energy-saving tips.

You will find more information on energy and cost efficiency at www.kwt.vdma.org/Energieeffizienz.

The recommendations on “Energy-Efficient Refrigeration: How to Approach it”

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- are based on the form and content of the SVK document “Die teuersten Bauherrenfallen und was man dagegen tun kann”.
- provide recommendations for refrigerating system operators and refrigeration experts on how to save money through good planning.
- increase awareness of planners, installers and operators of refrigerating systems for the topic of energy efficiency and help them enhance their skills.
- have been compiled in cooperation with the refrigeration industry (VDMA, Forschungsrat Kältetechnik e. V., cold store operators (VDKL) and technical service corporation (TÜV SÜD Industrie Service GmbH)).

In cooperation





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