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1 way

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Danfoss provides state-of-the-art control components and systems for energy-efficient home heating.

With our technical expertise, application knowledge and detailed understanding of consumer heating needs, we help you get the best solutions available.

Start saving today

Contact your local installer or visit heating.danfoss.com to discover more about our energy-efficient solutions.

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Building **comfort** and **efficiency** into your home

Danfoss offers the ultimate energy-efficient heating solutions for your home. Our products increase the comfort of your home, reduce bills and make your heating system easier to manage. Mix and match products to suit your needs – and enjoy the benefits of maximum comfort using minimum energy. Make life easy – use Danfoss for energy efficiency and comfort.

Up to 75%

energy saving potential
with solutions from
Danfoss.



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MAXIMUM COMFORT USING MINIMUM ENERGY



Combination means convenience

Danfoss energy-efficient products can be effectively combined to work with each other to create even greater savings. Regardless of your current heat source, where you live or how much you can afford, there is a Danfoss solution to match.

Optimize for greater savings

Energy optimizing is about creating the best possible supply and flow of energy around your house. For example, en-

suring that energy savings achieved with a new heat control system are not wasted due to inadequate insulation. Optimizing is not just about choosing the right heat source, but also about regulating it properly with an effective control system.

Controls ensure the efficiency of your heating system by maintaining the right temperature, pressure and flow needed to achieve the level of comfort

and convenience you desire. In optimizing your system, you need to think about several elements, including the size of your home, how it is insulated, how much maintenance it needs and available heat sources in your area. A well-adjusted heating system is one of the easiest ways to reduce energy consumption and achieve significant savings.

Minor renovations, replacements and upgrades

This table is your guide to planning the most energy-efficient renovations, replacements or upgrades for your home. Based on your available energy source and desired investment level, the table shows you exactly what combination of elements will help you find the optimum solution.

	Relevant scenario	Recommendation	Energy saving	Information	Investment
	When you have an oil-fired boiler.	Replace the old oil nozzle and remove soot from the oil-fired boiler.	4%	Maintenance means savings. Annual replacement of the oil nozzle, adjustment of the combustion and removing soot from the oil-fired boiler optimizes combustion and reduces oil consumption.	● ● ● ● ○ ○ ○ ○
	When you have a condensing boiler.	Introduce balancing.	10%	Improve balance so that the boiler always operates in optimal condensing mode.	● ● ● ● ○ ○ ○ ○
	When you have a condensing gas boiler.	Replace the dial room thermostat with a programmable room thermostat.	10%	Via the advanced time-proportional control program in the programmable room thermostat, the gas boiler is kept longer in its condensing mode. The boiler is most efficient in condensing mode.	● ● ● ● ○ ○ ○ ○
	When you have electric floor heating.	Install thermostats with intelligent timers.	20%	The right temperature at the right time in your electrically heated floor.	● ● ● ● ○ ○ ○ ○
	When you have hydronic floor heating.	Install individual wireless room control for hydronic floor heating.	15%	The desired temperature at the right time.	● ● ● ● ○ ○ ○ ○
	When you have radiators.	Replace manual valves or old radiator thermostats with electronic thermostats.	23/46%	By replacing old thermostats with our new electronic ones, you can save 23% of energy used. By replacing manual valves with new living by Danfoss products, you can save 46%.	● ● ● ● ○ ○ ○ ○
	When you have district heating, oil or gas boiler.	Install a weather compensator and let the heat supply reflect outside temperatures.	15–40%	Ensures that the heat source delivers the right temperature to the radiator or floor heating system.	● ● ● ● ● ○ ○ ○
	When you want easy-to-install heating in your floor for improved comfort.	Install electric floor heating controlled via programmable thermostats or remote controller.	25%	Fast-reaction floor heating systems. The rapid response of the systems provides the desired temperature in minutes, providing energy savings, reduced costs and optimized comfort.	● ● ● ● ● ○ ○ ○
	When you want fast-reacting floor heating for improved comfort in your home.	Install SpeedUp™ light hydronic floor heating, directly below the floor surface, controlled via programmable CF2™ control system.	25%		● ● ● ● ● ○ ○ ○
	When you want improved indoor air quality with almost no heat loss.	Install a heat recovery ventilation system.	20%	All air is exchanged at least every 1/2 hour, controlling the humidity. Heat in the exhaust air is recovered.	● ● ● ● ● ● ● ●
	When you want a greener and more energy-efficient heat source.	Replace inefficient oil or gas boiler with air/water or ground/water heat pump (alternative with district heating).	50–75%	Highly efficient compared to traditional energy sources, heat pumps can help achieve massive savings.	● ● ● ● ● ● ● ●

Major renovations or new build

To make life easier for you, we have pre-defined some product packages for major renovations and new builds. Please speak to your installer for further information.

Basic package ● ○ ○	Advanced package ● ● ○	High performance package ● ● ●
Contains high-performance, self-acting stand-alone components. Compared to electronically controlled products, this limits the options for controlling the heating system. Limited control means reduced comfort, convenience and energy savings, but you can still expect to see significant improvements over current performance.	The advanced package contains more electronically controlled products than the basic package. Electronic products can be controlled more effectively and also enable scheduling. Scheduling means ensuring the right temperature at the right time and thereby achieving comfort and energy savings.	Includes a central control and display. Not only does this enable convenient, central control and scheduling of heating, it also enables products to 'talk' together so that the entire system is optimized as a whole. As an example, a heat pump can be electronically integrated with the floor heating system and radiator thermostats. By knowing the demand for heat inside your home, the heat pump only produces the exact amount of energy needed.

The products in the three packages differ depending on the energy supply available. Please ask your installer for advice.

TAKE CONTROL WITH INTEGRATED SOLUTIONS

1central

control. Danfoss Link enables easy scheduling and optimization of the entire system via intelligent communication across products.



$1 + 1 = 3$

Danfoss Link controls a whole range of devices, including radiator thermostats, hydronic and electric floor heating devices and heat pumps. It regulates heating throughout your home – simply, effectively, wirelessly and from one central point.

As a central interface for the entire heating system, Danfoss Link enables 'heat scheduling'. This ensures that individual room temperatures will always match the need at any given hour of the day. Danfoss Link also enables the Danfoss heat pump, floor heating and thermostats to 'talk' together. By knowing your home's exact need for heat, the Danfoss heat

pump is always running in an optimal way, providing additional energy savings and comfort due to fewer temperature fluctuations.

Control and balance

The key to providing greater comfort and reduced energy consumption is to ensure that the temperature in your heating system matches your heat requirements. This can be done effectively by energy-efficient stand-alone components. By adding electronic controls – such as weather compensators, radiator thermostats and floor heating controls – you can do it even better.

Comfort is in the air

Fresh air and 'cooling' are often just as important as heating. Heat recovery ventilation systems are vital in new buildings to ensure fresh air and minimize energy consumption. If you are renovating and insulating your home, you will probably experience problems with moist air and a lack of fresh air, as your house becomes 'tighter', with less air entering from outside. Heat recovery ventilation is the ideal solution to this problem.

A good heat recovery ventilation system not only ensures an optimum indoor climate: it also allows for so-called 'passive cooling' in the summer.

1stop shop

Assemble your Danfoss information here

