



**District Cooling with Danfoss -  
the Clean and Comfort Way**

# District cooling - the alternative solution from Danfoss

The district cooling system replaces the traditional air-conditioning system. The district cooling plant sends cold water through a pipe network to the buildings.

This will create both economic and environmental benefits. The district cooling system offers operating flexibility, since each building can use as much or as little cooling as needed, without worrying about air-conditioner size or capacity.

The installation will be very comfortable and convenient for the customer, with the possibility of having the same supplier for electricity, heating and cooling.

A district cooling system can reach an efficiency rate typically 5 or even 10 times higher than a traditional local air-conditioner.

## The benefits and reasons for success in District cooling:

### For society:

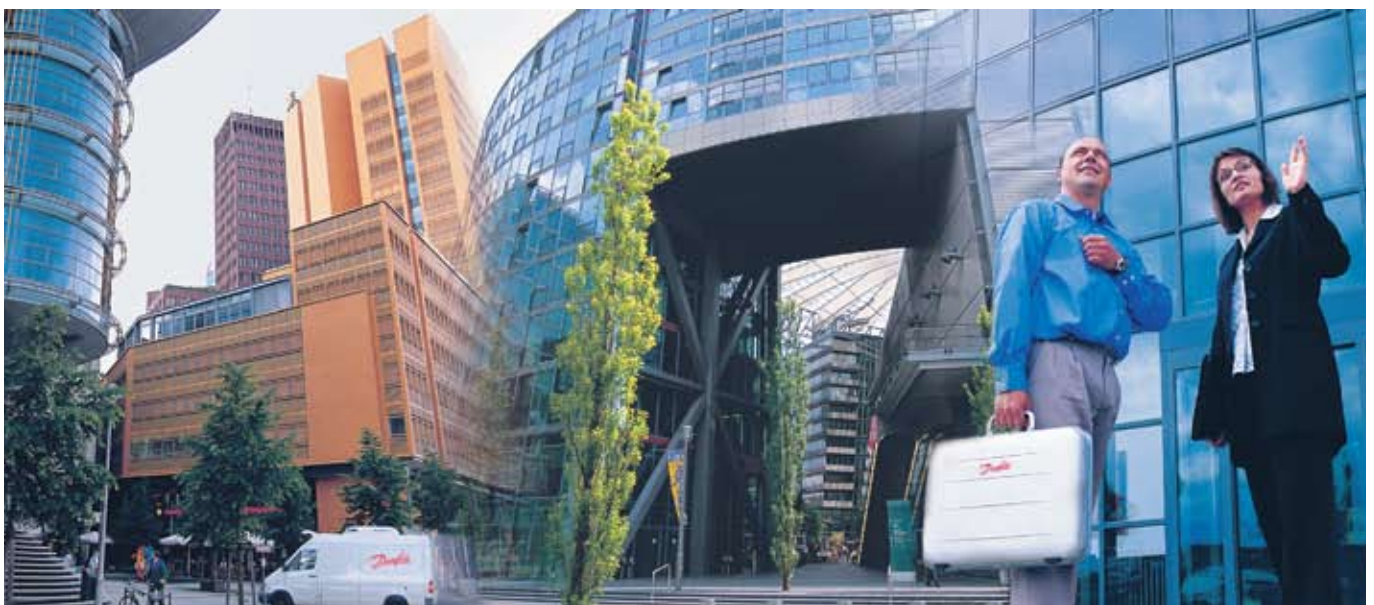
- Protection of the environment and welfare by improved energy efficiency
- Achieve 50+% potential of reduced CO<sub>2</sub> emission and hazardous refrigerants
- Security of supply by avoids investments in summer electricity peak capacities

### For utilities:


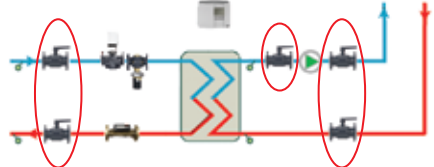

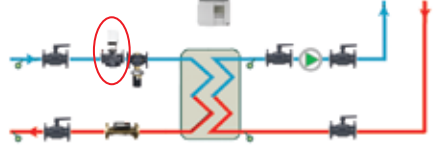

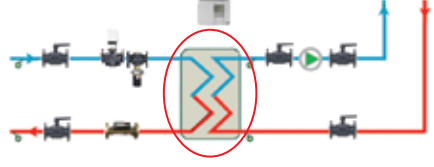

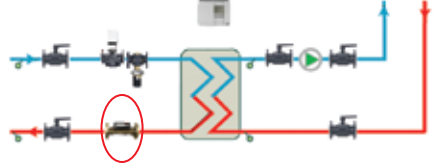

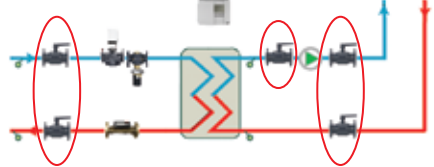

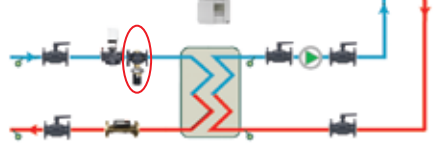

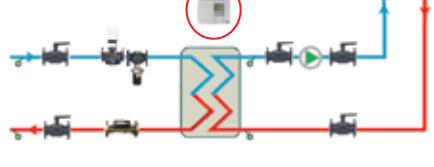

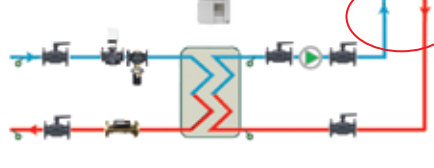

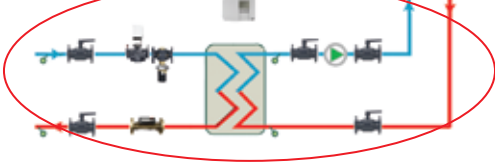
- Competitive product that gives long term stable business
- An innovative energy service to attract new and existing customers. It fits perfectly into Corporate Social Responsibility
- Lower CO<sub>2</sub> outlet

### For property owners / customers:

- Increased end-user comfort
- More economical way of cooling
- Compact installation, which frees up space for other purposes in the building
- Less or no noise as from a traditional air-conditioning system



Danfoss District Heating provides a complete range of automatic controls, heat exchangers and substations needed throughout the process of generating and distributing heat or cooling to homes and buildings. Our products contribute to individual comfort, reduce energy consumption as well as providing reliable and lasting operations and guarantee minimum servicing.

Product range		Features	Applications
Ball valves		DN 15 - 600	
Motorized control valves		DN 15 - 250	
Heat exchangers		10 KW - 4 MW	
Heat meters		DN 15 - 1.200	
Butterfly valves		DN 15 - 300	
Differential pressure controllers		DN 15 - 250	
Weather compensators & temperature sensors		Cooling & heating applications	
Flat stations		10 KW - 100 KW	
Substations		50 KW - 10 MW	



## Danfoss has long experience in controlling heating and cooling applications

### **Dedicated to District Energy**

At Danfoss, we are committed to finding the right solution for district heating and cooling systems for all our customers – whatever the size, needs or requirements.

We are the only total supplier of substations, domestic hot water systems and automatic controls for the district heating and cooling market.

Our 360 degree, fully-integrated business approach is the result of more than 30 years of specialization within district energy, and it is based on an unparalleled range of competencies.

### **At Danfoss we are able to offer you benefits like:**

- A comprehensive and competitive product portfolio for district cooling and district energy

- Innovative products and solutions
- A global business partner with local sales and service support
- Long-term experience within heating and cooling



## Danfoss district cooling references:

Spain	Electronic controls for floor cooling. Ball valves in a range of DN600. Differential pressure controls
	Flat- and substations in the range from 20 KW to 1.800 KW
Denmark	Substations in the range from 15 KW to 1.200 KW
Netherlands	Flat station for heating and cooling combinations
Germany	Electronic controls for floor cooling
Italy	Electronic controls for floor cooling
Norway	Substation in the range from 200 KW to 1.800 KW
Sweden	Substations in the range from 70 KW to 300 KW, heat exchangers from 50 KW to 200 KW
Finland	Substations from 300 KW to 8.000 KW, heat exchangers in the range from 200 KW to 1.500 KW
Dubai	Differential pressure controls from DN100 to DN200, motor valves

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