Hydronic floor heating control

Danfoss *Icon*™
Made to match
your switch frames

230 volt room thermostats for hydronic floor heating and other applications with actuators.

21.5°

Fits

**into compatible
switch frames from
manufacturers such
as Busch-Jaeger, Gira,
Berker and Merten.**

Matches the switch frames
Complements the interior

———

The Danfoss *Icon*™ room thermostat has been designed to blend in with any interior. This is why we consciously chose to make it look like most common switch frames.

When not in use, the room thermostat display turns off and becomes virtually invisible. When the screen is touched, the display comes to life instantly and displays the current room temperature.

Build it into a switch frame

To achieve a perfect match between thermostat, light switches and electrical sockets, Danfoss *Icon*™ can be easily fitted into many of the most popular switch frames.

You can find an overview of compatible switch frames at:

**icon.danfoss.com**

Berker Q3 frames   Merten M-plan frames   Gira E2 frames

In-wall or on-wall?

If the Danfoss *Icon*™ room thermostat fits into the junction box, we recommend choosing the in-wall version. With a depth of only 11 mm and 80 x 80 mm square, it effortlessly blends in with the interior design scheme.

The on-wall version is the ideal choice if the junction box is not compatible or not present. At just 25 mm in depth and 86 x 86 mm square, the on-wall version is no more obtrusive than a standard light switch.

In-wall

On-wall

Simple or advanced
Matches every preference

Danfoss *Icon*™ room thermostats are available in three different versions – each with its own individual set of features ranging from basic to advanced features.

Learn more at:

icon.danfoss.com

Danfoss *Icon*™ programmable

For those who want to set desired temperature, see current temperature and schedule different temperatures during the course of the day. Also enabled for cooling and floor sensor.

Main features

- Touchscreen control
- Icon-based navigation
- Noiseless switching
- Available as in-wall and on-wall
- Can control actuator on radiator
- Valve exercise
- Up to 5x2W NC or NO actuators
- Temperature range limitation

- 230V
- Seven pre-defined schedules
- Adaptive learning
- Input for cooling and central 'away' function
- Optional floor sensor (separate product code)

Danfoss *Icon*™ display

For those who want to set the desired temperature and see current temperature.

Main features

- Touchscreen control
- Icon-based navigation
- Noiseless switching
- Available as in-wall and on-wall
- Can control actuator on radiator
- Valve exercise

- Up to 5x2W NC or NO actuators
- Temperature range limitation
- 230V

Danfoss *Icon*™ dial

For those who simply want to set the desired temperature.

Main features

- Available as in-wall and on-wall
- Up to 5x2W NC or NO actuator

- Temperature range limitation
- 230V

Use scheduling to **save energy**

The Danfoss *Icon*™ programmable room thermostat enables you to automatically change the room temperature throughout the day. The adaptive learning feature turns the heating on at precisely the right moment to achieve the desired temperature at the scheduled time. Every degree the temperature is lowered **saves 5% of energy use**.

Bear in mind that changing the temperature in a room with standard hydronic floor heating may take several hours.

Pre-defined scheduling

The programmable Danfoss *Icon*™ room thermostat features seven pre-defined schedules that can be selected at the touch of an icon. This eliminates the tedious business of setting up schedules, improves comfort and contributes to reducing energy use. The chosen schedule can be overridden at any time by simply pressing the "Away", "At home" or "Asleep" icons.

21°C

17°C

Arrived home early?
> Press "At home" icon

Or change the temperature for "At home" mode?
> Press "At home" icon again

Leaving early?
> Press "Away" icon

Or change the temperature for "Away" mode?
> Press "Away" icon again

Going to bed early?
> Press "Asleep"

Or change the temperature for "Asleep" mode?
> Press "Asleep" icon again

Want to schedule the week or access other settings?
> Press "Setting" icon

Easy installation
Functional design

To make your life easier, Danfoss *Icon*™ has been designed to save time at all stages of installation and use:

· Easy installation by simply snapping the front module onto the rear module. If necessary, the angle of the frame can be slightly adjusted to compensate for inaccurate junction box installation

· UV-resistant plastic

· Glossy surface for easy cleaning

· Settings such as heat emitter type, temperature range limitation and actuator type are performed via the display, making adjustments and troubleshooting easier than having to use jumpers on the back of the product, for example.

In-wall

Front module
50x50 mm.

Placed inside the wall frame and snapped onto the rear module. Holds the wall frame in place and makes it possible to adjust the angle for perfect aesthetic result.

Wall frame
80x80 mm.

Can be exchanged with any compatible switch frame.

Rear module

Connected with wires and mounted inside a junction box.
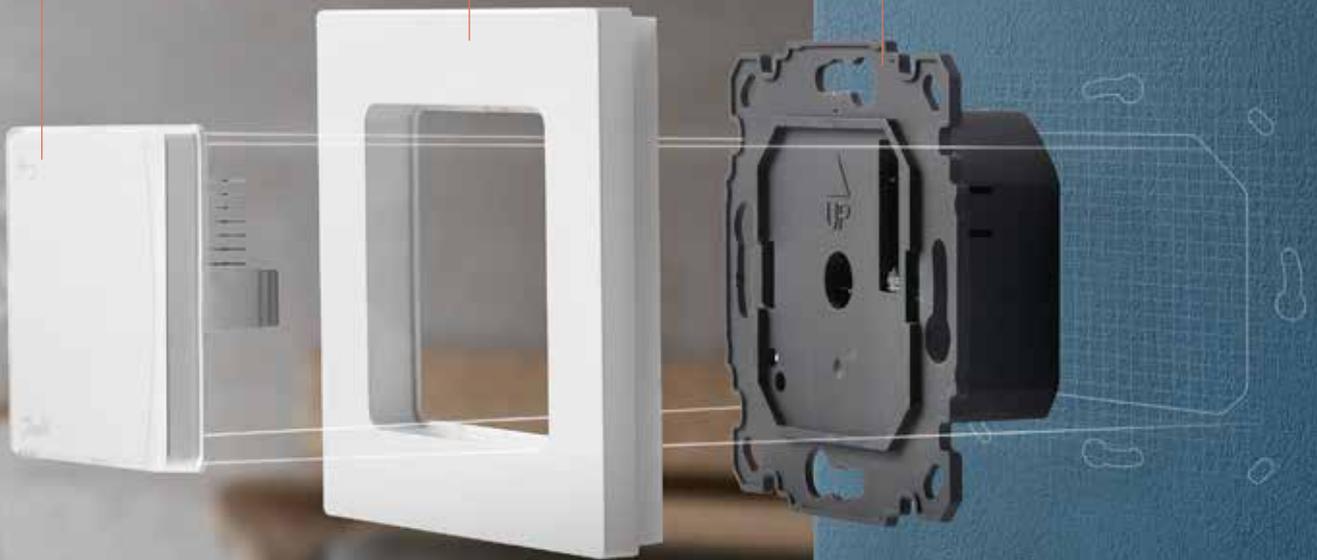
On-wall

Front module
50x50 mm.

Place inside the frame
once this is snapped
onto the rear part..

Frame
86x86 mm.

Snap the frame onto
the rear part
Cannot be exchanged
with other frames..

Rear part

Mount the rear part on the wall
or on top of a junction box and
connect the wires to the terminal.

Everything you need
from a single supplier

Full range of hydronic floor heating components
The Danfoss product range includes every single component you need to build your floor heating system.

On top of that, Danfoss offers a comprehensive range of control components for use in both residential and commercial buildings.

Contact us today and let us know what you need for your project. One call is all it takes.

Room controls
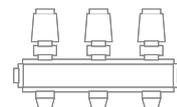
Manifolds
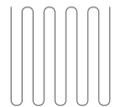
Pipes

Actuators
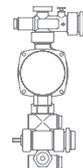
Mixing shunts
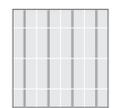
Floor heating panels

230V Danfoss *Icon*™
room thermostats

Danfoss *Icon*™ room thermostats		Code	In-wall	On-wall	Temperature limitation	Fits into switch frames	Noiseless switching	Floor sensor enabled	Pre-defined scheduling	Adaptive learning	Cooling input[1]	'Away' input[1]
	230V Dial	088U1000	●		●	●						
	230V Display	088U1010	●		●	●	●					
	230V Programmable	088U1020	●		●	●	●	●	●	●	●	●
	230V Dial	088U1005		●	●							
	230V Display	088U1015		●	●		●					
	230V Programmable	088U1025		●	●		●	●	●	●	●	●

[1] The thermostat can be set to cooling mode or 'away' mode by switching a phase onto the respective input terminal. The switching can be handled automatically by the cooling source (in case of cooling function) or an external timer module (in case of 'away' function). Alternatively they can be handled manually via a simple switch. The functions are active for as long as a phase is present on the input terminal.
Note: The phase used, must be the same phase that supplies the thermostat.

Accessories	Code	Description
230V thermal actuator	088H3112	RA connection, NC (Normally Closed)
230V thermal actuator	088H3113	RA connection, NO (Normally Open)
230V thermal actuator	088H3142	M30 connection, NC (Normally Closed)
230V thermal actuator	088H3143	M30 connection, NO (Normally Open)
230V connection box	088H0016	With pump and boiler relay[1]
Floor sensor	088U1110	Compatible with Danfoss *Icon*™ programmable room thermostat

[1] Note: if an NO (Normally Open) actuator is connected, the pump and boiler relays cannot be used as their function cannot be inverted.

Learn more at:

icon.danfoss.com

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