

somfy®

ENGINEERING  
TOMORROW

*Danfoss*

# The future of **smart home connection**

A partnership of Danfoss Icon™ underfloor heating and Somfy TaHoma® gateway for an innovative smart home solution.





# Build the **smart homes** of tomorrow

Climate change and technological advances place new demands on modern homes. As a home builder, you are expected to provide connected homes that strike a balance between comfort, regulatory compliance, and cost-effective, innovative features.



## Built for home builders

Together, Danfoss and Somfy offer two key complementary solutions – Danfoss Icon™ and Somfy TaHoma® DIN-Rail – to ensure a complete and innovative smart heating solution. Their dynamic compatibility enables Danfoss Icon™ underfloor heating to be controlled via the TaHoma® gateway and app.

It allows housing professionals to build efficient and user-friendly smart homes that greatly increase the value of new housing on the market.

### Danfoss Icon™

Danfoss Icon™ is the most advanced room-control platform for hydronic floor heating and cooling. The room thermostats resemble a light switch, easily blending in with any interior – and the modular concept of the master controllers offers advanced control options including wireless and wired thermostats.



### TaHoma® DIN-Rail box

The simple and modular Smart Home gateway can be installed in the electrical panel and is operated using the TaHoma® app, which controls the equipment settings of the whole house – such as shutters, blinds, doors and gates, security, cameras, lighting and more.

### Combining the best of two worlds

Danfoss Icon™ and Somfy TaHoma® DIN-Rail offers a co-developed smart home solution that links Danfoss Icon™ with other Somfy devices in the smart home. The result is an intelligent home with smart climate control for all-year-round well-being.



## Position yourself as a builder of the future

Combining Somfy and Danfoss, you can offer connected homes with one app to control a smart climate solution for maximum comfort, all-year-round including shutter control, and heating controls for optimal energy savings.

Choosing Somfy and Danfoss is easy. The presence of both companies on the market ensures high availability, short lead times, and fast support.

You will position yourselves as a 'smart home provider' for little extra cost and without any change to your procurement and installation process. Your local Danfoss and Somfy teams look forward to assisting you in implementing true smart home solutions.

### Offer clear benefits to your end-users

- Control the home from a **single app** – no need for individual apps
- The house follows the same schedule
- All applications follow the owner's lifestyle
- Owners gain full access to their home from anywhere
- Up to **15% energy savings** compared to standard systems
- Financial subsidies for hydronic balancing where available
- TÜV Rheinland certified hydronic balancing\*



\* Additional heating installation components may be required for the feature to function correctly. Please consult Danfoss regarding installation specifics.



# The schematics for a smarter home

Danfoss and Somfy offer house builders a complete package for smart homes that cover every need, from comfort to energy savings and cost efficiency.

## Danfoss Icon™ Wireless Infrared

Wireless infrared room thermostat facilitates excellent comfort in the bathroom even in the warmer months. Keeps the floor warm even when the room temperature rises thanks to the integrated IR sensor.

## Danfoss Icon™ Master Controller

The master controller for a home's underfloor heating system, with automatic balancing, active pump relay, boiler relay, commissioning test, PMW for accurate control, adaptive learning, and other advanced heating control options.

## Danfoss Icon™ Zigbee Module

Communicates to the TaHoma DIN-Rail via Zigbee wireless radio protocol.

## Somfy Motorized Radio Blinds\*

Blinds can be controlled using the Somfy app or they can be automatized to engage at certain temperatures or at pre-set times.

## Danfoss Icon™ 24V

Wired room thermostat for in-wall mounting in light-switch frames.

## Danfoss Icon™ Wireless

Wireless room thermostat for remote areas of the house or extensions allows the positions of thermostats to be changed as desired.

## Somfy Motorized Radio Rolling Shutters\*

Rolling shutters can be controlled from the Somfy app or they can be automatized to engage at certain temperatures or pre-set times.

## Somfy TaHoma® DIN-Rail

Somfy's smart home gateway is designed for new housing and is installed in the electrical panel. Integrated in the building, it has its own offline installation app (Somfy DIN-Rail app) that meets the expectations of both professionals and new home owners. Users can control their equipment via the app to discover thousands of possibilities to make their lives easier.

\*io-homecontrol wireless technology

## Use-cases



If Somfy contact sensors detect an open window, the Danfoss Icon™ system pauses the heating to reduce energy loss. When the window is closed, heating resumes.



If a Danfoss Icon™ room thermostat detects high temperatures during summer time, Somfy TaHoma® will close the shutters or blinds in the room to block out the heat.



Using the app, end-users can change the temperatures for each room thermostat or group them via 'scenarios' to cue actions like 'I am home early' or 'I am away'.



Somfy TaHoma® and Danfoss devices follow the same calendar and adjust their interactions automatically, making the devices easy to use.





## Somfy TaHoma® DIN-Rail

- Simple and modular gateway
- Dedicated to new-builds
- Controls the whole house
- Integrated in to the electrical panel
- Offline installation
- Reliable and open ecosystem
- Easy and intuitive for occupants
- Average 88.7% end-user satisfaction rate



## Danfoss Icon™

- Advanced comfort control for single-family-home and apartment underfloor heating systems
- Up to 15% energy savings
  - Automatic Hydronic Balancing
  - Scheduling for system setback
  - Adaptive learning for optimal heating system start
- Wired or wireless thermostat connection
- In-wall or on-wall mounting
- Switchable thermostat frame for integration with switch clusters
- Possibility for underfloor cooling



## Leave it to the **professionals**

Installation of Danfoss Icon™ and Somfy TaHoma® DIN-Rail is performed by dedicated professionals, ensuring a swift process without costly errors – and minimal effort from the house owner.



### Heating installer's checklist

- ✓ Installation of Icon™ master controller
- ✓ Adding thermostats to the master controller
- ✓ Commissioning the heating system to heat the home without internet connection
- ✓ Connecting the Danfoss Zigbee module next to the master controller



### Electrician's checklist

- ✓ Installation of TaHoma® DIN-Rail in the electrical panel (maximum 4 radio modules)
- ✓ Installation of other smart home devices



### Somfy or partner installer's checklist

- ✓ Pairing the TaHoma® DIN-Rail to all smart home devices
- ✓ Pairing TaHoma® DIN-Rail with the Icon™ system
- ✓ \*Optional\* Introducing the home owner to the system



### End-user activation

- ✓ Activate the TaHoma® system on TaHoma-din.somfy.com
- ✓ Download the app
- ✓ Link TaHoma® to its app with a built-in step-by-step guide



# Engineering Tomorrow

Danfoss engineers the technologies that enable the world of tomorrow to do more with less. We meet the growing need for infrastructure, food supply, energy efficiency, and climate-friendly solutions.

Danfoss continually develops new solutions that ensure pleasant indoor comfort, environmental sustainability, high energy efficiency, and reduced heating costs, as well as easy installation, servicing, and maintenance.

Whether you are building or renovating a new single or multi-family home, there are multiple application options available for smart heating and room temperature control, domestic hot water supply, underfloor heating, energy metering, elevator transport, and frost and snow protection.

[icon.danfoss.com](http://icon.danfoss.com)



## 50 years of innovation

Somfy is the world leader in automatic controls for openings and closures in homes and buildings. Offering a range of motorized solutions and control points, Somfy has been a key player in smart home systems for a decade.

Somfy's leading smart management solutions for homes and buildings are improving people's daily lives for over 50 years. Developed with comfort, ease of use, security and sustainability in mind, its innovations automate and connect rolling shutters, curtains and blinds, gates and garage doors, lighting and heating, alarm systems and more. For every type of home, single-family or multi-family houses, new or existing.

[www.somfy.com](http://www.somfy.com)