

CosyFloor®

Smart Thermostatic Head neoFloThermostat



The Smart thermostatic head neoFlo brings together hybrid technology, merging traditional thermostatic precision with advanced electronic functionality. Designed to work seamlessly with the neoHub and the IMI Heatmiser neoApp, it offers precise temperature control and convenient remote access. The hybrid design ensures consistent thermal comfort, efficient energy use, and long-lasting battery life, making it an innovative and reliable choice for modern radiator heating systems.

Key Features

Hybrid temperature control

The hybrid concept merges over 60 years of dilatation technology expertise with advanced electronics providing long battery lifetime, precise temperature control and silent operation.

System balancing

Hydronic balancing done right. Depending on your building size use the thermal balancing function or couple neoFlo with the Eclipse radiator valve range.

Stand-alone mode

Ideal for first commissioning. Ability to set up temperature and basic scheduling on neoFlo without pairing requirement at the hub.

Easy to install and commission

Compatible with radiator valves featuring an M30x1.5 connection, the neoFlo is easy to commission using a simple button pairing function.

Reduce energy consumption

Save energy using scheduling and holiday functions. Prevent energy waste by automatically detecting a window opening and by starting your heat demand just on time with the optimum start function. Compatible with Smart home systems (Apple HomeKit, Google Assistant, Amazon Alexa, IFTTT)

Technical Description

Functions:

- Room temperature control
- Open window detection activation
- Simple time scheduling
- Boost mode
- Frost protection
- Limescale protection
- Low battery indicator

Configuration via neoHub with IMI Heatmiser neoApp:

- Advanced time schedule functions
- Lock keypad
- Temperature hold
- Open window detection parametrisation
- Pre-heat
- Room offset temperature

Radio contact:

- Radio frequency: 868 MHz (bidirectional)
- Radio signal range: 100 meters (open space)
- Transmission power: 3.06 dB

Temperature:

Setting range: +5°C to +30°C Operating temperature: +5°C to +50°C Storage temperature: -20°C to +50°C Media temperature: +5°C to +90°C

Resolution: 0,5 K

Control accuracy, CA value: $\pm 0,5$ K

Supply voltage:

2/4 x 1,5V IEC LR6 (AA), included in delivery.
Durability: min. 5 years

Connection:

Designed to be mounted on thermostatic valve bodies and radiators with integrated valves which have an M30x1.5 thermostatic insert.

Material:

Housing/Cover: PC (Polycarbonate) Support connection: PA
Setting wheel: ABS

Colour:

Housing/Cover: White RAL 9016 Support connection: Light grey RAL 7035

Noise level:

Operating (commissioning): ~30 dB(A)
Operating: noise free

Ingress protection:

IP 20 (according to EN60529)

Standard:

RED 2014/53/EU RoHS
2011/65/EU EN215
WEEE
REACH

Compatibility:

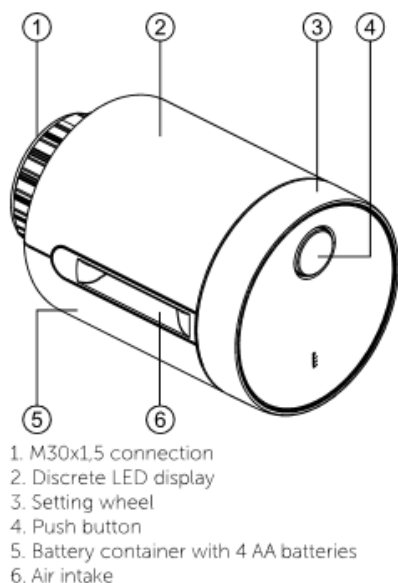
neoHub (3rd generation)

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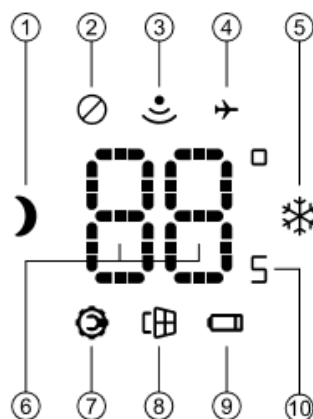
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Construction

The display can be rotated 180 degrees so it doesn't appear upside down. To change the direction of the display, press Push button (4) and turn Setting wheel (3) simultaneously.



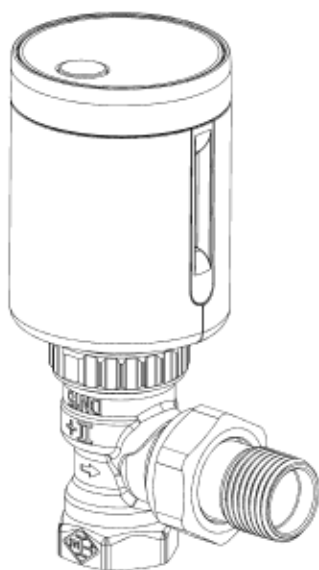
Display



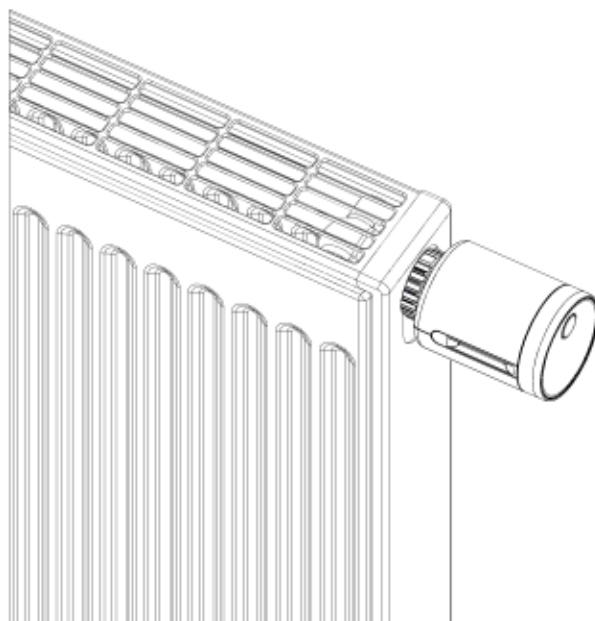
Application example

neoFlo, the Smart thermostatic head, is the perfect solution for both renovation and new dwellings. It secures accurate room temperature management, no matter if used as stand-alone or in connection with the IMI Heatmiser neoApp. The hybrid design ensures consistent thermal comfort, efficient energy use, and long-lasting battery life, making it an innovative and reliable choice.

neoFlo on TRV



neo-Flo on radiator with integrated insert



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Operation

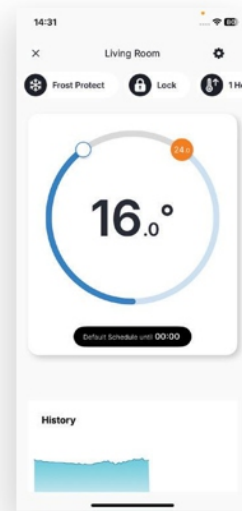
Stand-alone

The neoFlo can be operated manually directly on itself - settings to be changed by rotatable setting wheel with a step of 0,5 °C.



Smart home via IMI Heatmiser neoApp

The neoFlo can be operated with the neoHub via neoApp.



Basic Functions (without neo Hub)

The neoFlo can operate independently without the neoHub, providing essential heating control right from installation. The only requirement is calibrating the radiator valve, ensuring a quick and simple setup. This allows installers to commission the system immediately without relying on network availability.

Manual mode

Users can manually adjust the room temperature by pressing the button to activate the display. When display is activated turn the wheel to select the desired setpoint. The chosen temperature remains active until changed again or overridden by another mode.

Open window detection - Save energy automatically

If the room temperature drops sharply ($\geq 2^{\circ}\text{C}$ in 2 minutes), neoFlo closes the valve for 30 minutes to prevent unnecessary heating. The open window icon appears on the display, and after 30 minutes, the system returns to the previous mode (Auto or Manual). Settings can be adjusted via the IMI Heatmiser neoApp.

Simple time scheduling - Efficient heating

Users can set up to four daily heating periods with different temperatures directly on the neoFlo. This feature helps reduce energy consumption before connecting to neoHub for more advanced scheduling.

Boost mode - Quick heating when needed

Activating Boost mode fully opens the valve for 30 minutes, rapidly warming the room. A countdown appears on the display, and after 30 minutes, the system reverts to the programmed schedule. Users can cancel the Boost early by pressing the pair button.

Frost protection - Prevent freezing pipes

If the room temperature drops below 5°C , neoFlo automatically opens the valve to protect against freezing. The frost protection icon appears on the display.

Valve protection - Prevents limescale build-up

To maintain performance, neoFlo runs an automatic valve exercise cycle once a month, preventing limescale deposits that could affect operation

CosyFloor Smart Thermostatic Head neoFlo Thermostats are available at UFH Supplies Ltd Trading as CosyFloor

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Enhanced functions (with neoHub Gen3 and IMI Heatmiser neoApp)

Connecting the neoFlo to the IMI Heatmiser neoApp via the Gen 3 neoHub enables full remote control and access to advanced settings. Users can adjust temperatures either through the app or directly on the neoFlo, with instant synchronisation between the two.

Auto mode – Smart heating schedule

The neoFlo follows a heating profile based on predefined schedules. By default 5/2 mode (Mo–Fr/Sa–Su):
Mo-Fr: 7:00 - 21°C 9:00 - 16°C 16:00 - 21°C 22:00 - 16°C Sa-Su: 9:00 - 21°C 22:00 - 16°C

Users can modify these settings only through the neoApp. Manual adjustments on the neoFlo remain active only until the next scheduled temperature change. Temperature adjustments range from 5°C to 30°C, in 0.5°C increments.

Holiday mode – Energy saving when away

Users can set Holiday Mode via the IMI Heatmiser neoApp, switching all devices to frost protection until a specified return date. If needed, heating can be temporarily activated for 1 hour directly on the neoFlo.

Adaptive thermal balancing – Even heat distribution

Proper balancing ensures all radiators receive the right flow, improving energy efficiency and comfort. The neoFlo can be mounted on existing radiator valves and automatically adjusts flow to prevent uneven heating. In simple systems, thermal balancing may be sufficient, but for optimised performance, IMI Heimeier offers balancing solutions with static (V-exact II) and dynamic (Eclipse) valves.

Boost mode – Quick heating on demand

Need fast heating Boost Mode fully opens the valve for 30 minutes, increasing room temperature quickly. After 30 minutes the system returns to the previous mode. Users can cancel Boost mode early by pressing the pair button.

Temperature hold – Temporary adjustments

Users can set a specific temperature for a chosen duration outside the normal schedule. Once the hold time expires, the system reverts to the previous schedule or set temperature.

Open window detection – Customisable sensitivity

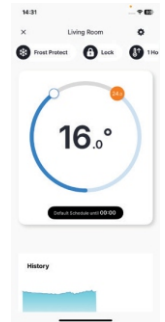
The IMI Heimeier neoApp allows users to adjust the sensitivity level (Low, Medium, or High) and the duration for which the valve remains closed after detecting an open window.

Pre-heat – Ensuring comfort on schedule

With Pre-Heat mode, the neoFlo starts heating before the scheduled time, ensuring the desired temperature is reached exactly when needed.

Offset temperature – Fine-tune room comfort

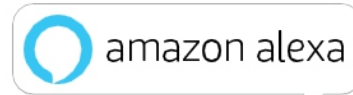
Since the neoFlo measures temperature at the radiator, actual room temperature may vary. Users can apply a temperature offset in a range of $\pm 5K$ to correct this. For example, if 20°C is set, but the room only reaches 18°C, an offset of -2°C can be applied. The default offset is 0°C in the IMI Heatmiser neoApp.



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Smart Home requiring neoHub (3rd generation) connection



IMI Heatmiser neoApp is designed to work perfectly with the neoHub and neo thermostats. Together they present an advanced heating control solution that is perfect for modern lifestyles. IMI Heimeier neoApp supports multi locations and multi users.

What's more, home owners can share full or restricted access to the neo system, perfect for holiday rentals. The Geo Location technology ensures users never heat an empty home, by automatically reducing the temperature when they leave and increasing the temperature when they return.

Enhanced history

Once enabled in the iOS/Android IMI Heatmiser neoApp, the neoApp will show additional history data. This includes the set temperature, room temperature and whether the room was preheating or heating. This is available for each zone for the last 13 months. In addition to the enhanced temperature history, the neoHub will display the hours run for each day for the same period.

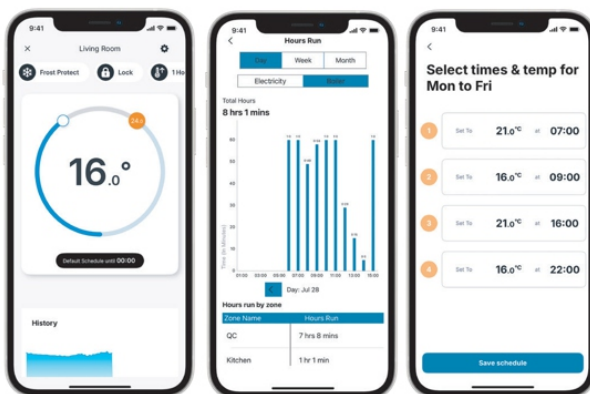
Smart Profiles

Many areas of our homes operate to the same time and temperature settings although they have their own individual thermostat. Smart Profiles are stored in the neoHub and can be quickly applied to multiple zones.

Simple user interface

Our intuitive home screen shows the user at a glance the current state of their heating system as well as the upcoming heating periods

Free to download from the Apple App Store and Google Play Store.



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