

Smart thermostatic head neoFlo

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:

± 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:

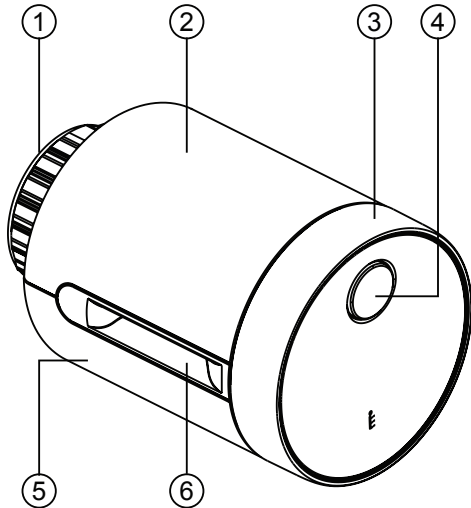
RED 2014/53/EU
RoHS 2011/65/EU
EN215
WEEE
REACH

Compatibility:

neoHub (3rd generation)

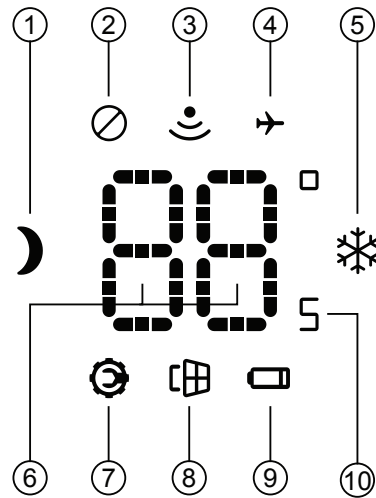
Construction

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.



1. M30x1,5 connection
2. Discrete LED display
3. Setting wheel
4. Push button
5. Battery container with 4 AA batteries
6. Air intake

Display

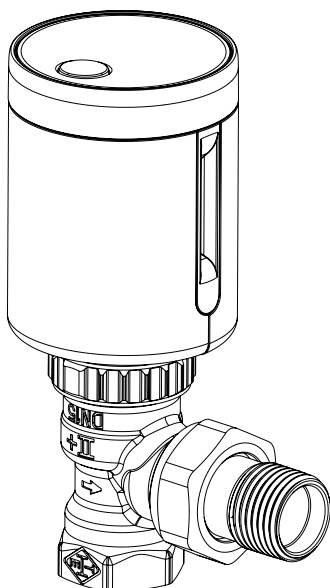


1. Night setback icon
2. Key-lock icon
3. Connection icon
4. Holiday mode icon
5. Frost protection icon
6. Temperature set-point
7. Maintenance icon
8. Open window detection icon
9. Low battery notification icon
10. 0,5K resolution

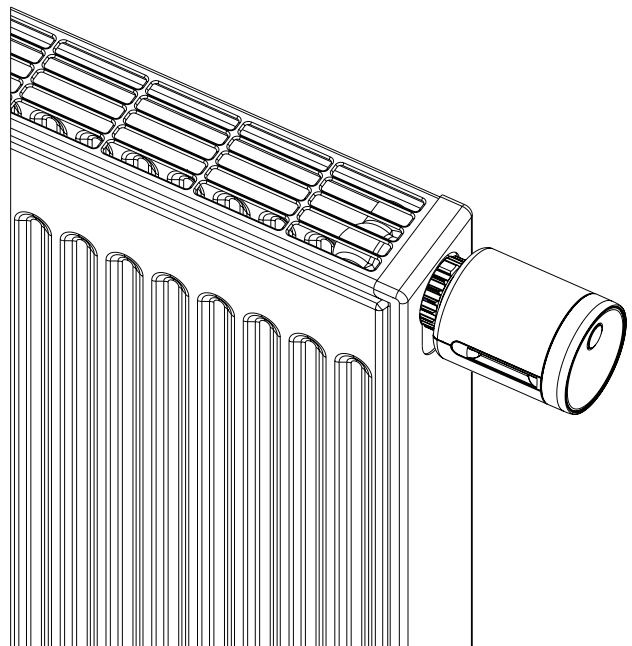
Application example

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



Operation

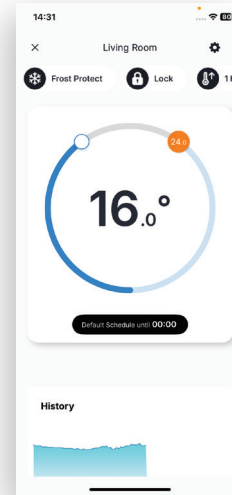
Stand-alone

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 neoHub)

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

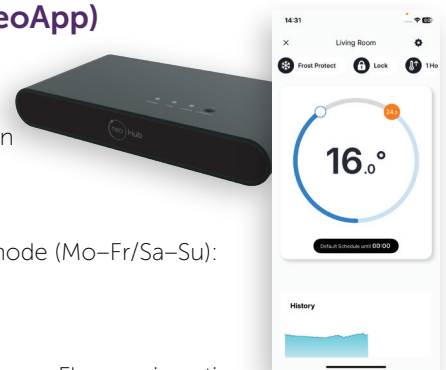
To maintain performance, neoFlo runs an automatic valve exercise cycle once a month, preventing limescale deposits that could affect operation.

Low battery indicator - Long-lasting power

A low battery icon appears when the battery needs replacement. Thanks to hybrid technology, battery life lasts approximately 5 to 6 years.

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

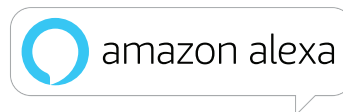
Since the neoFlo measures temperature at the radiator, actual room temperature may vary. Users can apply a temperature offset in a range of $\pm 5K$ to correct this. For example, if 20°C is set, but the room only reaches 18°C, an offset of -2°C can be applied. The default offset is 0°C in the IMI Heatmiser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

Smart Home

Smart Home requiring neoHub (3rd generation) connection



Smart Home applications



IMI Heatmiser neoApp

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.

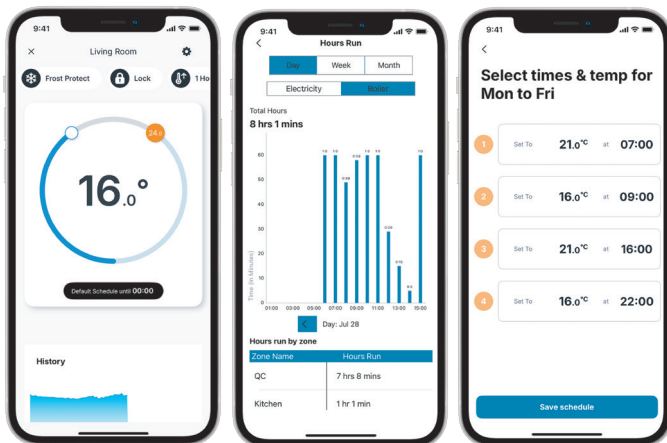
What's more, home owners can share full or restricted access to the neo system, perfect for holiday rentals. The Geo Location technology ensures users never heat an empty home, by automatically reducing the temperature when they leave and increasing the temperature when they return.

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.



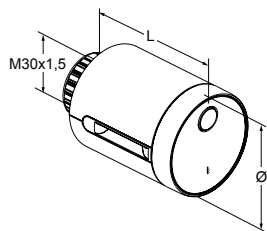
Simple user interface

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.



Articles

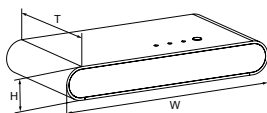


Smart thermostatic head neoFlo

Batteries and valve adapter for Danfoss RA (Art. No. 9702-25.700) included. (No adapter needed for IMI Heimeier valves)

Colour	L	Ø	EAN
White RAL 9016	78	53	5060267979391

Gateways

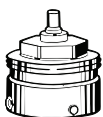


neoHub gateway (3rd generation)

230V mains supply (adapter included). Includes a 2.1mm DC jack plug connection for 6-12V DC output.

Colour	W	H	T	EAN
Black	170	26	91	5060267971272

Accessories



Connecting to products from other manufacturers

Adapters for mounting all IMI Heimeier thermostatic heads on thermostatic valve bodies from manufacturers listed here.

Standard M30x1.5 threaded connection. Refer also "Thermostatic head with direct connection to thermostatic valve bodies from other manufacturers".

Can not be used on radiators with integrated valves.

Manufacturer	EAN	Article No
Danfoss RA (Ø≈20 mm) *)	4024052297016	9702-24.700
Danfoss RAV (Ø≈34 mm)	4024052300112	9800-24.700
Danfoss RAVL (Ø≈26 mm)	4024052295913	9700-24.700
Vaillant (Ø≈30 mm)	4024052296019	9700-27.700
IMI TA (M28x1,5)	4024052336418	9701-28.700
Herz (M28x1,5)	4024052296316	9700-30.700
Markaryd (M28x1,5)	4024052296514	9700-41.700
Comap (M28x1,5)	4024052296712	9700-55.700
Giacomini (Ø≈22,6 mm)	4024052429714	9700-33.700
Oventrop (M30x1,0)	4024052428519	9700-10.700
Ista (M32x1,0)	4024052511419	9700-36.700



Connection to radiators with integrated valves

Adapters for mounting IMI Heimeier thermostatic heads with an M30x1.5 connection on thermostatic inserts for clamping connections.

Standard M30x1.5 threaded connection.

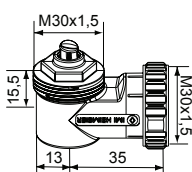
		EAN	Article No
Series 2	(20 x 1)	4024052297214	9703-24.700
Series 3	(23,5 x 1,5), since 10/98	4024052313518	9704-24.700



Spindle extension

for thermostatic valve bodies.

L	EAN	Article No
Brass nickel-plated		
20	4024052528813	2201-20.700
30	4024052528912	2201-30.700
Plastic, black		
15	4024052553310	2001-15.700
30	4024052165018	2002-30.700



Angle connection M30x1.5

EAN	Article No
4024052035724	7300-00.700