



Comfort and Control

Heating controls for time, temperature and flow control



Control, Comfort and Energy Efficiency

This brochure looks at the range of heating, hot water and leak detection controls that can be wired into the heating system or installed wirelessly, thereby providing you with:

- Independent timing control of the heating and hot water
- Temperature control of the heating
- Combined time and temperature control of the heating including underfloor heating
- Temperature control of the hot water
- Security & Leak Detection alerts

This control is provided either by using a modern, easy-to-use control screen or by means of a smartphone or tablet app.

Energy saving features in our controls:

- Time Proportional and Integral (TPI) control calculates the demand from a room thermostat, controlling the boiler so that it fires for shorter periods as the temperature approaches the set point. This can offer additional energy consumption savings of up to 13% (BEAMA 2015).
- Optimisation allows for energy savings by varying the start-up time of the boiler. It then learns how the house reacts, so that the calculation can be more accurate the next day.
- Optimum Start, Delayed Start and Optimum Stop are all methods of optimisation.



ErP Energy Efficiency Ratings

The ErP energy efficiency ratings shown in this brochure will give installers and end users the information required to both complete the ErP energy label and assess the benefits of the heating controls to the overall heating system in the property. These ratings apply to room thermostats (including programmable thermostats).

The need for choice

To control today's modern domestic heating systems and satisfy your customers' needs for additional levels of control, you need Honeywell Home's comprehensive range of controls that allow you to offer your customers what they need, secure in the knowledge that the controls you install will also work with the heating system. Our range consists of both wired and wireless time and temperature controls that can be controlled via easy controls on the timer or thermostat, and also can provide control via a smartphone or tablet app.

Why Wireless?

More and more wireless thermostats and time controls are being installed, and the reasons why are easy to see:

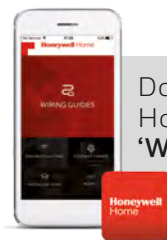
- They are easy to install and easy to use.
- They overcome any difficult installation problems you may face.
- There is no additional wiring beyond wiring one control into the existing system.
- There is no disruption to the fabric of the building when retrofitting controls.

Why Wired?

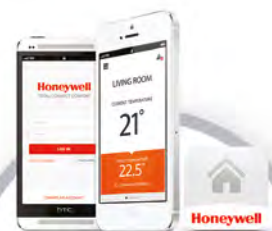
Our range of wired time control, programmable and room thermostats are ideal when you need to replace existing wired products. All the modern features of our wireless range – easy to use timing programs, thermostats with inbuilt smart features such as TPI and optimisation – are also in our wired range.

Why Connected?

With broadband in nearly every home, your customers are now favouring products which offer control via smartphone or tablet. The Honeywell smart connected range provides you with all the choice you need to give your customers what they are asking for.



Download the new Honeywell Home 'Wiring Guide' app



Total control of temperature via smartphone or tablet app



T6360 Mechanical wired room thermostat

The T6360 is a mains voltage room thermostat designed to give automatic temperature control of domestic wet central heating systems. It can be used to directly switch a circulating pump or boiler, or to operate spring return and motor open/motor close zone valves. The T6360 can switch electrical heating loads up to 16 amp and can also be used for cooling applications.

- Double insulated, no earth wire required for operation
- Dual diaphragm temperature sensing element for accurate measurement
- Heat anticipator for close temperature control
- Simple dial for temperature setting
- 10 to 30 °C set point range
- Change over contact switching
- Easy-to-wire terminals with built-in conductor clamps to ensure wiring is retained securely for use in cooling and heating/cooling applications
- Suitable for surface or switch box mounting (fixing screws are supplied for either surface or flush mounting box)
- Boiler plus compliant for system boilers when used with a timer or programmer

T4360 Frost wired room thermostat

The T4360 is a mains voltage frost thermostat designed to give automatic frost protection to boilers, pipework and the fabric of the building. The thermostat should be fitted in the coldest areas: loft space, floor voids, garages etc.

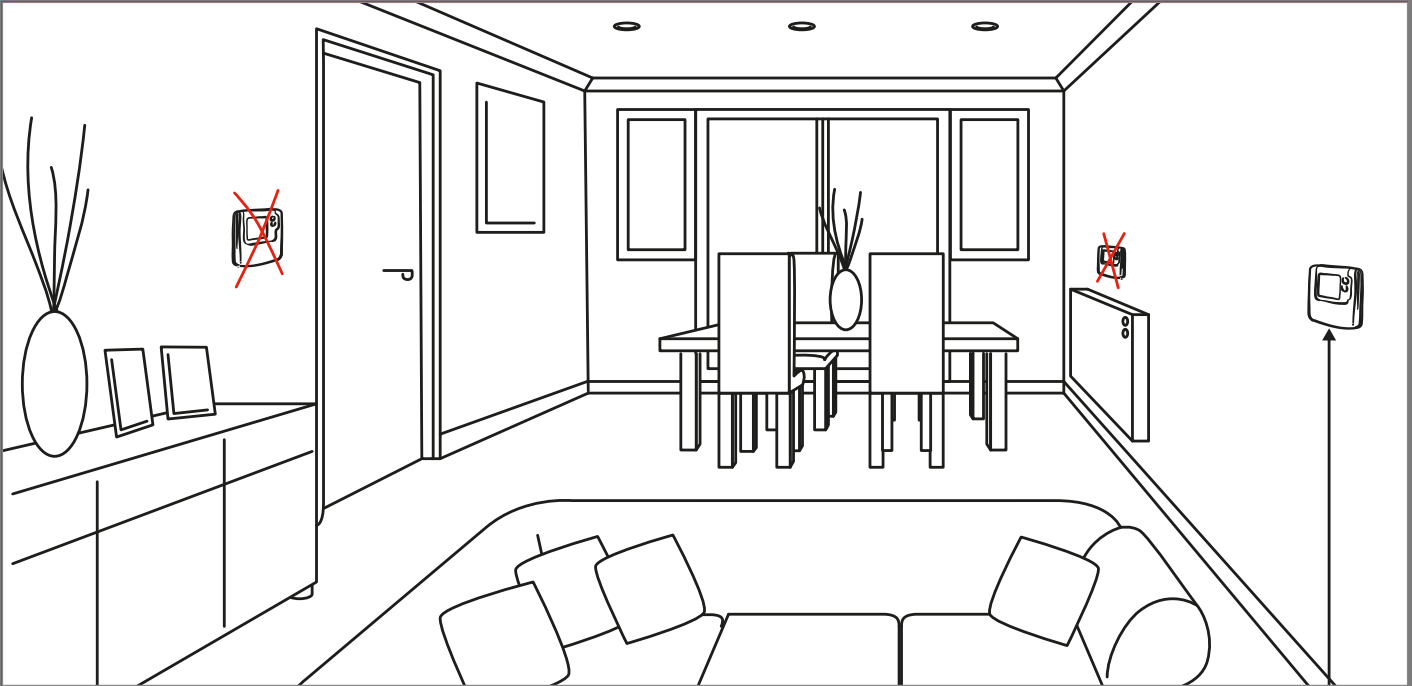
- Dual-diaphragm temperature sensing element for accurate temperature calculation
- 3 to 20 °C set point range
- Tamper-proof cover
- Suitable for surface or switch box mounting
- Double insulated, no earth wire required for operation
- Change over contacts for use in cooling and heating/cooling applications
- Use in conjunction with low-limit Pipe Thermostat (Frost Kit)



| Product Code | Functions |
|--------------|---|
| T6360B1028 | Standard model complete with heat anticipator and RFI suppressor to protect from external electrical interference. 10 amp |
| T4360B1015 | High-current rated version with SPST switching and rated at 16A (resistive). This model is without a heat anticipator |
| T6360B1069 | As standard model but with tamper-resistant cover and setting dial |
| T6360B1036 | As standard model but with indicator lamp on front cover, which is lit on a call for heat |
| T6360B1085 | As standard model but with setting dial marked 1 to 5 |
| T4360E1018 | Model with temperature setback heater (fixed at 6 °C) and SPST switching. Complete with anticipator heater and RFI suppressor |

| Product Code | Functions |
|---------------|--|
| T4360A1009 | Frost Thermostat |
| K42008628-001 | Frost Kit including T4360 Frost Thermostat and L641B Low-Limit Pipe Thermostat |

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Positioning a room thermostat correctly

The performance of all room thermostats is affected by measured air flow across them. This air flow is dependent on the location of the room thermostat. If a room thermostat is poorly located, the air flow will not be representative of the rest of the room, and the temperature control will be adversely affected. Because every heating system must have a room thermostat, the decision of where to position it is very important, and requires careful consideration before installing. There are places where a room thermostat should never be found; the places that are left will be appropriate for locating the room thermostat.

So where should you put it? The diagram above gives good guidance on where a thermostat should be fitted. Generally, it is very difficult to suggest the perfect position, as every heating system is different.

Locate the room thermostat in the heated area (zone) requiring control, on a wall at a height of about 1.2m, where it has a free flow of air around it. But do make sure that the thermostat is not suffering from any of the adverse factors in the following list.

Where you should never site a thermostat:

- In a room with another major heat source, e.g. an open fire, gas fire or cooker
- In an unheated room
- In a room fitted with radiator thermostats
- In direct sunlight
- Behind furniture or curtains
- In a warm draught
- In a cold draught
- Directly opposite a radiator, or other heat source
- Directly above a radiator, or other heat source (remember that electrical appliances such as televisions, DVD players, hi-fis emit considerable amounts of heat)
- In a corner of two walls
- In a corner at the junction of the wall and ceiling

Some positions for a room thermostat may be perfectly acceptable, but exceptional problems may need to be considered.

On an external wall. The room thermostat may be on a cold wall, thereby overheating the living space. To overcome this, you may need to set the temperature at a lower point to compensate.

On a garage wall. Sometimes an electrician may surface-mount the cable in the garage and then drill through the wall to access the back of the thermostat. This can allow a very cold draught directly into the back of the thermostat, reducing the sensed temperature and causing serious overheating of the living space. If the hole between garage and the property is competently filled, this should alleviate any temperature-changing drafts.

It is, however, very easy to eliminate all of the inappropriate places to site the room thermostat.

Room & Frost Thermostats

Control the temperature of the property with room and frost thermostats. These wall-mounted and wireless models provide sophisticated temperature measurement and accurate control.

DT90 & DT92E room thermostats

- Slim modern design with a display featuring extra-large, easy-to-read text
- Energy-saving TPI control allowing boilers to operate with greater efficiency
- ECO button for energy-saving mode, giving timed setback or temperature boosts with countdown timer
- Simple user operation with one-button up/down temperature adjustment over a 5 to 35 °C set point range. The interface includes a room temperature inquiry and a heating on indicator
- Adjustable off set point so that frost protection can be achieved when in timed period
- Four year battery life with battery low warning
- Mains or low voltage switching
- Two-wire, volt-free connections are ideal for use with combination boilers or heating zones
- Installer Mode that allows control to be matched to the system and user requirements, adapting minimum on or off times, set point controls etc.
- Can be surface or wall box mounted
- Boiler Plus compliant for system boilers when used with a timer or programmer



DT92 wireless thermostat



DT90 wired thermostat

Wireless version only

- Easy to set up with pre-bound two-way wireless communication (30 metres range) and a signal strength indicator
- Table stand
- Lockable clear plastic thermostat cover, includes back plate and spare available for both models (Code TG510A1001 – one cover for both models)

| Product Code | Description |
|--------------|--|
| DT92E1000 | Wireless digital room thermostat with ECO energy-saving feature, complete with batteries |
| DT90E1012 | Wired digital room thermostat with ECO energy-saving feature complete with batteries and full instructions |

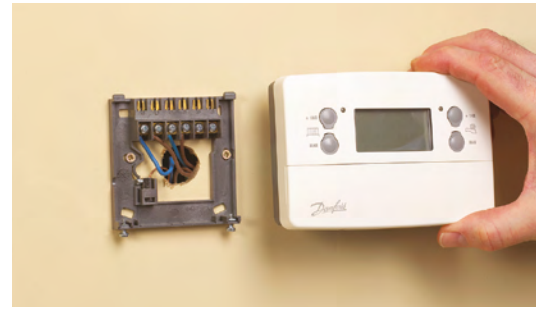
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Our heating control systems

We have combined our tried and trusted heating controls into a series of wireless heating control packs that you can use when you have a specific installation need. Sundial RF² packs are boxed sets of controls that feature a combination of a wireless enabled timer, wireless thermostat and wireless cylinder thermostat, to suit a range of installation types. The timer has a built-in wireless receiver. This means that simply by replacing an old timer a thermostat is enabled in a system without having to run any new wiring.

With Sundial RF² you get:

- A two-way wireless receiver built into the timer, avoiding the need to wire extra receivers into the heating system.
- Products that are set up so that as soon as they are installed they will start to communicate with the RF² timer.
- A wired timer that can easily be fitted in place of existing controls.
- Thermostats that can be free-standing or wall mounted.
- Products that fit onto industry standard back plates for fast and easy replacement.
- A wireless cylinder thermostat that can be swiftly integrated into the system.
- Timers that have optimisation features (Optimum Start, Delayed Start and Optimum Stop energy saving technology) as standard
- Digital thermostats that have TPI (time proportional and integral) control and energy-saving features to reduce energy demand. (Saves 13% over a normal room thermostat – BEAMA 2015)



Remove the old timer



Install the RF² timer



It will wirelessly communicate straight out of the box

The ST9420 programmer in Sundial RF² Packs 2 & 3 directly replaces any of the following programmers:

| Supplier | Programmer |
|---------------|------------|
| ACL - Drayton | SM2 |
| ACL - Drayton | LP112 |
| ACL - Drayton | LP241 |
| ACL - Drayton | LP522 |
| ACL - Drayton | LP722 |
| ACL - Drayton | LP241Si |
| ACL - Drayton | LP522Si |
| ACL - Drayton | LP722Si |
| ACL - Drayton | Tempus 3 |
| ACL - Drayton | Tempus 4 |
| ACL - Drayton | Tempus 6 |
| ACL - Drayton | Tempus 7 |
| ACL - Drayton | LS241 |
| ACL - Drayton | LS522 |
| ACL - Drayton | LS722 |
| ACL - Drayton | EPR1 |
| ACL - Drayton | RPF7 |
| ACL - Drayton | RP24 |
| ACL - Drayton | EMP1 |
| ACL - Drayton | EMP2 |
| ACL - Drayton | UP1 |
| Danfoss | CP15 |
| Danfoss | CP75 |
| Danfoss | CP715 |
| Danfoss | CP715Si |
| Danfoss | FP15 |
| Danfoss | FP75 |

| Supplier | Programmer |
|--------------|------------------|
| Danfoss | FP715 |
| Danfoss | FP715Si |
| Danfoss | MP15 |
| Danfoss | MP75 |
| Glowworm | Mastermind |
| Homexpert | THR860S |
| Honeywell | ST6400A |
| Honeywell | ST6400C |
| Honeywell | ST9400A |
| Honeywell | ST9400C |
| Horstmann | Centaurplus C21 |
| Horstmann | Centaurplus C27 |
| Horstmann | Centaurplus C121 |
| Horstmann | Centaurplus C127 |
| Iflow | Iflow PR |
| Landis & Gyr | RWB40 |
| Landis & Gyr | RWB102 |
| Landis & Gyr | RWB200 |
| Landis & Gyr | RWB200cw |
| Landis & Gyr | RWB252 |
| Landis & Gyr | RWB252cw |
| Landis & Gyr | RWB270 |
| Landis & Gyr | RWB2 |
| Landis & Gyr | RWB Mk1 |
| Landis & Gyr | RWB2 |
| Landis & Gyr | RWB2 Mk2 |
| Landis & Gyr | RWB2.9 |

| Supplier | Programmer |
|-----------------|--------------|
| Landis & Gyr | RWB9 |
| Landis & Gyr | RWB-XP |
| Landis & Staefa | RWB9 |
| Landis & Staefa | RWB2E |
| Microgyr | 1 |
| Microgyr | 102 |
| Microgyr | 2 |
| Microgyr | 40 |
| Microgyr | 200 |
| Microgyr | 200cw |
| Microgyr | 252 |
| Microgyr | 252cw |
| Microgyr | 270 |
| Microgyr | 9 |
| Microgyr | XP |
| Potterton | Miniminder |
| Potterton | Miniminder E |
| Sankey | Sunline |
| Siemens | RWB29 |
| Siemens | RWB270 |
| Sunvic | Select 207 |
| Thorn | Miniminder |
| Wickes | RWB2/6832 |
| Wickes | RWB200.cw |
| Wickes | RWB252.cw |
| Wickes | RWB2E.cw |
| Wickes | RWB9.cw |

This information is based on the back plate supplied with the original programmer. At the time of writing, all information is correct.

| Pack Number | Application | You get |
|---|--|--|
| Sundial RF ² Pack One Y9120H2009 | Ideal for adding a room thermostat to combi boilers and single heating zones. | ST9120C Single channel time switch; DT92E Digital thermostat with wireless receiver |
| Sundial RF ² Pack Two Y9420H1008 | Ideal for adding a room thermostat to an existing system that has stored hot water and a domestic hot water thermostat. | ST9420C twin channel timer; DT92E Digital thermostat with wireless receiver. |
| Sundial RF ² Pack Three Y9420S2005 | Ideal for adding a room thermostat and cylinder thermostat to new and existing systems. | ST9420C Twin channel timer; DT92E Digital thermostat with wireless receiver and CS92 wireless cylinder thermostat. |
| Sundial RF ² Pack Four Y9120W1000 | Ideal for adding a hot water timer and cylinder thermostat to new and existing Sundial systems, or upgrading a gravity hot water system. | ST9120C Single channel time switch and wireless cylinder thermostat. |
| Sundial RF ² Pack Five Y9520Z1007 | Ideal for providing two heating zones. | ST9520C Twin channel timer; 2 x DT92E Digital thermostat with wireless receiver. |

Sundial RF² System Components



ST9120C wireless enabled timeswitch



ST9420C wireless enabled programmer



ST9520C wireless enabled 2 zone programmer

ST9120/ST940/ST9520 Timer range

- Large backlit display – easy to read with text feedback that gives set-up assistance and programming hints
- Optimisation – Optimum Start, Delayed Start and Optimum Stop energy saving technology
- Choice of 3 different built-in programmes for energy saving, plus 'Extra hour' facility for up to 3 hours' programme extension at the touch of a button.
- Set every day differently with 7 day programming – flexible to suit the user's lifestyle.
- Holiday button ensuring energy cost savings.
- Temporary or permanent override facilities offer maximum flexibility.
- Fits on industry standard back plate – no need to re-wire.
- 2-level battery backup – maintains settings in event of power failure, and settings are retained in memory indefinitely.
- Factory set time and date, with automatic summer/winter 1-hour time change.
- Service mode – set a service reminder with the option of a phone number to be displayed on screen and/or a service countdown.
- Enquiry mode – access temperature information from other system components.
- Suitable for mains, low-voltage or potential-free switching.
- The ST9520C can control two separate digital thermostats from the one control and has Open Therm capability.
- ST9120C is the direct replacement for Honeywell ST9100 and ST6100 models.
- ST9420C is the direct replacement for Honeywell ST9400 and ST6400 models.
- ST9520C is the direct replacement for Honeywell ST9500 models.
- All Sundial RF² products meet Building Regulations Part L standards and when replacing an existing wired timer, Part P Building Regulations do not apply.

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DT92E wireless thermostat



CS92A Wireless Cylinder



BDR91T Receiver

DT92E Wireless Thermostats

- Easy to set up with two-way wireless communication (30 metres range) and a signal strength indicator.
- 'TPI control' offering energy-saving technology to reduce heating costs.
- Simple user operation plus an ECO button giving a timed temperature boost or reduction at the touch of a button.
- 5 to 35 °C set point range offers a wide range of comfort levels.
- Heating 'ON' indicator; no need to visit the timer control for a system check.
- 'Installer mode' allows the installer to set the fundamentals of the system for the customer.
- Boiler Plus compliant for system boilers when used with a timer or programmer.

CS92A Wireless Cylinder

- Hot water temperature set at programmer.
- Pre-bound to programmer and ready to use.
- Fits on new or existing systems.
- Battery powered.

BDR91T Receiver

Enables wireless enabled timer to be connected to remote boiler installations: Pack 1, 3 or 5. This is an additional RF² product and is not included in any of the packs.

| Product information | Pack 1 Y9120H2009 | Pack 2 Y9120H2009 | Pack 3 Y9420S2005 | Pack 4 Y9120W1000 | Pack 5 Y9520Z1007 |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Pack Contents | | | | | |
| ST9120C Timeswitch | ✓ | | | ✓ | |
| ST9420C Programmer | | ✓ | ✓ | | |
| ST9520C Programmer | | | | | ✓ |
| DT92E Thermostat | ✓ | ✓ | ✓ | | 2 |
| CS92A Cylinder Thermostat | | | ✓ | ✓ | |
| Features | | | | | |
| OpenTherm | | | | | ✓ |
| TPI Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optimum Start | ✓ | ✓ | ✓ | ✓ | ✓ |
| Delayed Start | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optimum Stop | ✓ | ✓ | ✓ | ✓ | ✓ |
| Holiday Mode | ✓ | ✓ | ✓ | ✓ | ✓ |
| DT92E Thermostat | ✓ | ✓ | ✓ | ✓ | ✓ |
| Override | ✓ | ✓ | ✓ | ✓ | ✓ |

| Product information | Pack 1 Y9120H2009 | Pack 2 Y9120H2009 | Pack 3 Y9420S2005 | Pack 4 Y9120W1000 | Pack 5 Y9520Z1007 |
|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Channels | 1 | 2 | 2 | 1 | 2 |
| Channels | 7,5/2 of 1 | 7,5/2 of 1 | 7,5/2 of 1 | 7,5/2 of 1 | 7,5/2 of 1 |
| No. of On/Off per day | 3 | 3 | 3 | 3 | 3 |
| Line of text display | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fits industry std. backplate | ✓ | ✓ | ✓ | ✓ | ✓ |
| System rewire required | No | No | No | No | No |
| Boiler service reminder | ✓ | ✓ | ✓ | ✓ | ✓ |
| PIN code | ✓ | ✓ | ✓ | ✓ | ✓ |
| Phone No. on display | ✓ | ✓ | ✓ | ✓ | ✓ |
| Installer set-up | ✓ | ✓ | ✓ | ✓ | ✓ |
| Signal strength indicator | ✓ | ✓ | ✓ | ✓ | ✓ |

Programmable Room Thermostats

Programmable room thermostats in the CM700 range are designed for social housing needs and provide wired or wireless time and temperature control for domestic premises with additional functionality for landlords.

The Honeywell Home T3 programmable thermostat is a wired or wireless 7-day programmable thermostat that is an ideal solution for installation in all types of domestic environment including social housing. It's simple to use and provides a sophisticated level of automatic time and temperature control.

The Honeywell Home T4 programmable thermostat is a wired or wireless 7-day programmable room thermostat with a modern design and an upgraded user interface. It provides automatic time and temperature control of domestic heating in domestic or light commercial premises.

The T6 series of programmable thermostats has been developed as part of a future world of connected controls. The T6 Series is thoughtfully designed and equipped with touch-screen technology, remote access via tablet or smartphone, recognisable icons, wireless connectivity and a suite of features in tune with today's home controls. It is suitable for any boiler and any system.



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The T6 series

Smart programmable thermostats with timed hot water control.

Any System. Any Boiler. Anywhere

Smart, connected, and programmable, the stylish T6 thermostats provide intuitive time, temperature and hot water heating control, as well as a two heating zone solution.



reddot award 2017
winner



T6 is a Red Dot design award winner for 2017

T6 thermostats are compatible with any boiler and any system including 24–230V on/off and OpenTherm appliances such as gas and oil boilers, combi boilers and heat pumps. The T6 range also controls zone valve applications, providing time control of stored domestic hot water and two heating zone applications (S Plan Plus). This range of thermostats cannot control electric heating.

All models include control via smartphone/tablet, connecting directly to home broadband networks.

Location-based temperature control (geo-fencing) automatically adjusts the required room temperature dependent on location. The thermostats communicate with the app to determine when the home is vacant or when the homeowner is on their way home, adjusting the temperature accordingly. Remote location setting and



schedule control can be accessed and used by multiple users. Remote location control can also be used to control hot water.

OpenTherm; TPI and Optimum start/stop & delayed start boiler control operate as three layers of automatic intelligent control, allowing the thermostat and boiler to work more efficiently.

Home Integration ready – Apple HomeKit, Amazon Alexa and Google Home systems all recognise T6 thermostats. Works with the IFTTT web control system.

Integrated control within the app for a Home Security Camera (C1) and W1 Water Leak Detector.

Online account can be edited when changing properties.



The receiver box

The wireless receiver box has been redesigned to simplify installation.



Receiver box



Receiver box
back plate

- Single channel and two channel models available
- Simple lift up wiring bar for easy access and easy-to-install boiler or zone valve interface*
- Direct wall or wall-box mounting
- Use existing wiring from a wired thermostat
- Specific OpenTherm terminals simplify connection to OpenTherm-capable boilers
- LED power and warning light system show communication status with boiler or zone valve
- Override the thermostat and fire the boiler for a systems check with a one-button push
- Quickly reset and delete the current binding using the reset pinhole
- Designated earth wiring park

* The T6R & T6R-HW wireless and T6 wired versions require a receiver box.

Note: The receiver box differs according to the model.


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One smart thermostat, multiple solutions

The different models in the T6 range provide everything the installer needs to control heating and hot water in any boiler and any system.


With attractive, ultra-modern styling, T6 thermostats are ideal in any location and any home. All models include:


 **Touch-screen interface** with easily recognised icons


 **Wi-Fi-enabled connectivity** allows direct connection to home networks without additional equipment


 **Will work as a non-connected thermostat** when not connected to the home broadband network.


7 day, 5/2 day and single day scheduling with a preconfigured schedule included. Choice of up to 6 time periods per day


 **'In use' confirmation**


 **Time-out screen** with selectable brightness levels

 **Set point and room temperature displayed**

 **5–37 °C temperature range**, with minimum/maximum set point facility and off position frost protection

 **Temperature measurement** can be offset to suit the position of the thermostat

 **240V powered** (not reliant on batteries)

 **Alert messages** to assist fault-finding



 **Boiler Plus ready**

T6R wireless programmable thermostat supporting easy installation

- Small table-top stand (powered by standard power lead) can be easily positioned for optimal temperature measurement
- Easy switch-over for existing wireless receiver boxes with a simple, one-wire path to the boiler
- The thermostat is pre-bound to the receiver box
- Signal strength test facility ensures a robust wireless signal
- Boiler operation fail-safe feature for lost communications

| Product Code | Product Name/Description |
|--------------|-------------------------------|
| Y6H910RW4022 | T6R Wireless Smart Thermostat |



T6 wired model

- Wall-mounted programmable thermostat designed to replace existing wired models
- Wired via a receiver box to the boiler with a simple wall mounting solution – direct wall or wall-box mounting
- Use wiring from the old thermostat, adding an optional decor plate to larger footprints where necessary

| Product Code | Product Name/Description |
|--------------|---------------------------|
| Y6H910WF1011 | T6 Wired Smart Thermostat |
| ACC400 | T6 decor plate |



T6R-HW wireless model with hot water control

- Wireless programmable thermostat with hot water control
- For control of central heating and stored hot water systems
- Hot water Boost function for temporary override
- Location-based hot water temperature control (geo-fencing). Boost facility can also be geo-fenced
- Suitable for Sundial S, Y and W plan stored hot water systems (on/off)
- Flexible on-screen or remote scheduling of hot water and heating (via smartphone or tablet)
- 'In use' confirmation with a flame and hot water demand symbol
- Pre-bound two channel receiver
- Compatible with a wide range of cylinder thermostats (not included) – it is recommended that one of a wide range of Honeywell Home's Cylinder thermostats are used

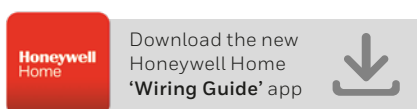
| Product Code | Product Name/Description |
|--------------|--------------------------|
| Y6H920RW4026 | T6R-HW Smart Thermostat |



T6R wireless model including a two zone solution

- The new two channel wireless receiver allows two heating zone applications. For this application the receiver box is sold as a single item to be added to two wireless T6R models (thermostat only)

| Product Code | Product Name/Description |
|--------------|--|
| R6H911RF4018 | Wireless 2-channel Receiver box R6 (spare) |
| T6H600WF1003 | T6 Wired Smart Thermostat (spare) |
| T6H700RW4011 | T6R Wireless Smart Thermostat (spare) |



Download the new Honeywell Home 'Wiring Guide' app

W1 Wi-Fi Water Leak and Freeze Detector

Offer your customers peace of mind wherever they are

Leaks and frozen pipes can cause serious damage to your customers' home. The W1 Wi-Fi Water Leak and Freeze Detector provides your customers with peace of mind through notifications directly to their smart device and audible alerts through the detector, when they are home or away.



Detection & Protection

The W1 Wi-Fi Water Leak and Freeze Detector informs your customer when a leak is detected, enabling them to act quickly, avoiding potentially costly repairs. Built-in sensors track indoor temperature and moisture levels helping to avoid freezing pipes and mould.



Easy Set-up

One box solution, only Wi-Fi connection and Honeywell Home app required. No additional hub needed. Installation takes just a few minutes.



Battery Operated

Further easing installation is the battery operation. There's no wiring, so it's easy to install the unit where needed. Battery life is up to 3 years without incident.



Fewer Callbacks

The battery operation makes maintenance easy for the homeowner. They will even receive a notification when the batteries need to be replaced.



Expandable

The W1 Wi-Fi Water Leak and Freeze Detector comes with a 1.2m fully sensing cable that increases the detection area. It can also be wrapped around at-risk pipes. Additional cables can be added to cover larger areas of up to 150m.



Bottom Line Growth

Water damage can happen to anyone – so the W1 Wi-Fi Water Leak and Freeze Detector can be recommended to all customers. For you, that means adding it to your line-up will lead to increased upsell opportunities for your business.

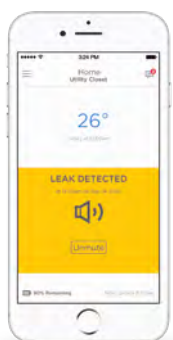


Part of the Honeywell Home family

The W1 Wi-Fi Water Leak and Freeze Detector is part of Honeywell's connected platform. In conjunction with the T6 thermostat your customers' homes become smarter – providing better control, and more comfort.



| Product features | |
|------------------------------------|--|
| Battery | 3 AA alkaline (included) |
| Battery Life | Up to 3 years w/o incident |
| Dimensions (W/H/D) | 78/78/32 mm |
| Product weight | 128g |
| Additional Cable Sensor Accessory | 1.2m |
| Siren Alarm | 100 dBA |
| Ingress Protection Rating | IP44 |
| Temperature Sensing | 32°F - 140°F (0°C - 60°C) |
| Humidity Sensing | -100% RH (+ - 3% RH) |
| Temperature & Humidity Sensing | Once per hour |
| Water Sensing | Once every 60 seconds |
| Temperature-notification Detection | Preset at <7°C and >37°C or can be changed by user |
| Humidity-notification Detection | Preset at <20% RH or >70% RH or can be changed by user |
| Temperature & Humidity Report | Daily |



Minimum System Requirements for Use with Wi-Fi:

- IEEE 802.11 b/g capable routers, 2.4 GHz.
- Honeywell Home app for Android (5+) or iOS (9+)



| Product code | Product | Standard Pack Quantity |
|--------------|------------------------------------|------------------------|
| W1KS W1 | Wi-Fi Water Leak & Freeze Detector | 4 |
| W1AS | Accessory Cable Sensor (1.2m) | 6 |

Homeowners want security










Meet their needs with the C1 Wi-Fi Security Camera

Intrusion detection is listed as the number one problem that homeowners would like addressed with a connected solution. Now you've got the answer with the Honeywell Home C1 Wi-Fi Security Camera. It's a simple – and profitable – way to set your business apart by offering a home security solution that also offers a wide range of surveillance possibilities – pets, children and areas of risk.

Designed for indoor use, the C1 delivers a wide-angle, high-definition view, and two detection zones can be set for extra sensitivity or to ignore background motion, like a ceiling fan. Real-time mobile alerts can be sent to the homeowner as well as family, friends or neighbours.



Key benefits

-  **See the whole picture in 720p HD** with the wide-angle camera
-  **Get rapid notifications on a smart device** if something unusual happens
-  **Intelligent sound detection** recognises smoke and carbon monoxide alarms (most leading brands)
-  **Focus on every detail** with the powerful 5x digital zoom
-  **Location-based control (geo-fencing)** provides an Away and Home mode for automatic control, turning your camera off and on depending on your location
-  **Keep the videos in a safe place** with free secure cloud storage
-  **See every second:** stream and download clips from the past 24 hours
-  **Two adjustable alert zones** ignore background motion to prevent false alerts, or focus on more sensitive areas
-  **Keep in touch** with the two-way audio function

Easy install and set-up through the intuitive Lyric app

Use multiple cameras to keep an eye on the whole home

The free 8 GB SD card will store data if Wi-Fi is unavailable

Round-the-clock monitoring with 5m night vision

Five second pre-event recording means every moment is captured

Watch a live stream of what's happening on a smart device via the Lyric app

Simple and intuitive controls make the Honeywell Home app so easy to use

Recordings are secure thanks to 256-bit advanced encryption

Choose flexible mounting options for either wall or table-top

Peace of mind thanks to quality design and two-year guarantee

Trust the name with over 100 years of expertise and innovation

Our trusted technology has brought safety, security and comfort to over 150 million homes



Minimum System Requirements for Use with Wi-Fi:

- Wi-Fi router (802.11 b/g/n, 2.4 GHz) with internet access, Honeywell Home app for Android or iOS, Minimum bandwidth 1.333 Mbps



Need help?

Find online support at connectedproducts.honeywellhome.com

| Product code | Item |
|--------------|--------------------------|
| HAWCIC1S | C1 Wi-Fi Security Camera |

evohome Wi-Fi multi-zone system

evohome is a sophisticated heating system that ensures you can create and individually control up to 12 heating zones in domestic properties. **evohome** will also control domestic hot water.

evohome is suitable for any home with a hydronic (wet) central heating system. Zoning solutions can be designed for even the simplest of property layouts. **evohome** is ideal when looking to control temperatures in larger properties, such as luxury apartments; large family homes; homes with business use; multiple occupancy apartments and light commercial spaces, such as doctor's surgeries and small offices. **evohome** allows the installation of multiple temperature sensing devices around the property without altering existing pipework, disrupting decor or damaging fixtures and fittings.

- With touch-screen control, the user can quickly gain control of exactly where and when the property should be heated
- Remote access is provided via a tablet or smartphone
- Wireless Radiator Controllers provide an easy way of installing heating zones without draining down or disturbing pipes or decor
- OpenTherm control capability is possible by installing the **evohome**
- OpenTherm Bridge
- Works with Smart Home products such as Amazon Alexa, Google Home and IFTTT



ErP Class VIII +5%

evohome can also be installed as a connected programmable thermostat to control any system and any boiler providing further connected thermostat product choice.



evohome controls

Radiator Controllers

The radiator controllers use two-way communication with the **evohome** controller to ensure that commands are received and valves are opened while maintaining boiler interlock.



HR92 Radiator Controllers

These slim, ergonomically-designed radiator controllers will fit on most standard TRV bodies. They are battery powered with a two-year battery life and a battery-low reminder visible on both the radiator controller screen and the **evohome** controller screen.

- The flip-up screen is backlit and can be easily viewed or folded away
- The backlit LCD screen displays the zone name and local set point temperature
- Override temperatures can be set in half degree increments and are effective until the next scheduled temperature change
- Open window feature that recognises a sudden temperature drop and shuts off the radiator
- The zone temperature changes made either at the **evohome** controller's screen or via the remote app will change in real time on the screen on the radiator controller
- They are easily bound into the system using the guided configuration feature in the **evohome** controller; binding confirmation is displayed on the screen.



HR91 Radiator Controllers

It has a non-intrusive design that will suit areas of high footfall or when the **evohome** radiator controller will not be visible during normal operations. It sits alongside the HR92 Radiator Controller in the range of **evohome** products.

- Battery powered with a two-year battery life with a battery low reminder
- Frost protection setting or simple override to a predefined set-point (21°C)
- Zone identification via the **evohome** display
- Easily bound into the system using the **evohome** guided configuration feature
- Simple device check mechanism via tri-colour LEDs on the radiator controller, or via pop up alerts
- Child lock mechanism on the controller with simple mounting lock
- Auto-window open detection function (controlled via the **evohome** controller)
- Anti-vandal protection shield (available as an accessory product code AVS91)



The **evohome** Connected Thermostat Pack

Consists of an **evohome** controller, power lead and stand plus a wireless receiver box. A zoning pack is available so that you can create additional heating zones.

The **evohome** Essentials Pack

Brings you the sophistication of our **evohome** multizoning thermostat with the simplicity of our HR91 Radiator Controllers and consists of 1 x **evohome** Controller and Table Stand, 1 x Wireless Boiler Relay and 6 x HR91 Radiator Controllers.

The **evohome** Radiator Multi-Zone Kit

Provides 4 wireless radiator controller heads allowing you to create up to 5 zones - one per head plus the **evohome** controller as a temperature sensing device in a zone. Individual radiator controllers are also available. There is a kit for both HR92 & HR91 versions.

The **evohome** Hot Water Kit

Consists of a wireless cylinder thermostat, transceiver, optional unvented cylinder insertion sensor and an additional wireless relay for control of the hot water zone valve.



Digital room thermostat

Where there is a requirement to use a wireless room thermostat as a temperature sensor, our DT92 or Y87 digital room thermostat can be included in the **evohome** system.



Wireless cylinder thermostat

Control domestic hot water via the **evohome** controller screen by installing an externally-mounted wireless cylinder thermostat onto the hot water cylinder; sensors are provided for vented and unvented cylinders.



Wireless relay

The remote relay is wired into either a motorised zone valve or an installed boiler and provides the wireless interface between these devices and the **evohome** system. The receiver box requires a permanent 230V~ supply.



Under-floor heating controller

By controlling hydronic underfloor heating via our under floor heating controller, the time and temperature of the underfloor heating can be achieved via the **evohome** controller screen.



OpenTherm receiver box

Allows the boiler to be modulated via this bridge between OpenTherm capabilities built into the **evohome** controller and the OpenTherm capable boiler. Only required when controlling an OpenTherm capable boiler.

| Product Specification | |
|-----------------------|---|
| Order Code | |
| ATP921R3100 | evohome Connected Thermostat Pack: 1 x evohome controller, power lead, table stand and Wireless Receiver box |
| ATP926G3001 | evohome Essentials Pack: 1 x evohome Controller and Table Stand; 1 x Wireless Boiler Relay; 6 x HR91 Radiator Controllers |
| ATF500DHW | evohome Hot Water Kit: Wireless cylinder thermostat, transceiver, vented and unvented cylinder insertion sensor and a Wireless Receiver box for control of the hot water zone valve |
| HR924UK | The evohome Radiator Multi-Zone Kit: 4 wireless thermostatic radiator controllers |
| HR92UK | 1 x Radiator Controller |
| HR91 | 1 x HR91 Radiator controller |
| HR914 | 4 x HR91 Radiator controller |
| BDR91T1004 | Wireless Relay |
| DTS92E1020 | Digital Room Thermostat |
| Y87RF2024 | Single Zone Room Thermostat |
| ATC928G3000 | 1 x evohome controller (table stand not included) |
| R8810A1018 | OpenTherm Bridge |
| Accessories | |
| ATF800 | evohome Wi-Fi desk stand |
| ATF600 | evohome Wi-Fi wall mounting pack |
| ATF700 | evohome Wi-Fi grey; graphite & black optional front covers |
| HCC80R | Underfloor heating controller |
| VHL120 | Valve body kit for radiator |
| EVA1 | Adaptor to fit Danfoss valve body (supplied as standard with HR92UK) |
| AOV30 | Adaptor to fit Oventrop valve body |
| ACH28 | Adaptor to fit Herz valve body |
| HCF82 | Adaptor to fit Herz valve body |
| HCW82 | Remote room temperature sensor |
| AVS90 | HR92 vandal protection |
| APS90 | HR92 power supply PCB |
| AFA90 | Pack of 3 chromed caps for HR92 |
| MT4-230-NC | Standard Actuator |

Single Zone Connected Thermostat

The perfect replacement room thermostat. It is the first choice for hundreds of replacement room control situations.

- Wireless digital room thermostat that is perfect for upgrades
- For any system, any boiler
- Easy to fit & simple to use
- Create a 2 zone S Plan Plus system controllable via the App (both zones on the one App)
- Easily rebind to any existing Honeywell wireless relay (use T87RF2024 spare thermostat without the wireless relay)
- Battery powered with low battery indicator. pre-bound to the wireless receiver box
- Use this for room temperature control with a combi boiler or connect the unit to the internet and provide full time and temperature scheduling via the app
- On-screen battery status and RF signal check
- Remote control via a smartphone or tablet (RFG100 Mobile Access Kit required)
- Use as a Programmable Thermostat: Once connected, you can also use the Total Connect Comfort App to provide a combined time and temperature profile of 6 time periods a day variable by day for each of 7 days
- Perfect for UK homes: The set point range is 5–35 degrees C in .5 degree increments
- Energy saving TPI control
- Security features: programmed range stop function
- Can also be used: as a temperature sensing device in the **evohome** multi zoning system
- Will connect with the **evohome** security system—heating and security control in one app
- Works with Smart Home products such as Apple HomeKit , IFTTT and Amazon Alexa



Y87RF2024



RFG100 Mobile Access Kit

Simple to install wireless modem to let the Single Zone Thermostat communicate with the Honeywell Home Total Connect Comfort App - Connects via an Ethernet cable (supplied) to the home broadband router.

- One-button binding
- 240V power supply (supplied)
- Honeywell Total Connect Comfort App available free of charge from the App Store or Google Play Store; Free Honeywell TCC account



RFG100



T4 programmable thermostat

T4 is a modern wired or wireless 7-day Programmable Room Thermostat. It is designed to provide automatic time and temperature control of heating in domestic or light commercial premises.



T4R wireless programmable thermostat



T4 wired programmable thermostat



New and improved wireless relay box

- Compatible with 24-230V on/off appliances such as gas boilers, combi boilers and zone valves
- The T4 can be used in a Sundial S or Y Plan system
- Well suited to control combination boiler installations or additional zones in an S Plan Plus system.
- On screen text display and function buttons to ensure simplified programming and operation for all users
- Energy saving 'fuzzy logic' control;
- Optimum Stop, Start & Delayed Stop features that learn how the room is heated
- Two wire, volt free connections are ideal for use with combination boilers
- Easy to fit
- Wired version has a new improved wall plate with extra wiring space and a clip-on cover to the fixed wall plate
- Optional Wired external sensor available (wired versions only)
- On-screen heat demand icon makes start up testing easy
- Simple push button access to configuration menus
- Adjustable Frost protection
- Away mode with specific temperature set (number of days changeable)
- Temporary schedule override until next set point or for 1 or 2 hours
- Schedule can be turned off – will operate as a variable setting thermostat only
- Continuous time, displayed in extra-large LCD
- Automatic summer/winter time change
- 7-day programming with 7 day; 5/2 or single day schedules
- Four or six independent time & temperature settings (default is 4)
- Pre-configured 5/2 heating schedule
- Battery powered (with low-power indicator)
- Easy change battery compartment
- Optional backlight with extended light on time period
- Burner 'ON' symbol
- 2 zone s plan plus applications possible separate wireless T4 thermostat model with no receiver and a separate 2 channel receiver available)

Wireless programmable thermostat additional features and benefits (T4R)

- Wireless communication between thermostat and receiver box with 30m range.
- Pre-bound to the wireless receiver box, no need to establish a binding

Receiver box (wireless version only)

Designed for the installer in mind, this receiver box comes pre-bound to the T4R and provides the link between the boiler and the wireless thermostat.

- Lift up wiring bar for easy wiring
- OpenTherm terminals as standard
- Clear wiring labels
- Strain relief
- 4 screw fixing
- 2 Channel version available for 2 zone applications

| Product Code | Description |
|--------------|------------------------|
| T4H110A1021 | T4 wired thermostat |
| Y4H910RF4003 | T4 wireless thermostat |

| Product Code | Product Name/Description |
|--------------|--|
| T4H700RF2053 | T4R Wireless programmable Thermostat (No receiver, 1 per zone) |
| R6H911RF4018 | Two-Channel Receiver |



Wireless relay box backplate



T3R wireless programmable thermostat



T3 wired programmable

T3 programmable thermostat

Designed for a wide range of scenarios, including social housing, new constructions, mass installations and one-off domestic applications, the T3 Series thermostats are fully compatible with multiple boilers and systems.

The T3 Series is designed to make your life easier.

- A simple snap-on installation saves huge amounts of time and effort, especially during mass installations.
- The wireless version is a simple fit, with an easy-to-install pre-bound receiver box with the thermostat.
- The wireless version comes with a robust RF wireless signal, along with a built-in signal check
- For the wired version, it's just a case of installing a wall plate and connecting the thermostat. Quickly set it up for the customer and you're done
- Both versions offer an intuitive installation sequence so you can easily select pre-programmed schedules and cycle rate options for different boiler types
- All thermostats can be locked to prevent unnecessary customer interactions
- Upper and lower set points ensure extreme temperatures cannot be set
- 'In use' and 'Target set points' are clearly visible.
- Five soft touch buttons make it easy to control the thermostat
- The T3 is perfect for homes that need high levels of automatic control

The T3 models have an attractive, ultra-modern styling that makes them ideal for any location in any type of home. All the models have:

- A large screen with easily recognised icons and 5 control buttons
- Battery powered with date/time and clock start up screen
- 7 day, & 5/2 day scheduling with a pre-configured schedule included
- Choice of up to 4 time periods a day with copy day feature
- 12 hour or 24 hour clock settings
- Restore schedule and Factory reset facility
- Set point and room temperature displayed
- In use confirmation
- Screen Back light
- Temperature measurement can be offset to suit the position of the thermostat if required
- Minimum On Time & Cycle Rate settings ensuring compatibility with many boilers
- Minimum/maximum set point facility
- Alert messages to assist fault-finding with fail safe mode

| Product Code | Item |
|--------------|--|
| T3H110A0066 | T3 Wired programmable thermostat |
| Y3H710RF0053 | T3R Wireless programmable thermostat |
| T3H310A0045 | T3 Wired OpenTherm programmable thermostat |

Additional features of the T3 wireless version

- Wireless technology makes upgrading easier and the installation time shorter with less wiring involved
- The Thermostat wireless version includes a table stand for ease of positioning
- RF fault indication with signal strength test

Additional features of the T3 wired version

- Wall-mounted programmable thermostat designed to replace existing wired model
- Simple integrated wall mounting solution
- Utilise wiring from the old thermostat

CM700 programmable thermostats

The CM700 range of programmable room thermostats is designed for social housing needs and provides automatic time and temperature control to heat domestic premises with additional functionality for landlords.

The CM700 range has a scheduled maintenance alert, fault diagnostic mode and automatic summer/winter time change to assist in maintenance. Two-wire, volt-free connections are ideal for use with combination boilers.

- Slim, ultra-modern design
- Service interval warning
- Energy-saving TPI control
- Optional optimum start
- The CM720 has 4 temperature level changes per day
- Automatic summer/winter time change
- Auto, manual, holiday and off (frost) modes
- The CM727 has synchronised boiler control in multi-zone systems for optimum efficiency
- Boiler 'ON' display for easier system diagnostics
- Memory holds user programme even when batteries are changed
- Battery-powered (with low-power indicator).
- Volt-free connections

Wireless programmable thermostat additional features and benefits (CM727)

Wireless communication between thermostat and receiver box with 30m range.



CM707 wired programmable thermostat



CM727 wireless programmable thermostat



PROUD TO SUPPORT
THE PROFESSIONAL
INSTALLER

| Product Information | CM707 & CM727 |
|-----------------------------------|---------------|
| Suitable for systems with | |
| Combi boilers | ✓ |
| Regular boilers | ✓ |
| System boilers | ✓ |
| Multiple zones | ✓ |
| Features | |
| User interface | |
| OK button | ✓ |
| Large display | ✓ |
| Programme | |
| Number of displays | 7 |
| Number of temperature changes/day | 6 |
| Time setting resolution min | 1 |
| Temperature setting resolution °C | 0.5 |

| Product Information | CM707 & CM727 |
|-------------------------------------|---------------|
| Suitable for systems with | |
| Automatic summer winter time change | ✓ |
| Holiday mode | ✓ |
| Party function (timed override) | ✓ |
| Optimum start | ✓ |
| TPI control | ✓ |
| Service reminder | ✓ |
| Control output | |
| Relay output | ✓ |
| Relay type | SPDT |
| Relay load | 5(3)A |
| Wireless on/off | ✓ |

| Product Code | Description |
|--------------|--|
| CMT907A1041 | Wired 7-day programmable thermostat complete with batteries, fixing screws and instructions |
| CMT927A1049 | Wireless 7-day Programmable Thermostat complete with pre-bound Receiver Box, batteries, fixing screws and instructions |
| CMT707A1029 | Wired 7-day programmable thermostat complete with batteries, fixing screws and instructions |
| CMT727D1026 | 7-day wireless programmable thermostat complete with batteries, fixing screws and instructions |

Classic Controls

These classic compact models have straightforward slider and button controls and are ideal for controlling small domestic heating systems, where minimum control is required.

These classic time controls (ST699/799) are not Building Regulations (Part L) compliant, and we recommend that they are used only as like-for-like replacements. Consideration should be given to upgrading the control system to a more modern system.

These controls come in either a 1-day programmer version (ST699) or a 7-day programmer version (ST799). Both models feature:



1-day classic programmer ST699



7-day classic programmer ST799

- Classic controls including a simple set of button or slider interfaces to control the time programme
- Compact size: can be wall mounted in places where space is at a premium
- Double-insulated and suitable for surface or switchbox mounting
- Single channel operation for either heating or hot water
- Simple control choices – up to two on/off sequences can be programmed in a 24-hour period, with the same setting time for heating and hot water, repeated every 24-hours. Unit can be operated in a manual setting
- 12-hour display with AM/PM indication and indicator lights that denote the timed period is active or unit is manually switched to on
- Reset button to return the settings to the original built-in programme
- Battery back-up included – in the event of a mains electricity failure, the programmed information will be retained for up to 7-days
- 1-day or 7-day model (The ST799 can be installed as a 5-day/2-day unit, to allow for weekday/weekend timed programmes)
- Boiler Plus compliant for system boilers when used with a room thermostat

| Product Code | Application |
|--------------|--|
| TST699B1002 | 1-day programmer with separate outputs for heating and hot water |
| ST799A1003 | 7-day programmer with separate outputs for heating and hot water |



10 Way Junction Box

Wiring Accessories

Designed to make wiring our products straightforward, these products help facilitate easier installation.

The 10-way Junction Box, designed to be used in conjunction with the numbered wiring diagrams provided in the Honeywell Home Wiring Guide. This is a universal box and can be used with any 5-amp rated wiring application.

- Compliant with current wiring regulations
- Strain relief on all entries
- Optimised sizing on terminals

The Sundial Plan Wiring Centre can be used with C, S and Y Plan systems and has single terminal connections which are clearly labelled.

- Provision is made for basic and pump overrun boilers
- Dedicated terminal block for each system component
- One wire per terminal connection
- No wiring diagram or additional instructions required
- On the board fuse, plus spare
- Strong, fire-retardant ABS box
- Cable clamps



Wiring Centre

| Product Code | Application |
|--------------|--|
| 42002116-002 | 10-way Junction Box |
| 42005748-001 | Sundial Plan Wiring Centre complete with fuse, spare fuse and cable clamps |

Heating control timeswitches & programmers

Control the timing of your heating or hot water system with either a 7-day or 1-day timer.

Single channel timeswitch controls

The ST9100 single channel timeswitches are designed for control of a single heating zone or combi boiler applications.

The 3 timeswitches in the range are:

- ST9100A – 1-day timeswitch
- ST9100C – 7-day timeswitch to suit 7-day, and 5/2 day, timing profiles
- ST9100S – 1-day timeswitch with a service interval reminder.

There is no difference in the appearance of the ST9100S, the ST9100A and the ST9100C.

All of the models feature:

- Large, clear, high-contrast display for easy set-up
- On-screen instructions providing text feedback that gives help and programming hints. The unit has programme indicator lights so that in-operation checks can easily be made
- Large backlit display which can be set to off, intermittent or continuously on, with no extra energy consumption
- Up to 3 on/off periods per day can be set, and a choice of 3 different built-in programmes, make timing choices easy
- Factory-set clock and date with automatic daylight saving, 1-hour time change facility
- Programmed settings are retained indefinitely in non volatile memory if mains power is lost
- Boiler Plus compliant for system boilers when used with a room thermostat

Additional control is provided through:

- Holiday button allowing programme override for a variable number of days making it easier to set the system for extended absences
- Extra hour facility, for up to 3 hours boost or programme extension
- Temporary or permanent override facilities for total individual control

Installation is easy, as the unit fits onto industry-standard back plates and is suitable for mains, low-voltage or potential-free switching

Service interval reminder

The service timer facility is available on the ST9100S model. This is a reminder on the display when a heating system service is due each year. The service interval can be set to flag up a message, restrict the heating to manual control only, or disable the heating completely. The interval period is adjustable to between 1 and 400 days. All settings are protected by a PIN code that can be set by the installer.



1-day single channel timeswitch ST9100A

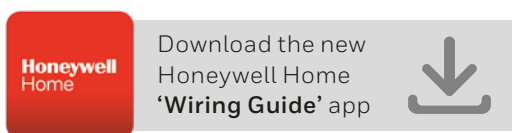


7-day single channel timeswitch ST9100C



1-day single channel timeswitch ST9100S with service interval reminder

| Product Code | Application |
|--------------|---|
| ST9100A1008 | 1-day timeswitch, having two on/off periods per day |
| ST9100C1006 | 7-day timeswitch, having three on/off periods per day |
| ST9100S1007 | 1-day timeswitch, with service interval reminder, having two on/off periods per day |



Download the new Honeywell Home 'Wiring Guide' app



ST9400A Two channel programmer



ST9400C Two channel programmer



ST9400S Two channel programmer with service interval reminder



ST9500C Two zone, two channel programmer

Two channel programmers

The ST9400 range of programmers are two channel programmers with independent timing for control of heating and hot water zones. The 3 programmers in the range are:

- ST9400A – 1-day programmer with two channels
- ST9400C – 7-day programmer, two channels to suit 7-day or 5-day and 2-day timing profiles
- ST9400S – 1-day programmer, two channel model with a service interval reminder

All of the models feature:

- Large, clear, high-contrast display for easy set up
- On-screen instructions, providing text feedback that gives help and programming hints.

The unit has:

- Programme indicator lights so that in operation checks can easily be made
- Large backlit display which can be set to off, intermittent or continuously on, with no extra energy consumption
- Up to 3 on/off periods per day can be set and a choice of 3 different built-in programmes make timing choices easy
- Factory set clock and date with automatic daylight savings, 1-hour time change facility. Programmed settings are retained indefinitely in non-volatile memory if mains power is lost

Additional control is provided through:

- Holiday button allowing programme override for a variable number of days, making it easier to set the system for extended absences
- Extra hour facility, for up to 3 hours boost or programme extension
- Temporary or permanent override facilities for total individual control
- Boiler Plus compliant for system boilers when used with a room thermostat

Installation is easy as the unit fits onto industry standard back plates and is suitable for mains, low-voltage or potential-free switching.

Two zone programmers

ST9500C features and benefits:

- ST9500 is a 2 channel 7-day full programmer designed to control 2 heating zones. Zoning a house not only helps make the heating system more energy-efficient, but can also improve comfort conditions, as each zone will only be heated when required

Additional features are identical to the ST9400 models.

| Product Code | Application |
|--------------|---|
| ST9400A1002 | 1-day programmer, having two on/off periods per day |
| ST9400C1000 | 7-day programmer, having three on/off periods per day |
| ST9400S1001 | 1-day programmer, with service interval reminder, having two on/off periods per day |
| ST9500C1015 | 2 zone, two channel programmer having three on/off periods per day |

Cylinder, Surface Mount & Immersion Thermostats

Our mechanical thermostats for Sundial systems and Mechanical Aquastat thermostats suit a wide variety of water heating control applications. Aquastats are liquid-filled, sensitive, fast-response thermostats, available as either surface mount or immersion versions and with standard control or manual reset to suit a wide range of requirements.



L641A cylinder thermostat



L641B cylinder thermostat



L6190B cylinder thermostat

Hot water thermostats

L641A cylinder thermostat

The L641A cylinder thermostat is designed for surface mounting on domestic hot water cylinders. It can be used to switch directly a wet central heating circulating pump or boiler, or to operate spring return and motor open/close zone valves.

- Ideal for general applications
- Suitable for use on non-insulated and foam-lagged cylinders
- Can be installed either vertically or horizontally
- Surface mounted – easy to fit – no need to drain the system
- Dial or screwdriver slot temperature adjustment

L641B cylinder thermostat

The L641B is a control thermostat designed to provide high or low limit or frost protection in heating and hot water systems.

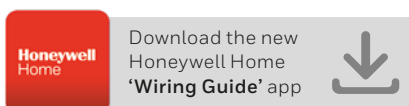
- Ideal for pumped systems
- Tamper-proof adjustment option
- High & low limit models
- Bi-metal strip sensor
- Surface mounted

L6190B cylinder thermostat

The L6190B is a high limit control thermostat, which has a tamper-proof concealed adjustment. The liquid-filled probe means highly responsive temperature control.

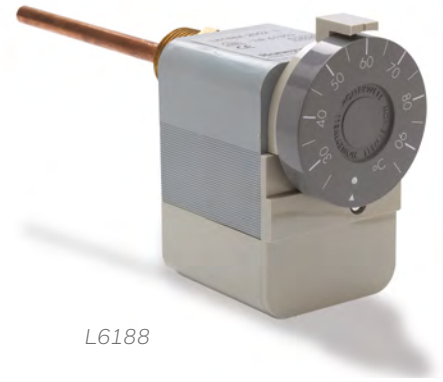
- Commercial construction with a wide temperature range
- Surface mounted – can be installed either vertically or horizontally
- Large adjustment dial for easy temperature setting

| Product Code | Application |
|--------------|--|
| L641A1039 | Cylinder Thermostat, setting 40 to 80°C, Diff. 10°C with strap |
| L6190B1014 | Cylinder Thermostat, setting 25 to 95°C, Diff. 12°C with strap |
| L641B1004 | Controller, setting 10 to 40°C, min. setting 2°C. With pipe fixing springs. Used with T4360A thermostat for Frost Protection Kit |
| L641B1012 | Controller, setting 50 to 95°C. With pipe fixing springs |



Single Aquastat immersion thermostats

The L6188 Aquastat range is primarily designed for use on water-filled heating and hot water systems in domestic and commercial premises. The liquid-filled temperature probe is designed to be inserted into a well in a heat exchanger or pipework. This ensures highly responsive temperature control.



L6188

| Single Aquastat Immersion Thermostats | | | | | |
|---------------------------------------|-------------------|-----------------------------|------------------|--------------|--------------------|
| Product code | Temperature Range | Switching Differential (°C) | Setting Method | Manual reset | Note |
| L6188A2002U | 25–95 °C | 4–10 adjustable | External Dial | No | With well assembly |
| L6188A2010U | 40–110 °C | 4–10 adjustable | External Dial | No | With well assembly |
| L6188A2028U | 25–95 °C | 4–10 adjustable | External Dial | No | 1.5m capillary |
| L6188A2036U | 70–140 °C | 4–10 adjustable | External Dial | No | With well assembly |
| L6188B2018U | 70–140 °C | 4–10 adjustable | Internal Setting | No | 1.5m capillary |
| L6188B2034U2 | 5–95 °C | 4–10 adjustable | Internal Setting | No | With well assembly |
| L6188C2008U | 70–140 °C | – | Internal Setting | Yes | 1.5m capillary |
| L6188C2016U | 25–95 °C | – | Internal Setting | Yes | With well assembly |

| Product code | Features |
|--------------|--|
| L6188A | Aquastat with external control dial |
| L6188B | Aquastat with tamper-proof internal setting |
| L6188C | Aquastat with tamper-proof internal setting and manual reset |

| Aquastat immersion well assembly | |
|----------------------------------|---|
| 45.900.409-003 | Well assembly for single immersion Aquastats. 1/8" BSPT thread. Length 105 mm |
| 45.900.409-007B | Well assembly for dual immersion Aquastats. 1/2" BSPT thread. Length 105 mm |

Surface mount Aquastat thermostats

Two Aquastat thermostats are available:

The L6190B is a control thermostat which has a tamper-proof concealed adjustment. The liquid-filled probe means highly responsive temperature control, ideal for solid fuel applications. The L6190C is a high limit thermostat which requires manual resetting each time the contacts break when temperature rises (typically used on unvented cylinder applications).

- Ideal for solid fuel applications
- Fast thermal response
- Large temperature range
- Double insulated
- Manual reset model
- Adjustable switching differential
- Surface mounted



L6190B



L6190C

| Single Aquastat Immersion Thermostats | | | | | |
|---------------------------------------|-------------------|-----------------------------|------------------|--------------|-----------------------|
| Product code | Temperature Range | Switching Differential (°C) | Setting Method | Manual reset | Note |
| L6190B2014U | 25–95 °C | 12 | External Dial | No | 2 m mounting strap |
| L6190B2030U | 25–95 °C | 4–10 adjustable | Internal Setting | No | 250 mm mounting strap |
| L6190C2004U | 25–95 °C | | Internal Setting | Yes | 2 m mounting strap |

Dual Aquastat immersion thermostats

The L6191 Dual Aquastat combines both the controller and limit thermostats into one common unit, requiring only one direct immersion well. The controller and limit heads are provided with a jumper to minimise wiring. The controller has an external adjustment, while the limit has concealed adjustment with manual reset feature.

- Fast thermal response
- Combined controller and limit
- Double-insulated easy-to-wire terminals
- Optional gold-plated limit contacts for use in thermocouple/ECO applications



L6188

| Single Aquastat Immersion Thermostats | | | | | | |
|---------------------------------------|---------------|----------------------------|-----------------------------|-----------------------------------|--------------|--|
| Product code | Thermostat | Temperature Range | Switching Differential (°C) | Setting Method | Manual reset | Note |
| L6191A2007U | Control Limit | 40-110 °C 40-110 °C | 4-10 adjustable 4 | External Dial Internal Setting | No No | With Well Assembly |
| L6191A2015U | Control Limit | 25-95 °C 101 °C (fixed) | 4 4 | External Dial Internal Setting | No No | Gold Limit contacts for Thermocouple application |
| L6191A2023U | Control Limit | 50-95 °C 101 °C (fixed) | 4 4 | External Dial Internal Setting | No No | Gold Limit contacts for Thermocouple application |
| L6191B2005U | Control Limit | 25-95 °C 40-110 °C | 4 | External Dial Internal Setting | No Yes | With Well Assembly |
| L6191B2013U | Control Limit | 40-110 °C 40-110 °C | 4-10 adjustable | External Dial Internal Setting | No Yes | With Well Assembly |
| L6191B2021U | Control Limit | 70-140 °C 70-140 °C | 4-10 adjustable | External Dial Internal Setting | No Yes | With Well Assembly |



Thermostatic Radiator Valves (TRVs)

HR92 **evohome** Electronic Radiator Valve Controller

Attractively designed

These slim, ergonomically designed radiator controllers will fit on most standard TRV bodies. They are battery powered with a two-year battery life and a battery low reminder visible on both the radiator controller screen and the **evohome** controller screen. The flip-up screen is backlit and can be positioned so that it can be easily viewed or folded away flat.

Full of features

The backlit LCD screen displays the zone name and local set point temperature. The local set point temperature can easily be overridden by turning the dial at the top. Override temperatures can be set in half-degree increments and are effective until the next scheduled temperature change. There is an open window feature that recognises a sudden temperature drop and shuts off the local radiator.



Easily integrated into the **evohome** control system

Simple to install

Radiator controllers provide the optimum solution for installers when considering installing heating zones, as there are no additional zone valves required, which makes installation a lot quicker and cleaner. With existing TRV bodies already in place there is no need to drain down the system, and they will fit on most compact radiators.

| | |
|---------|--|
| HR924UK | The evohome Radiator Multi-Zone Kit 4 wireless thermostatic Radiator Controllers |
| HR92UK | 1 x evohome Radiator Controller |

HR90 Locally Programmable Electronic Thermostatic Radiator Valve Controller

A 'stand-alone' electronic thermostatic radiator controller with three levels of preset time control allowing an additional level of control.

- Different operating modes and particular day functions
- Times/temperatures set locally using the keys and display on the HR90 head
- Easy-to-read backlit display
- Quick to install.

Cannot be integrated into the **evohome** wireless radiator control system.

| | |
|------|---|
| HR90 | Electronic Thermostatic Radiator Controller |
|------|---|



HR91 Radiator Valve Controller



The HR91 is a wireless radiator controller for use as part of the **evohome** multi-zoning heating control system. It has a non-intrusive design that will suit areas of high footfall or when the **evohome** radiator controller will not be visible during normal operations. It sits alongside the HR92 radiator controller in the range of **evohome** products.

- Fits on most standard TRV bodies (adaptors available)
- Battery powered with a two-year battery life
- Basic override button for setting frost protection
- Child lock mechanism on the controller with simple mounting lock
- Automatic window-open detection function
- Anti-vandal protection shield (available as an accessory)



KOMBI TRV

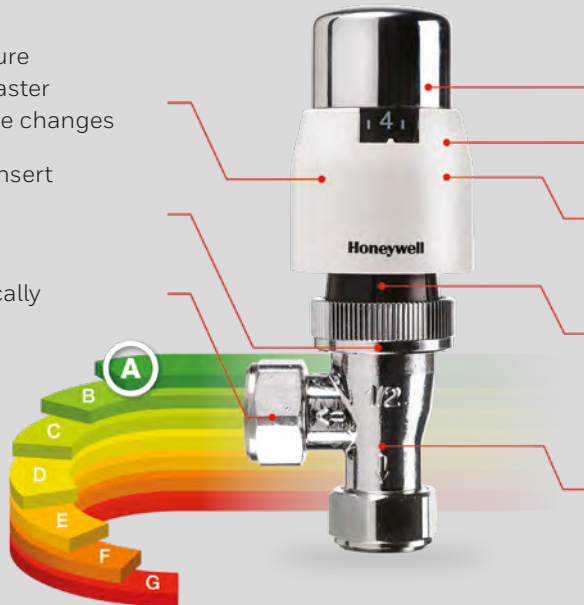
A pressure independent radiator valve allowing easy hydronic balancing of smaller two-pipe systems. It controls the set flow rate at each radiator or heat exchanger regardless of varying differential pressure conditions in the heating system, and thus

ensures optimum control of the room temperature and increased energy efficiency.

- Designed with durability and robustness as the primary objective.
- Simple, fail-safe design
- The large regulator membrane enables a 60% stronger regulator setting force
- The best way for fast, safe and efficient hydronic balancing increasing the efficiency of the entire system

Valencia TRV features

- Liquid-filled temperature measurement allows faster reaction to temperature changes
- Integrated balancing insert ensures easy efficient system balancing
- Can be mounted vertically or horizontally
- 'A' rated for efficiency



- Setting measurement provides visual reference of setting points
- Unobtrusive, stylish design
- Replacement heads with different finishes available for all our TRVs
- TRV heads will also fit Valencia manual valve bodies as well as other standard non-Honeywell-Home TRVs (an adaptor may be required)
- Stylish fluted body used with the Classic, Traditional and matching manual valves will also fit a wide range of other Honeywell Home TRV heads including **evohome** Radiator Controllers

Valencia Classic TRV

The Classic TRV senses the air temperature around it and can limit room temperature by regulating individual radiator output in wet central heating systems. Mounted on the matching Valencia valve body, this TRV can be visually matched with any other Honeywell Home TRV.

- A-rated energy-saving performance
- Bi-directional flow valves – fit to either end of radiator with no need to change valve flow direction after installation
- Liquid sensor provides consistent and long-lasting performance
- Sensor head may be mounted vertically or horizontally by using the interchangeable radiator tail and copper tube fittings
- Set and forget integrated balancing insert reduces risk of call back
- Classic good looks designed to appeal to homeowners
- The insert can be removed and replaced without draining down using a special tool
- 6 mm play on radiator tail piece to allow for variation in radiator distance from valve.

| | |
|---------------|---|
| VT200-15A | Classic TRV 15 mm Angled Body |
| VT200-15S | Classic TRV 15 mm Straight Body |
| VTL200-08A | Classic TRV + Lockshield: 8 mm Angled Body |
| VTL200-08S | Classic TRV + Lockshield: 8 mm Straight Body |
| VTL200-10A | Classic TRV + Lockshield: 10 mm Angled Body |
| VTL200-10S | Classic TRV + Lockshield: 10 mm Straight Body |
| VTL200-15A | Classic TRV + Lockshield: 15 mm Angled Body |
| VTL200-15A-D | Classic TRV + Lockshield: 1x Drain-off Tail Piece 15 mm Angled Body |
| VTL200-15A-DP | Classic TRV + Lockshield: 1x Drain-off Tail Piece 2 x 10 mm Push fittings; 15 mm Angled Body |
| VTL200-15A-P | Classic TRV + Lockshield: 2 x 10 mm Push fittings; 15 mm Angled Body |
| VTL200-15S | Classic TRV + Lockshield: 15 mm Straight Body |
| VTL200-15S-D | Classic TRV + Lockshield: 1x Drain-off Tail Piece 15 mm Straight Body |
| VTL200-15S-DP | Classic TRV + Lockshield: 1x Drain-off Tail Piece; 2 x 10 mm Push fittings; 15 mm Straight Body |
| VTL200-15S-P | Classic TRV + Lockshield: 2 x 10 mm Push fittings; 15 mm Straight Body |

Upgradeable TRV heads with different finishes

Match the TRV head to the decor of the room – easily interchangeable heads available as accessory packs. Will fit all Honeywell Home TRV Bodies and many non-Honeywell Home TRVs. Contact Honeywell for further information.



T4221GB

Polished Chrome

T4111GB

Brushed Chrome

T4321GB

Black & Chrome

T4021GB

White & Chrome

Valencia Traditional TRV

The Valencia valve and matching lockshield valve uses the stylish manual body to ensure there is a common look and feel in all situations where you need an electronic, a classic or a traditional TRV or a manual valve.

- A-rated energy saving performance
- Liquid sensor provides consistent and long-lasting performance
- Bi-directional flow valves – fit to either end of radiator with no need to change valve flow direction after installation
- Sensor head may be mounted vertically or horizontally by using the interchangeable radiator tail and copper tube fittings
- Set and forget integrated balancing insert reduces risk of call back
- 6 mm play on radiator tail piece to allow for variation in radiator distance from valve
- Easy grip, non-slip TRV head design
- Energy-saving button alerts user to the economical setting for comfort
- The insert can be removed and replaced without draining down using a special tool.



| | |
|---------------|--|
| VT117-15A | Traditional TRV 15 mm Angled Body |
| VT117-15S | Traditional TRV 15 mm Straight Body |
| VTL120-08A | Traditional TRV + Lockshield: 8 mm Angled Body |
| VTL120-08S | Traditional TRV + Lockshield: 8 mm Straight Body |
| VTL120-10A | Traditional TRV + Lockshield: 10 mm Angled Body |
| VTL120-10S | Traditional TRV + Lockshield: 10 mm Straight Body |
| VTL120-15A | Traditional TRV + Lockshield: 15 mm Angled Body |
| VTL120-15A-D | Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 15 mm Angled Body |
| VTL120-15A-DP | Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 2 x 10 mm Push fittings; 15 mm Angled Body |
| VTL120-15A-P | Traditional TRV + Lockshield: 2 x 10 mm Push fittings; 15 mm Angled Body |
| VTL120-15S | Traditional TRV + Lockshield: 15 mm Straight Body |
| VTL120-15S-D | Traditional TRV + Lockshield: 1 x Drain-off Tail Piece 15 mm Straight Body |
| VTL120-15S-DP | Traditional TRV + Lockshield: 1 x Drain-off Tail Piece; 2 x 10 mm Push fittings; 15 mm Straight Body |
| VTL120-15S-P | Traditional TRV + Lockshield: 2 x 10 mm Push fittings; 15 mm Straight Body |

Valencia Manual Radiator Valve Pack

Using the Valencia Manual Radiator Valve Pack ensures you can visually match with our electronic, traditional and classic TRV heads. The Manual Valve allows the user to switch the radiator on/off, and the lockshield valve limits water flow through individual radiators in wet central heating systems. The valves can be mounted vertically or horizontally at either end of a radiator.

- Bi-directional flow design
- Positive shut off
- The insert can be removed and replaced without draining down using a special tool.

| | |
|---------------|--|
| VHL120-08A | Manual Valve + Lockshield: 8 mm Angled Body |
| VHL120-08S | Manual Valve + Lockshield: 8 mm Straight Body |
| VHL120-10A | Manual Valve + Lockshield: 10 mm Angled Body |
| VHL120-10S | Manual Valve + Lockshield: 10 mm Straight Body |
| VHL120-15A | Manual Valve + Lockshield: 15 mm Angled Body |
| VHL120-15A-D | Manual Valve + Lockshield: 1 x Drain-off Tail Piece 15 mm Angled Body |
| VHL120-15A-DP | Manual Valve + Lockshield: 1 x Drain-off Tail Piece 2 x 10 mm Push fittings; 15 mm Angled Body |
| VHL120-15A-P | Manual Valve + Lockshield: 2 x 10 mm Push fittings; 15 mm Angled Body |



| | |
|---------------|---|
| VHL120-15S | Manual Valve + Lockshield: 15 mm Straight Body |
| VHL120-15S-D | Manual Valve + Lockshield: 1 x Drain-off Tail Piece 15 mm Straight Body |
| VHL120-15S-DP | Manual Valve + Lockshield: 1 x Drain-off Tail Piece; 2 x 10 mm Push fittings; 15 mm Straight Body |
| VHL120-15S-P | Manual Valve + Lockshield: 2 x 10 mm Push fittings; 15 mm Straight Body |

VT15 Thermostatic Radiator Valve

The VT15 Radiator Thermostat, which has full CEN Standard approval to EN215, regulates individual radiator output in wet central heating systems.

- Bi-directional valve body and can be mounted vertically or horizontally at either end of the radiator
- 6 mm of play on radiator tail piece to allow for variation in radiator distance from valve
- Wax sensor provides consistent and reliable performance
- Range stops included in head
- The insert can be removed and replaced without draining down using a special tool.



| | |
|----------|--|
| VT15AG | Thermostatic Lockshield Valve with Reversible Flow, Angled Body and 8 mm Compression connection and 15 mm radiator tailpiece |
| VT15BG | Thermostatic Radiator Valve with Reversible Flow, Angled Body and 10 mm Compression connection and 15 mm radiator tailpiece |
| VT15EG | Thermostatic Radiator Valve with Reversible Flow, and 15 mm Compression connection and 15 mm radiator tailpiece |
| VX15EG-A | Radiator lockshield valve with 15 mm Compression connection and 15 mm radiator tailpiece |
| T9002WO | Replacement Thermostatic Head |

Designer Radiator Valve Bodies and matching Lockshield Valves

Introduced for use with Designer Radiators and Towel Rails, our Designer TRV bodies are compatible with all Honeywell Home TRV heads, including **evohome** wireless heads. Includes matching compression nuts and olives.

| | |
|--------------|--|
| TRC15DRLLCBG | 15 mm Chrome Left Reverse Angle TRV body and Lockshield Valve |
| TRC15DLRLCBG | 15 mm Chrome Right Reverse Angle TRV body and Lockshield Valve |
| TRW15DRLLCBG | 15 mm White Left Reverse Angle TRV body and Lockshield Valve |
| TRW15DLRLCBG | 15 mm White Right Reverse Angle TRV body and Lockshield Valve |



TRC15DRLLCBG



TRW15DRLLCBG



TRC15DLRLCBG



TRW15DLRLCBG

TRV Accessories

Our thermostatic and manual radiator valves are supported by a wide range of replacement heads and other accessories. These are designed to ensure that whatever application you need to cater for, there is a Honeywell Home product you can use.

Robust TRV heads

Ideal for public buildings, schools, etc.

| | |
|---------|--|
| T7001W0 | Robust TRV Head with inbuilt range stops |
| T700120 | Robust TRV Head with 2.0m remote sensor |



Remote TRV heads

Ideal for concealed and low surface temperature radiators.

| | |
|-----------|--------------------------------|
| T95012OWO | 2.0m Remote Sensor and control |
| T95015OWO | 5.0m Remote Sensor and control |



Traditional TRV head

Replace old, damaged or discoloured Traditional TRV heads with a new Traditional head.

| | |
|-----------|---|
| T1001W0GB | Replacement Valencia Traditional TRV Head |
|-----------|---|



Valve Accessories

Choose from a range of useful replacement parts or add integrated balancing or theft protection.

| | |
|-----------|-------------------------------------|
| H100-1/2A | Pack of 10 replacement Manual Heads |
|-----------|-------------------------------------|



| | |
|------------|---------------------------------|
| TA6900A001 | White TRV Theft Protection Ring |
|------------|---------------------------------|



| | |
|----------|---|
| V120-15A | 'Angled' Valencia TRV body with integrated balancing insert |
|----------|---|



| | |
|--------------|--|
| VS1200SLGB11 | Replacement Valencia Integrated Balancing Insert |
|--------------|--|



The V120-15A can also be used with an **evohome** HR92 if a replacement TRV body is required.

| | |
|------------|---|
| VA8200A001 | Valencia Insert replacement and cleaning tool |
|------------|---|



| | |
|----------|---|
| V120-15S | 'Straight' Valencia TRV body with integrated balancing insert |
|----------|---|

Motorised Zone Valves

Control the flow of hot water to the heat source (radiator or stored hot water)

The range of leading motorised zone valves provides a full set of solutions to suit all domestic heating installations. The two-port motorised valve has a wide range of flow control applications in domestic and light commercial central heating systems. The motorised mid-position valves have been designed to control the flow of water in domestic central heating systems, where both radiator and hot water cylinder circuits are pumped. They are typically suited to small to medium sized installations. The motorised diverter valves are replacement products and have been designed to control the flow of water between heating and hot water in domestic fully pumped central heating systems.



V4043 Motorised Two Port Zone Valve

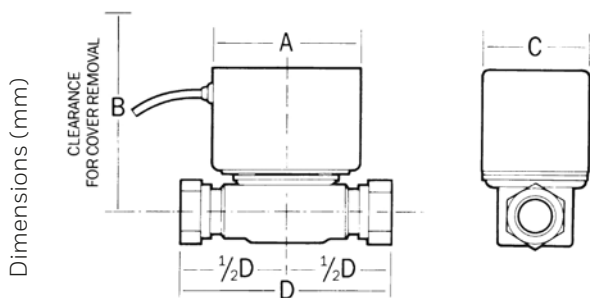
The V4043 series of two-port Motorised Valves has a wide range of flow control applications in domestic and light commercial central heating systems.

The V4043H normally closed models have end switches for electrical control of pump and/or boiler. The V4043B normally open models are particularly applicable to control of solid fuel systems, since they will always fail-safe in the event of a power failure.

- Motor open
- Spring return action
- Manual lever for filling and draining the system
- Powerhead replaceable without draining down
- Potential free end switch for electrical control of pump and/or boiler
- Quiet operation, minimal power consumption.

Options

- Normally open and normally closed versions available
- 22 mm/28 mm or 1/2", 3/4", 1" BSP connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.



| Dimensions (mm) | | |
|-----------------|------|-----|
| A | 87 | |
| B | 98 | |
| C | 60 | |
| D | 1/2" | 94 |
| | 2mm | 112 |
| | 1" | 92 |
| | 28mm | 127 |

| Specifications – All Motorised Valves | |
|---------------------------------------|--|
| Power Supply | 230 VAC 50Hz |
| Power Consumption | 6W |
| Electrical Connections | 1m flying lead, heat resistant cable |
| Timings (Nominal) | Valve opens to Port A (from Port B) in 18 seconds (under power). Valve opens to Port B in 8 seconds (under spring return). Continuous operation of the valve motor at the fully open position (Port A only) is not recommended |
| Ambient Temperature Range | 5 to 50°C |
| Flow Temperature | 5 to 88°C |
| Static Pressure | 8.6 bar max |
| Flow Directions | Inlet Port AB: Port A open when energised; Port B open when de-energised |
| Standards & Approvals | CE, UL, CSA 89/336/EEC & 73/23/EEC |

| | |
|------------|--|
| V4043B1257 | Normally open, 22 mm compression. No end switch. No manual lever. 6.9 kV. Maximum close-off differential pressure 0.55 bar |
| V4043B1265 | Normally open, 28 mm compression. No end switch. No manual lever. 8.6 kV. Maximum close-off differential pressure 0.45 bar |
| V4043C1156 | Normally closed, 1/2" BSP female. No end switch. 3.0 kV. 1.38 bar max differential pressure |
| V4043H1056 | Normally closed, 22 mm compression. SPST end switch. 6.9 kV. 0.55 bar max differential pressure |
| V4043H1007 | Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure |
| V4043H1106 | Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure |
| V4043H1080 | Normally closed, 3/4" BSP connections fittings. SPST end switch. 6.9 kV. 0.55 bar max differential pressure |

V4073A Motorised Mid-Position Valve

The V4073A Motorised Mid-Position Valve has been designed to control the flow of water in domestic central heating systems, where both radiator and hot water cylinder circuits are pumped. It is typically suited for small to medium sized installations.

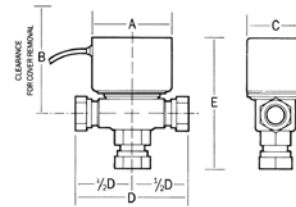
- Spring return action
- Three position operation
- Powerhead replaceable without draining down
- Manual lever for filling/draining down
- Quiet operation, minimal power consumption
- Provides electrical output to boiler and/or pump.

Options

- 22 mm/28 mm or 1/2", 3/4", 1" connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.



Dimensions (mm)



| | |
|------------|--|
| V4073A1039 | 22 mm compression. 6.0 kV. Maximum close-off differential pressure 0.69 bar |
| V4073A1054 | 3/4" BSP Female compression fittings. 6.0 kV. Maximum close-off differential pressure 0.69 bar |
| V4073A1088 | 28 mm compression. 8.1 kV. Maximum close-off differential pressure 0.55 bar |
| V4073A1062 | 1" BSP Female compression fittings. 8.1 kV. Maximum close-off differential pressure 0.55 bar |

| | | |
|---|------------------------------|--------------------------|
| A | 87 | |
| B | 98 | |
| C | 60 | |
| D | 3/4" 22 mm 1" 28 mm | 94 112 94 117 |
| E | 3/4" 22 mm 1" 28 mm | 124 133 124 137 |

V4044C Motorised Diverter Valve

The V4044C Motorised Diverter Valve has been designed to control the flow of water between heating and hot water in domestic fully pumped central heating systems. The Diverter Valve will only allow flow to one zone at any one time. The V4044 is used in the Sundial W Plan Hot Water priority system.

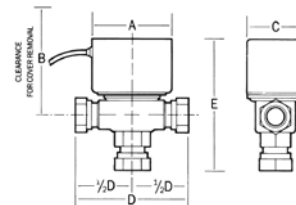
- Spring return action
- Two position operation
- Powerhead replaceable without draining down
- Manual lever for filling/draining down
- Quiet operation, minimal power consumption
- Provides electrical output to boiler and/or pump

Options

- 22 mm/28 mm or 1/2", 1" connections
- Replacement motor, replacement powerhead and replacement ball
- 'O' ring kit available.



Dimensions (mm)



| | |
|------------|---|
| V4044C1288 | 22 mm compression. 6.0 kV. Maximum close-off differential pressure 0.69 bar |
| V4044C1098 | 3/4" BSP Female compression fittings. 6.0 kV. Max. close-off differential pressure 0.69 bar |
| V4044C1569 | 28 mm compression. 8.1 kV. Maximum close-off differential pressure 0.55 bar |
| V4044C1494 | 1" BSP Female compression fittings. 8.1 kV. Max. close-off differential pressure 0.55 bar |

| | | |
|---|------------------------------|--------------------------|
| A | 87 | |
| B | 98 | |
| C | 60 | |
| D | 3/4" 22 mm 1" 28 mm | 94 112 94 117 |
| E | 3/4" 22 mm 1" 28 mm | 124 133 124 137 |

Motorised Zone Valve Spares



Replacement Motor Kit

The 40002737-003 Replacement Motor is suitable for all V4043 two port valves, V4044 three port diverter valves, and V4073 mid-position diverter valves, irrespective of valve body size and pipe connection type. The 40001011-002 Replacement Motor is suitable for old-style V8043 and V8044 motorised valves.

It may also be used to provide 24 volt 50Hz motor operation on V4043 and V4044 series valves.

- One motor for all V4043, V4044 and V4073 series motorised valves
- Two-wire connection – polarity-free
- Insulated screw connectors provided.

Option

- 24 volt 50 Hz motor.

Replacement Powerhead and Spares

The 40003916 Powerheads enable the complete powerhead assembly to be replaced without draining down on V4043, V4044 and V4073 series valves. On older style valves pre-1985, which do not have the replaceable head feature, the adaptor plate assembly can be used to upgrade the valves, to allow the replaceable powerhead to be used.

- One powerhead for each valve series
- Powerhead assembly can be replaced without draining down
- VC valve cartridges can be replaced without draining down.

Option

- Adapter plate assembly allows old-style valves to be updated to replaceable powerhead type
- Ball and 'O' ring kit.

| Type | Product Code | Description | For Which Valves |
|--------------------------------------|----------------|--|---|
| Replacement Motor Kits | | | |
| 240 VAC replacement motor | 40002737-003 | Replacement motor kit with spare connectors, screws and full instructions | V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve |
| 24 VAC replacement motor | 40001011-002 | Replacement motor kit for low voltage applications with spare connectors, screws and full instructions | V4043A Motorised Zone Valve V4044C Motorised Diverter Valve |
| Replacement Powerheads | | | |
| Replacement Powerhead | 40003916-001 | Complete Powerhead Assembly | V4043 Motorised Zone Valve |
| Replacement Powerhead | 40003916-002 | Complete Powerhead Assembly | V4073 Motorised Mid-position Diverter Valve |
| Replacement Powerhead | 40003916-003 | Complete Powerhead Assembly | V4044 Motorised Diverter valve |
| Plate & Ball Assembly Kit | | | |
| Plate & ball assembly kit | 40003918-006 | Plate & ball assembly kit – use with valves that do not have replaceable heads (Pre-1985) | V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve |
| Replacement O Ring Kit | | | |
| Replacement O ring kit | 272752A/U CARD | Replacement ball & O ring kit | V4043 Motorised Zone Valve V4073 Motorised Mid-position Diverter Valve V4044 Motorised Diverter Valve |

Domestic Heating System Valves

Our range of automatic bypass valves is particularly beneficial in improving boiler efficiency and improving control of systems fitted with TRVs, through effective control of water flow. Our range of valves saves energy by only allowing flow through the bypass when needed. Building regulations state that if a bypass is installed, an automatic bypass valve must be fitted.

EA122 Automatic Air Vent

The Automatic Air Vent EA122 is suitable for heating systems and other closed circuit hot water systems (not potable water) which require the efficient, automatic removal of air when a system is filling with water.

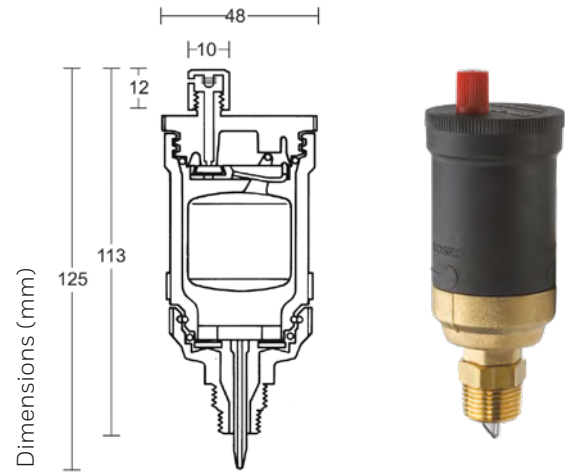
The vacuum break on the bottom of the valve prevents an air lock forming and encourages air to be released from water. The air vent can be fitted anywhere in the positive pressure side of the system where air is likely to be trapped.

Air vents should always be fitted in an accessible area which can be seen and serviced easily.

- Integral stop valve enables seat to be cleaned without draining the system
- Vacuum break ensures air collection
- Simple servicing and cleaning
- 1/8" and 3/8" BSP connections
- Expanding disc under cap helps prevent leaks due to dirt under seat
- 1/8" to 1/2" adaptor.

Option

- Q122A facilitates waste connection to air vent.



| | |
|------------|--|
| EA122 – AB | Automatic air vent with 1/8" and 3/8" BSP connections and 1/2" adaptor |
| Q122A1001 | Female iron fitting, to facilitate outlet connection to a waste pipe. Size: M8 – 6 mm compression |

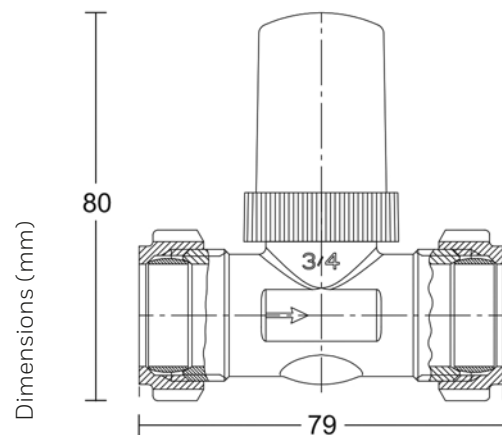
DU144 Automatic Bypass Valve

The DU144 Automatic Bypass Valve controls the flow of water through a bypass circuit which is installed between flow and return pipework, typically at or near the boiler.

Building regulations advice states that if a bypass is installed, an automatic bypass valve must be fitted.

The DU144 saves energy by only allowing flow through the bypass when needed, i.e. when flow through the system is reduced when zone valves or radiator thermostats are closing.

- Unique and simple adjustment mechanism
- Wide differential pressure range from 0.1 to 0.6 bar
- 22 mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
- Lockable set pressure prevents inadvertent adjustment
- Factory set at 0.2 bar.



| | |
|------------|---|
| DU144A1001 | Automatic bypass valve with set pressure scale and protective cap, with 22 mm compression connections |
|------------|---|

The DU144 Automatic Bypass Valve can serve two functions: a) as a boiler bypass as required by boiler manufacturers, b) as a system bypass to accommodate pump overrun and to alleviate system noise that can be caused by increased pressure when thermostatic radiator valves or zone valves close down



DU145 Angled Automatic Bypass Valve

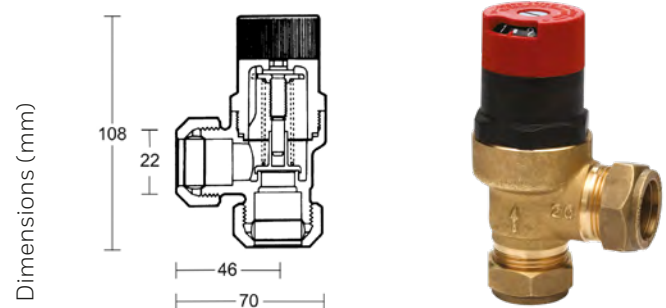
The DU145 Automatic Bypass Valve controls the flow of water through a bypass circuit which is installed between flow and return pipework. Building regulations advice states that if a bypass is installed, an Automatic Bypass Valve must be fitted.

The DU145 saves energy by only allowing flow through the bypass when needed, i.e. when flow through the system is reduced when zone valves or radiator thermostats are closing.

The use of an Automatic Balancing Valve is recommended by the UK government as Best Practice in the CHeSS (Central Heating System Specifications) guide to central heating systems.

- Unique and simple adjustment mechanism
- High capacity flow – up to 50 litres per minute
- Wide differential pressure range from 0.1 to 0.6 bar
- 22 mm compression fittings for ease of installation
- Reduces system noise and maintains an even system pressure
- Ensures constant flow through boiler
- Lockable set pressure prevents inadvertent adjustment.

| | |
|---|--|
| DU145 - 3/4B | Automatic bypass valve with set pressure indicator, lockable adjustment knob and 22 mm compression connections |
| DU145 Automatic bypass valve can serve two functions: a) as a boiler bypass as required by boiler manufacturers, b) as a system bypass to accommodate pump overrun and to alleviate system noise that can be caused by increased pressure when thermostatic radiator valves or zone valves close down | |



Locking: Both DU144 & DU145 Valves: Once pressure has been set according to the scale below, the valve locks in position by tightening the screw on the cap.

| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| Scale | 1 | 2 | 3 | 4 | 5 | 6 |
| Bar | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 |

VF06 Sealed System Filling Valve

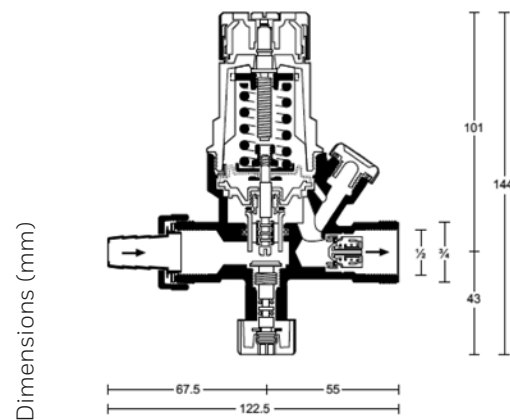
The VF06 is a combination filling valve for sealed heating systems, incorporating a pressure-reducing valve, stop valve, a non-return valve and hose connections. Factory set to 1.5 bar, the VF06 can be adjusted on site to between 0.5 and 3.0 bar.

The VF06 ensures that the system is not inadvertently over pressurised while filling, which can cause damage to heat exchangers, expansion vessels and joints. It also enables quick and trouble-free refilling of the system should pressure loss occur.

- Automatic filling
- Unique and simple adjustment mechanism
- Integral stop valve
- Integral non-return valve
- Integral strainer
- Pressure gauge tapping.

Options

- Hose union or threaded union connector
- Accessory MF126 – A4 pressure gauge with 0 to 4 bar range.



| | |
|--------------|---|
| VF06 - 1/2 A | Filling valve with 1/2" hose connection |
| VF06 - 1/2 B | Filling valve with 1/2" threaded union connection |
| MF126 - A4 | 0 to 4 bar pressure gauge with 1/4" connection |
| D06FA - 1/2 | Spare valve insert complete |

| Specifications | |
|--------------------------|---------------------------------|
| Maximum working pressure | 16 bar |
| Maximum temperature: | 70°C |
| Outlet pressure: | Adjustable 0.5 to 3.0 bar |
| Factory set: | 1.5 bar |
| Connection size: | 1/2" BSP female & 3/4" BSP male |
| Pressure gauge tapping: | 1/4" BSP |
| Housing material: | Brass |



Variable Orifice Static Balancing Valves

For many years the most common design for hydronic heating and air conditioning systems was based upon constant flow with fixed speed pumps, all sized to match the maximum load of the system and balanced using manually set, 'static' balancing valves.

Honeywell Home's Kombi-2-Plus and Kombi-F are combined shut-off and variable orifice, static balancing valves for use in return water flow circuits in both heating and chilled water systems.

Both valves use the Honeywell Home SafeCon™ leak minimiser measuring connections.

V5032 Kombi-2-Plus

The Kombi-2-plus is installed in the return mains of pump-driven water-based heating systems and cold water cooling systems to regulate the hydronic balance and as a shut-off valve. The valve body can be insulated easily and is equipped with pressure test cocks for differential pressure or flow measurement.

- Red bronze valve body with brass valve insert and pressure test cocks
- Visible pre-setting dial with concealed pre-setting wheel
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Zero-maintenance due to double O-ring spindle seals.



| Product code | DN Size | Kvs Value |
|--------------|---------|-----------|
| V5032Y0015A | 15 | 2.8 |
| V5032Y0020A | 20 | 5.8 |
| V5032Y0025A | 25 | 6.9 |
| V5032Y0032A | 32 | 20.1 |
| V5032Y0040A | 40 | 20.2 |
| V5032Y0050A | 50 | 45.3 |
| V5032Y0065A | 65 | 45.3 |
| V5032Y0080A | 80 | 73 |

V6000 Kombi-F

The Kombi-F is a flanged range of 'variable orifice' Static Balancing valves. It is also the 'partner valve' for the V5001PF 'flanged' Kombi-Auto. Installed in the return mains of pump-driven water-based heating systems and cold water cooling systems to regulate the hydronic balance and act as a manual shut-off valve. The valve body can be insulated easily and is equipped with pressure test cocks for differential pressure or flow measurement.

- Variable orifice balancing valve
- Grey cast iron valve body
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Stainless steel valve insert
- PTFE seat seal
- Sizes: 20 mm to 400 mm flanged connections
- SafeCon™ measuring connections



| Product code | DN Size | Kvs Value |
|--------------|---------|-----------|
| V6000D0025A | 15 | 9.80 |
| V6000D0032A | 32 | 15.1 |
| V6000D0040A | 40 | 24.9 |
| V6000D0050A | 50 | 48.5 |
| V6000D0065A | 65 | 74.4 |
| V6000D0080A | 80 | 111 |
| V6000D0100A | 100 | 165 |
| V6000D0125A | 125 | 242 |
| V6000D0150A | 150 | 372 |
| V6000D0200A | 200 | 704 |
| V6000D0250A | 250 | 812 |
| V6000D0300A | 300 | 1380 |
| V6000D00350A | 350 | 1651 |
| V6000D00400A | 400 | 2383 |

Differential Pressure Control Valves

Variable-flow systems have risen in popularity primarily because they reduce a system's energy consumption. They use variable-speed, inverter-driven pumps, the speed of which is changed to match the system load.

2-port, motorised control valves are used to control the heating/chilled water flow to (typically) fan coil units, or thermostatic radiator valves to regulate flow.

- Easy to install
- Easy to set
- Easy to commission
- Improved efficiency
- Reduces noise
- Minimise leaks with SafeCon™ connections

V5001PY Kombi-Auto

Differential Pressure Control Valve

The V5001PY Kombi-Auto differential pressure control valve is used to automatically maintain a hydronic balance in residential or commercial hydronic heating and cooling systems. It is installed in the return pipeline. It is used in systems with variable volume flows – for example, two-pipe heating systems – and creates a hydronic balance by keeping differential pressure at a constant preset level even under changing flow or pump pressure conditions.

- Red bronze valve body
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Stainless steel valve insert
- PTFE seat seal
- 15 mm to 50 mm internal thread connections
- Optional SafeCon™ measuring connections
- Impulse tube included.



| Product code | DN Size | Kvs Value | Pressure Range | Flow Range L/h |
|--------------|---------|-----------|----------------|----------------|
| V5001PY1015 | 15 | 3.6 | 5–35 kPa | 40–1700 |
| V5001PY1020 | 20 | 5.8 | 5–35 kPa | 60–2600 |
| V5001PY1025 | 25 | 7.1 | 5–35 kPa | 100–3000 |
| V5001PY1032 | 32 | 15.4 | 5–35 kPa | 150–6500 |
| V5001PY1040 | 40 | 22 | 5–35 kPa | 200–9000 |
| V5001PY1050 | 50 | 35.8 | 5–35 kPa | 450–19000 |
| V5001PY2015 | 15 | 3.6 | 30–60 kPa | 50–1900 |
| V5001PY2020 | 20 | 5.8 | 30–60 kPa | 50–3000 |
| V5001PY2025 | 25 | 7.1 | 30–60 kPa | 100–3500 |
| V5001PY2032 | 32 | 15.4 | 30–60 kPa | 200–10000 |
| V5001PY2040 | 40 | 22 | 30–60 kPa | 250–13000 |
| V5001PY2050 | 50 | 35. | 8 30–60 kPa | 500–20000 |

V5001S Kombi-S

Matching Differential Valve/Shut-Off Valve

The V5001S Kombi-S shut-off valve is used to shut off pipelines in residential or commercial hydronic heating and cooling systems. It can be installed in either supply or return pipeline.

- Red bronze valve body
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Stainless steel valve insert
- PTFE seat seal
- 15 mm to 50 mm internal thread connections
- Optional SafeCon™ measuring connections.



| Product code | DN Size | Kvs Value |
|--------------|---------|-----------|
| V5001PF1065 | 15 | 4.7 |
| V5001PF1080 | 20 | 8.1 |
| V5001PF1100 | 25 | 10.7 |
| V5001PF2065 | 32 | 23.3 |
| V5001PF2080 | 40 | 35.3 |
| V5001PF2100 | 50 | 48.8 |

V5001PF Kombi-Auto

Differential Pressure Control Valve

Pressure regulation with the Kombi-Auto Differential Pressure Control Valve is intended for use in systems with variable flow requirements and is designed to maintain the hydraulic balance by keeping the pressure drop at a constant pre-set level (even under changing flow rate) in hydraulic heating and cooling systems.

- Grey cast iron valve body
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Stainless steel valve insert
- Pressure ranges 20 kPa – 100 kPa or 40 kPa – 200 kPa
- 65 mm to 100 mm flanged connections
- SafeCon™ measuring connections
- Impulse tube included.



| Product code | DN Size | Kvs Value | Pressure Range | Flow Range L/h |
|--------------|---------|-----------|----------------|----------------|
| V5001PF1065 | 65 | 52 | 20–100 kPa | 600–49000 |
| V5001PF1080 | 80 | 75 | 20–100 kPa | 600–70000 |
| V5001PF1100 | 100 | 96 | 100 kPa | 1100–90000 |
| V5001PF2065 | 65 | 52 | 40–200 kPa | 750–75000 |
| V5001PF2080 | 80 | 75 | 40–200 kPa | 750–95000 |
| V5001PF2100 | 100 | 96 | 40–200 kPa | 2000–136000 |

V6000 Kombi-F

Matching Differential Valve/Shut-Off Valve

Whilst the V6000 Kombi-F is used as a static balancing valve, it has also been designed to act as a partner valve to the V5001PF Kombi-Auto DPCV, when used to control system pressure differentials.

This valve also acts as a shut-off valve when required.

- Grey cast iron valve body
- System pressure rating PN16
- Water/water + glycol mixture 2 °C to 130 °C
- Stainless steel valve insert
- PTFE seat seal
- 65 mm to 100 mm flanged connections
- SafeCon™ measuring connections.



| Product code | DN Size | Kvs Value |
|--------------|---------|-----------|
| V6000D0065A | 65 | 74.4 |
| V6000D0080A | 80 | 111 |
| V6000D0100A | 100 | 165 |





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Resideo Technologies, Inc.
200 Berkshire Place
Winnersh
Berkshire
RG41 5RD



ErP energy efficiency ratings

The ErP energy efficiency ratings shown in this brochure will provide installers and end users with the information required to both complete the ErP energy label and assess the benefits of the heating controls to the overall heating system in the property. These ratings apply to room thermostats (including programmable thermostats).

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