UFH10-RF

RF Wiring Centre



Installation and Operation Guide

EPH CONTROLS

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UFH10-RF - 10 x Underfloor Heating Zones - RFRB^{V2} & RFR^{V2} 15

UFH10-RF - 9 x Underfloor Heating Zones & 1 Hot Water Zone - RFRB^{V2}, RFR^{V2} & RFC^{V2} 16

UFH10-RF - 10 x Underfloor Heating Zones - CDT2-RF, RDT-RF & HDT-RF 17

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UFH10-RF - 8 x Underfloor Heating Zones, 1 Hot Water Zone, 10 Radiator Zones - RFRB^{V2}, RFC^{V2} & eTRV 19

How your Underfloor Wiring Centre works

The UFH10-RF is designed to manage & control the distribution of heat throughout the different zones of your underfloor heating system. The wiring centre provides a centralised point for installing & managing your system. Each zone can be independently controlled to meet the specific heating requirements of that area. The UFH10-RF receives information via radio frequency from your wireless thermostats & operates the actuators or valves for that zone accordingly.

The wiring centre display provides users with information about the heating system including temperature readings. The wiring centre can integrate with the GW04 gateway allowing the user to control & monitor their underfloor heating system from their smart phone or tablet. In summary the UFH10-RF acts as the brain of the underfloor heating system, coordinating communication between thermostats & actuators to achieve efficient & customisable heating in different zones of a building.

Factory Default Settings

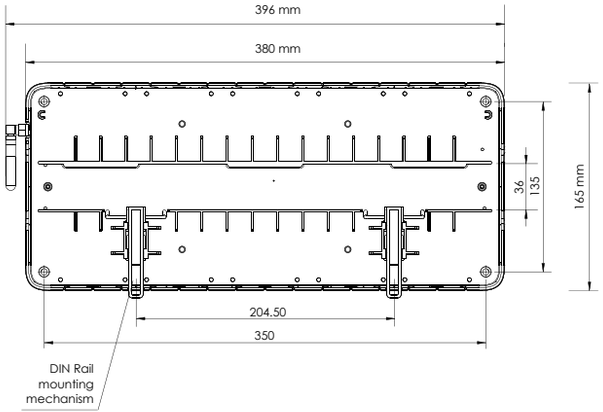
Heat Enable:	Volt Free Contacts	Pump Delay:	00:00
Program:	5/2D	Anti Seize:	Off
Mode Selection:	Auto	Hide Zones:	No
DST:	On	PIN:	Off
Keypad Lock:	Off	Backlight:	On
Switch Output:	On	Frost Protection:	On

Specifications

Power supply:	230Vac 50-60Hz	Admissible ambient humidity:	5-95%RH
Number of Zones:	10	Dimensions:	396 x 165 x 55 mm
Power Supply Indication:	Yes	Heat Enable contact rating:	3(1)A
Heat Enable Indication:	Yes	UFH Pump contact rating:	3(1)A
Zone 1 to Zone 10 Indication:	Yes	IP rating:	IP20
Ambient temperature:	0…45°C	Max. No. of actuators per zone	4
		Max. Permissible Load	5A Resistive

Mounting and Installation

1. Remove the UFH10-RF from its packaging.
2. The UFH10-RF can be directly mounted on a wall using the fixing holes on the base of the unit or it can be directly mounted on DIN rail.



3. Ensure the UFH10-RF is installed at least 300mm from any pipe, metal or electrical device.

Wiring Centre Terminals

Power Supply

L 230Vac Live
⏚ Earth
N Neutral

Heat Enable (Boiler / Heat Pump On)

LS Live supply
⏚ Earth
LR Live return

This is a N/O (Normally Open) Volt free contact which is closed when there is a demand for heat.

Voltage applied to the terminal **LS** is applied to terminal **LR** when there is a demand for heat.

UFH Pump (Underfloor Heating Pump)

L 230Vac Live
⏚ Earth
N Neutral

When an underfloor heating zone calls for heat, 230V is applied to the underfloor heating manifold pump.

Best practice is to wire the underfloor heating manifold pump through a high limit thermostat which is mounted on the manifold.

UFH Valve (Underfloor Heating Valve)

GR Grey Switch Live
OR Orange Permanent Live
L Live
⏚ Earth
N Neutral

When an underfloor heating zone calls for heat, 230V is applied to the Underfloor heating valve.

The valves auxiliary contacts are wired to the **GR** and **OR** terminals.

Note: Please refer to factory default settings on page 3.

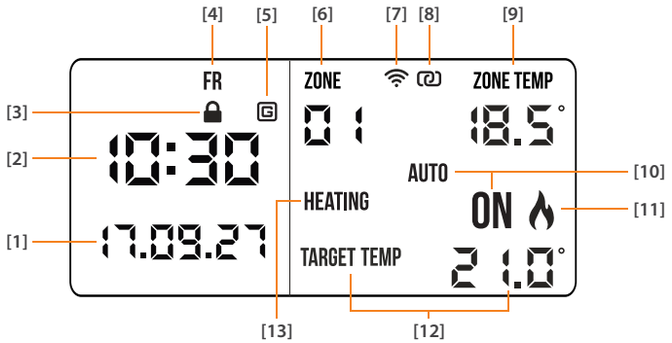
Actuators (Zone 1 to Zone 10)

L 230V Live supply to the actuator.
N Neutral supply to the actuator.

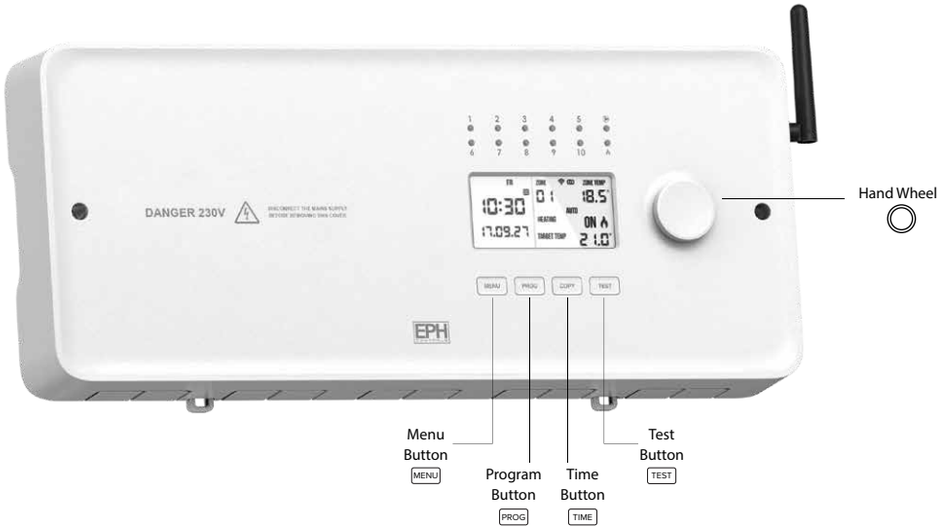
There are two terminals marked **L** & **N** for each zone.

LCD Display

[1] Displays current date.
[2] Displays current time.
[3] Displays when the keypad is locked.
[4] Displays current day of the week.
[5] Displays gateway is connected.
[6] Displays current zone number.
[7] Displays when Wi-Fi is connected.
[8] Displays when RF thermostat connection.
[9] Displays zone temperature.
[10] Displays current mode.
[11] Displays when calling for heat.
[12] Displays target temperature.
[13] Displays zone title.



Button Description



UFH10-RF



RF Wiring Centre

Operating Instructions

Mode Selection AUTO

There are four modes available for selection.

AUTO Each zone operates up to three ON/OFF periods per day (P1, P2 & P3).

ALL DAY Each zone operates one ON/OFF period per day.
This operates from the first ON time to the third OFF time.

ON The zone is permanently ON.

OFF The zone is permanently OFF.

To change the mode of a zone to AUTO, ALL DAY, ON or OFF.

Rotate ◯ to the zone you wish to change the mode.

Press ◯ on the zone and the **current mode** will flash.

Rotate ◯ to select between AUTO, ALL DAY, ON or OFF modes.

Press ◯ to confirm your selection.

Programming Modes

This wiring centre has the following programming modes.

5/2 Day mode Programming Monday to Friday as one block and Saturday and Sunday as a 2nd block.

7 Day mode Programming all 7 days individually.

24 Hour mode Programming all 7 days as one block.

Note: See P03 Setting the time and date instructions on page 10.

Factory Program Settings 5/2d

5/2 Day						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Mon-Fri	06:30	08:30	12:00	12:00	16:30	22:30
Sat-Sun	07:30	10:00	12:00	12:00	17:00	23:00

7 Day						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
All 7 days	06:30	08:30	12:00	12:00	16:30	22:30

24 Hour						
	P1 ON	P1 OFF	P2 ON	P2 OFF	P3 ON	P3 OFF
Everyday	06:30	08:30	12:00	12:00	16:30	22:30

Adjusting the Program Settings in 5/2 Day Mode

To set programs for all zones.

Press [PROG]. **'PROG'** will appear solid on the screen. Programming for Monday to Friday is now selected. **'ALL'** will be flashing. Press ◯ to select ALL.

Continue this process to adjust the ON and OFF times for Tuesday to Sunday. (This allows you to set the same programs across all zones at once)

'P1 On' will appear solid on the screen

Use ◯ to set the P1 ON time for Monday.

Press ◯.

'OFF' will appear solid on the screen.

Use ◯ to set the P1 OFF time.

Press ◯ to confirm.

'P2 On' will appear solid on the screen.

Use ◯ to set the P2 ON time.

Press ◯.

'OFF' will appear solid on the screen.

Use ◯ to set the P2 OFF time.

Press ◯ to confirm.

'P3 On' will appear solid on the screen.

Use ◯ to set the P3 ON time.

Press ◯.

'OFF' will appear solid on the screen.

Use ◯ to set the P3 OFF time.

Press ◯ to confirm. Programming for Saturday and Sunday is now selected.

Press [MENU] to return to normal operation.

Adjusting the Program Settings in 5/2 Day Mode
Continued

To set programs for individual zones.

Press PROG. **'PROG'** will appear solid on the screen.
ALL will be flashing. Rotate ◯ to select individual zone.
The zone number will be flashing.
Press ◯ to select the zone to be programmed.
'P1 On' will appear solid on the screen.
Use ◯ to set the P1 ON time for Monday to Friday.
Press ◯. **'OFF'** will appear solid on the screen.
Use ◯ to set the P1 OFF time.
Press ◯ to confirm.
'P2 On' will appear solid on the screen.
Use ◯ to set the P2 ON time.
Press ◯. **'OFF'** will appear solid on the screen.
Use ◯ to set the P2 OFF time.
Press ◯ to confirm.
'P3 On' will appear solid on the screen.
Use ◯ to set the P3 ON time.
Press ◯. **'OFF'** will appear solid on the screen.
Use ◯ to set the P3 OFF.
Press ◯ to confirm.
Continue this process to adjust the ON & OFF times for Saturday to Sunday.
Press MENU to return to normal operation.

Menu Function

This menu allows the user to adjust additional functions.
Press MENU to access the menu.
When in the menu screen, press MENU to return to normal operation.

P01 Connecting your RF thermostats

This function allows the user to connect an RF thermostat to the UFH10-RF.

To connect an RFR^{V2}, RFRB^{V2} or RFC^{V2} to a UFH10-RF


RFR^{V2}


RFRB^{V2}


RFC^{V2}

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Press ◯, **'RF CONNECT'** will appear solid on the screen.
Rotate ◯ to choose the zone you would like to connect to.
Press ◯ to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Remove the back cover & press the RF button ⊙ on the PCB
When **'r01'** appears, press ◯ to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate ◯ to choose another zone you would like to connect to or press MENU to return to the menu.

To connect a CDT2-RF to a UFH10-RF


CDT2-RF

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Press ◯, **'RF CONNECT'** will appear solid on the screen.
Rotate ◯ to choose the zone you would like to connect to.
Press ◯ to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold ⏻ and OK together for 5 seconds.
When **'P01'** appears on the screen, press OK to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate ◯ to choose another zone you would like to connect to or press MENU to return to the menu.

To connect an RDT-RF to a UFH10-RF



RDT-RF

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Press ◯, **'RF CONNECT'** will appear solid on the screen.
Rotate ◯ to choose the zone you would like to connect to.
Press ◯ to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold ⏻ and OK together for 5 seconds.
When **'P01'** appears on the screen, press OK to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate ◯ to choose another zone you would like to connect to or press MENU to return to the menu.

To connect a HDT-RF to a UFH10-RF



HDT-RF

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Press ◯, **'RF CONNECT'** will appear solid on the screen.
Rotate ◯ to choose the zone you would like to connect to.
Press ◯ to confirm. The zone will stop flashing and appear solid.

2. On the thermostat:

Press and hold ⏻ and ◯ together for 5 seconds.
When **'P01'** appears on the screen, press ◯ to confirm the thermostat is connected.

3. On the UFH10-RF:

Rotate ◯ to choose another zone you would like to connect to or press MENU to return to the menu.

To connect a eTRV to a UFH10-RF



eTRV

An eTRV connects to Zone 10 only. As additional eTRVs are connected, the UFH10-RF will automatically assign them numbers 11 to 19.

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Press ◯ **'RF CONNECT'** will appear solid on the screen.
Rotate ◯ to choose the zone you would like to connect to.
Press ◯ to confirm. The zone will stop flashing and appear solid.

2. On the eTRV:

Press and hold − and ⌂ for 5 seconds.
'nOE' will appear on the screen followed by **'- - '**
The eTRV will display **'r'** followed by the zone number.
Press ⏻ to exit from screen.

3. On the UFH10-RF:

Rotate ◯ to choose another zone you would like to connect to or
Press MENU to return to the menu.

Note: When connecting eTRVs, ensure the switch output for this zone is set to OFF. See page 10 – P04 Switch Output.

P02 Connecting your GW04 Gateway



GW04 Gateway

1. On the UFH10-RF:

Press MENU, **'P01 rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P02'** and **'gAtE'** appears on the screen.
Press ◯ to confirm.
'CONNECT' will flash on the screen.

2. On the GW04 Gateway:

Press and hold RF connect button until the white RF LED begins to flash.

3. On the UFH10-RF:

When successful **'r1'** and **'CONNECTED'** will appear on the screen.
Press ◯.
Press MENU to return to the menu.

To disconnect your GW04 gateway.

On your GW04 gateway, press and hold the reset button until all LED's begin to flash. When reset successfully the white RF LED **will not** reappear.

P03 Setting the Time, Date & Programing Mode

Press MENU.
'P01' & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P03'** and **'tInE'** appear on the screen.
Press ◯ to confirm. The year will begin to flash.
Use ◯ to set the correct year.
Press ◯ to confirm.
The month will begin to flash.
Use ◯ to set the correct month.
Press ◯ to confirm. The day will begin to flash.
Use ◯ to set the correct day.
Press ◯ to confirm.
The hour will begin to flash.
Use ◯ to set the correct hour.
Press ◯ to confirm. The minute will begin to flash.
Use ◯ to set the correct minute.
Press ◯ to confirm.
The programming mode **'5/2d'** will flash on the screen.
Use ◯ to choose between 5/2d, 24h and 7d.
Press ◯ to confirm.
'dSt' (daylight saving time) will appear on the screen.
'On' will flash on the screen.
Use ◯ to select ON or OFF mode.
Press ◯ to confirm.
Press MENU to return to the menu.

P04 Switch Outputs ON

This function allows the user to activate the output of this zone without calling the pump or the boiler. If set to ON, the boiler and pump will activate when the actuator is enabled.
If set to OFF only the actuator will be enabled, the boiler and pump are not.
Press MENU. **'P01'** & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P04'** & **'OUtpUt'** appears on the screen.
Press ◯ to confirm. Using ◯ scroll to the zone you want to change the output.
Press ◯ on the zone to confirm.
Rotate ◯ to change from **ON** to **OFF**.
Press ◯ to confirm. You can now scroll to another zone if required.
Press MENU to return to the menu.

P05 Pump Delay 00:00

This function allows the user to delay the pump activating for a pre-determined time to allow time for the valves to open. The pump delay can be set from 1 – 5 minutes.
'P01' & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P05'** & **'dELAy'** appear on the screen.
Press ◯ to confirm.
'00:00' will flash on the screen.
Rotate ◯ to select between 00:00 minutes and 00:05 minutes.
Press ◯ to confirm.
Press MENU to return to the menu.

P06 Anti-Seize OFF

This function allows the user to activate each output on the 1st day of each month at 12:00. It will open and close the output twice without calling the boiler.

Press MENU.

'P01 & rF COn' will appear on the screen.

Rotate ◯ clockwise until **'P06'** & **'SEIZE'** appears on the screen.

Press ◯ to confirm.

Rotate ◯ to change from **OFF** to **ON**.

Press ◯ to confirm.

Press MENU to return to the menu.

P07 Hiding Zones NO

This function allows the user to hide the unused zones from the main display.

Press MENU.

'P01 & rF COn' will appear on the screen.

Rotate ◯ clockwise until **'P07'** & **'hidE'** appears on the screen.

Press ◯ to confirm.

Using ◯ scroll to the zone you want to hide.

Press ◯ on the zone to confirm.

Rotate ◯ to change from **NO** to **YES**.

Press ◯ to confirm.

You can now scroll to another zone and hide it if required.

Press MENU to return to the menu.

P08 PIN OFF

This function allows the user to put a PIN lock on the UFH10-RF.

To Activate the PIN:

Press MENU. **'P01'** & **rF COn'** will appear on the screen.

Rotate ◯ clockwise until **'P08'** &**'PIN'** appears on the screen.

Press ◯ to confirm. **'Off'** will appear on the screen.

Rotate ◯ to change from **OFF** to **ON**.

Press ◯ to confirm. **'0000'** will flash.

Rotate ◯ to set value from 0 to 9 for the first digit.

Press ◯ to move to the next PIN digit.

When the last digit of the PIN is set, press ◯ to continue.

You will now need to verify the PIN. You will have 1 chance to confirm the PIN.

When the PIN is verified the PIN lock is activated. If the verification PIN is entered incorrectly, you will be returned to the main screen.

When the PIN lock is active the 🔒 will flash every second on the screen.

Note: When the UFH10-RF is PIN locked, pressing MENU will take the user to the PIN unlock screen. If the PIN is unlocked it will automatically reactivate if there is no button is pressed for 2 minutes.

To Unlock the PIN

Press MENU, **'UNLOCK'** will appear on the screen. **'0000'** will flash on the screen.

Rotate ◯ to set the value from 0 to 9 for the first digit.

Press ◯ to move to the next PIN digit.

When the last digit of the PIN is set.

Press ◯. The PIN is now unlocked.

If a PIN has been unlocked on the wiring centre, it will automatically reactivate if there is no button pressed for 2 minutes.

To Deactivate the PIN:

Press MENU. **'P01'** & **rF COn'** will appear on the screen.

Rotate ◯ clockwise until **'P08'** & **'PIN'** appears on the screen.

Press ◯ to confirm. **'On'** will appear on the screen.

Rotate ◯ to change from **ON** to **OFF**.

Press ◯ to confirm. You will be prompted to enter the PIN code before it can be deactivated. **'0000'** will flash.

Use ◯ to set value from 0 to 9 for the first digit.

Press ◯ to move to the next PIN digit. When the last digit of the PIN is set,

Press ◯. The Pin is now disabled.

Press MENU to return to the menu.

P09 Holiday Function

This function allows the user to switch off their underfloor heating by defining a start date and an end date. Throughout this period, all thermostats will default to 5°C.

'P01 & rF COn' will appear on the screen.
Rotate ◯ clockwise until **'P09'** & **'HOL'** appears on the screen.
Press ◯ to confirm. **'HOLIDAY FROM',** the date and time will appear on the screen. The '**year'** will begin to flash. Use ◯ to adjust the year.
Press ◯ to confirm. Use ◯ to adjust the month.
Press ◯ to confirm. Use ◯ to set the adjust the day.
Press ◯ to confirm. Use ◯ to adjust the hour.
Press ◯ to confirm.
'HOLIDAY TO', the date and time will appear on the screen.
The '**year'** will begin to flash. Use ◯ to adjust the year.
Press ◯ to confirm. Use ◯ to adjust the month.
Press ◯ to confirm. Use ◯ to set the adjust the day.
Press ◯ to confirm. Use ◯ to adjust the correct hour.
Press ◯ to confirm.
The UFH10-RF will switch all zones to OFF during this selected period
To cancel the HOLIDAY, press ◯.
The UFH10-RF will return to the normal operation when a holiday has finished or been canceled.
Press MENU to return to the menu.

P10 Backlight function ON

This function allows the user to choose between 3 different backlight modes, ON, OFF & AUTO.

AUTO	Backlight stays on for 10 seconds when any button is pressed.
ON	Backlight is permanently On.
OFF	Backlight is permanently Off.

Press MENU. **'P01'** & **rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P10'** & **'bL'** appears on the screen.
Press ◯ to confirm.
Rotate ◯ to change between ON, OFF & Auto.
Press ◯ to confirm.
Press MENU to return to the menu.

P11 Frost Protection OFF

Frost protection is built into the UFH10-RF, it is prefixed at 5°C and is not adjustable. Frost protection will be set OFF as default.
Press MENU.
'P01 & rF COn' will appear on the screen.
Rotate ◯ clockwise until **'P11'** & **'FrOSt'** appears on the screen.
Press ◯ to confirm.
Rotate ◯ to change from **OFF** to **ON**.
Press ◯ to confirm.
The ❄ will appear on the screen when activated and will flash if the frost protection is activated.
Press MENU to return to the menu.

P12 rECU

This function allows the user to connect an RF1B receiver to the UFH10-RF, providing RF switching to the RF1B to be mounted in a different location.

1. On the UFH10-RF:
Press MENU, **'P01'** & **rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P12'** & **rECU'** will appear on the screen.
Press ◯ to confirm.

2. On the RF1B:
Hold Connect for 3 seconds.
The RF LED will begin to flash.

3. On the UFH10-RF:
When **'r01'** appears on the screen
Press ◯ to confirm.

P13 Disconnecting your RF Thermostat

To disconnect all zones:

Press MENU.
'P01' & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P13'** & **'dISCOn'** appears on the screen.
Press ◯ to confirm.
'**ALL**' will be flashing on the screen.
Press ◯ to select ALL.
'n0' will flash on the screen.
Rotate ◯ to select **'yES'**.
Press ◯ to confirm disconnection.
This will disconnect all connected zones at once.

To disconnect an individual zones:

Press MENU.
'P01' & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P13'** & **'dISCOn'** appears on the screen.
Press ◯ to confirm.
'ALL' will be flashing on the screen.
Rotate ◯ to select individual zone.
Press ◯ to select zone to be disconnected.
'**n0**' will flash on the screen.
Rotate ◯ to select **'yES'**.
Press ◯ to confirm disconnection.
This zone is now disconnected.
Press MENU to return to the menu.

Activating Setback on your RFRB^{V2} Thermostat

On the RF thermostat press and hold ◯ and ⏻ until the screen displays **'nOr'** & **'P01'**.
Rotate ◯ until **'sb'** & **'P06'** appear on the screen.
Press ◯ to confirm.
Rotate ◯ to change from **OFF** to **ON**.
Using ◯, choose your setback temperature between 0 -10°C.

When the UFH10-RF is timed off it will subtract the setback temperature from the target temperature. If the temperature drops below the setback temperature the UFH10-RF will activate the heating to maintain the setback temperature.

Test Function

This function allows the user to activate a zone directly from the UFH10-RF without calling the pump or the boiler.

To Test all zones:

Press TEST.
'ALL' will be flashing on the screen.
Press ◯ to confirm.
All the zones will activate.

To Test individual zones:

Press TEST.
'ALL' will will be flashing on the screen.
Rotate ◯ to select an individual zone.
Press ◯ to activate the zone.
Rotate ◯ to select another zone.
Press ◯ to activate the next zone.
Press MENU to return to normal operation.

Locking the Keypad

To lock the UFH10-RF, press ◯ for 10 seconds.
🔒 will appear on the screen. The buttons are now disabled.
To unlock the UFH10-RF, press ◯ for 10 seconds.
🔒 will disappear from the screen. The buttons are now enabled.
Press MENU to return to normal operation.

P15 Reset

To reset the UFH10-RF to factory programs.
Press MENU.
'P01' & **'rF COn'** will appear on the screen.
Rotate ◯ clockwise until **'P15'** & **'rESEt'** appears on the screen.
Press ◯ to confirm.
Rotate ◯ to change from **'nO'** to **'yES'.**
Press ◯ to confirm.
The UFH10-RF will restart and revert to its factory program settings.
The time and date will not be reset.
Press MENU to return to the menu.

Copy Function

Note: 7 day mode must be selected. See P03 setting the time and date instructions on Page 10.

To Copy a zone schedule to other heating zones.

Press PROG.
Press COPY.
'COPy' & **'FROM'** will appear on the screen.
'ZONE' will be displayed solid on the screen.
The zone number will be flashing.
Rotate ◯ to select which zone schedule you want to copy from.
Press ◯ to confirm.
'COPy' & **'TO'** will appear on the screen.
Rotate ◯ to the zones you want to copy the schedule to.
The zone number will flash.
Press ◯ to copy schedule to that zone.
The zone number will display solid.
Rotate ◯ to skip a zone.
Zones which are displayed solid have been copied.
Zones which are flashing have not been copied.
Press MENU to return to normal operation.

To Copy a day schedule to other days within a zone.

Press PROG.
Press COPY.
'COPy' & **'FROM'** will appear on the screen.
'ZONE' will be displayed solid on the screen.
The zone number will be flashing.
Press ◯ to confirm.
Press COPY.
'COPy' will appear on the screen.
The day schedule will appear on the screen.
The day to be copied will appear solid on the screen.
Rotate ◯ clockwise to copy the program to the next day, this day will stay solid on the screen.
Rotate ◯ anti-clockwise to skip to the next day, the skipped days will disappear from the screen.
Press ◯ to save changes and return to main operation.

UFH10-RF - 10 x Underfloor Heating Zones

c/w RF Non-Programmable Thermostats.

Options:



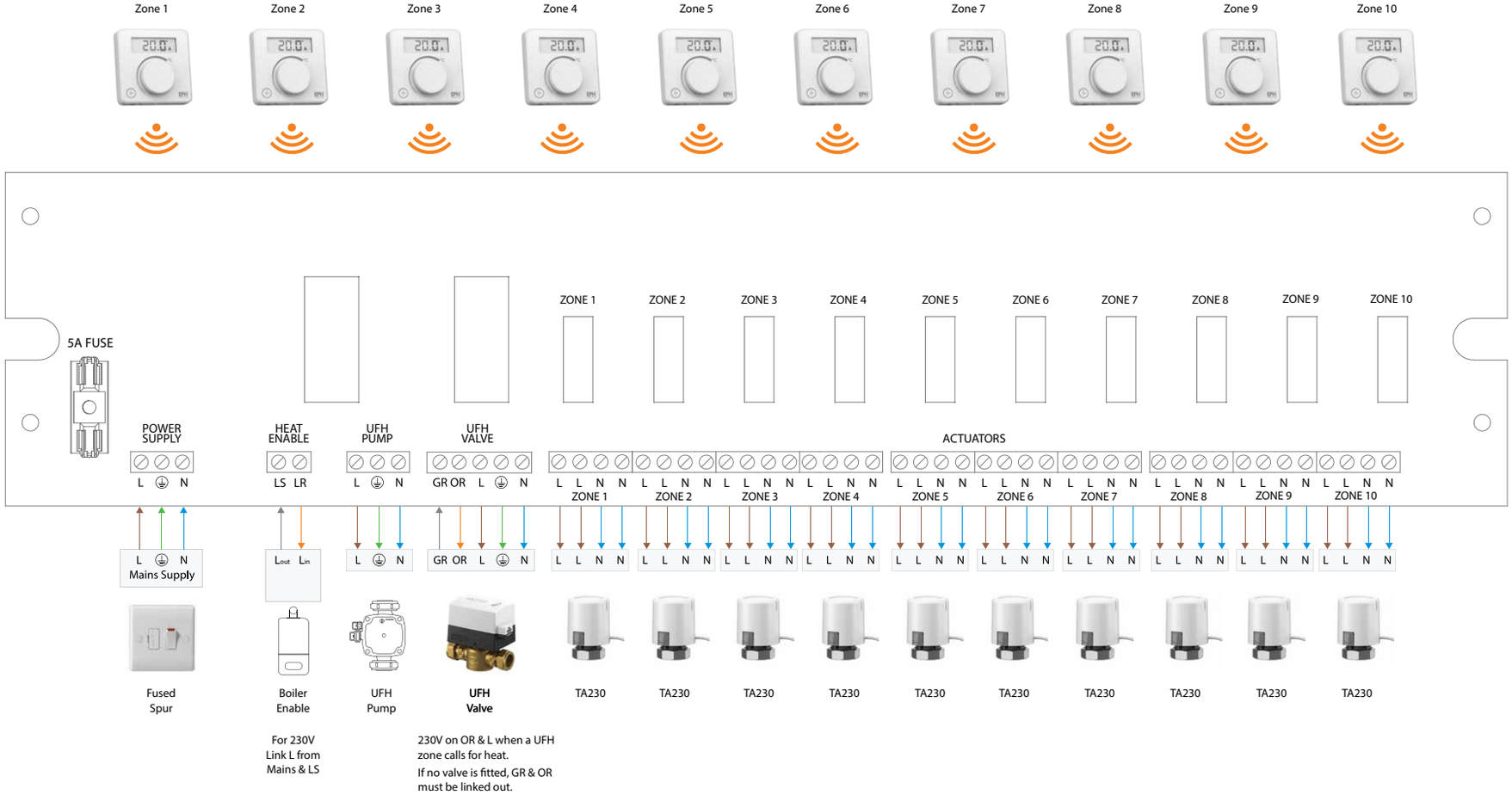
RFRBV2



RFRV2

Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Switch Output	On



UFH10-RF - 9 x Underfloor Heating Zones - 1 x Hot Water Zone

c/w RF Non-Programmable Thermostats.

Options:



RFRBV2



RFRV2



RFCV2

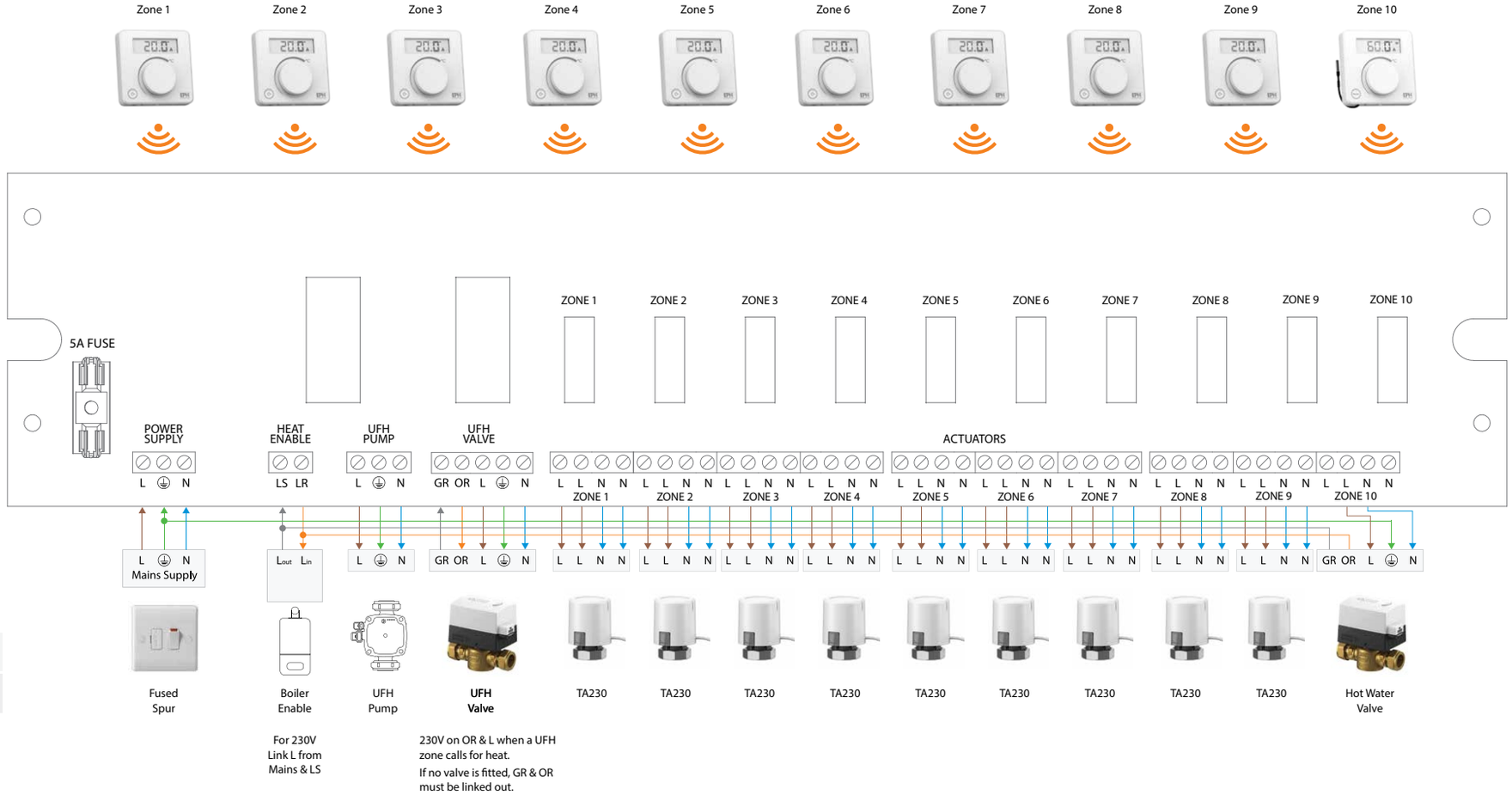
Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes

In this example:

Switch Output for Zone 1 to 9 is set to On
Switch Output for Zone 10 is set to Off

Note: See P04 Switch Outputs Instructions on Page 10.



UFH10-RF - 10 x Underfloor Heating Zones

c/w 230V RF Non-Programmable Thermostats.

Options:



CDT2-RF



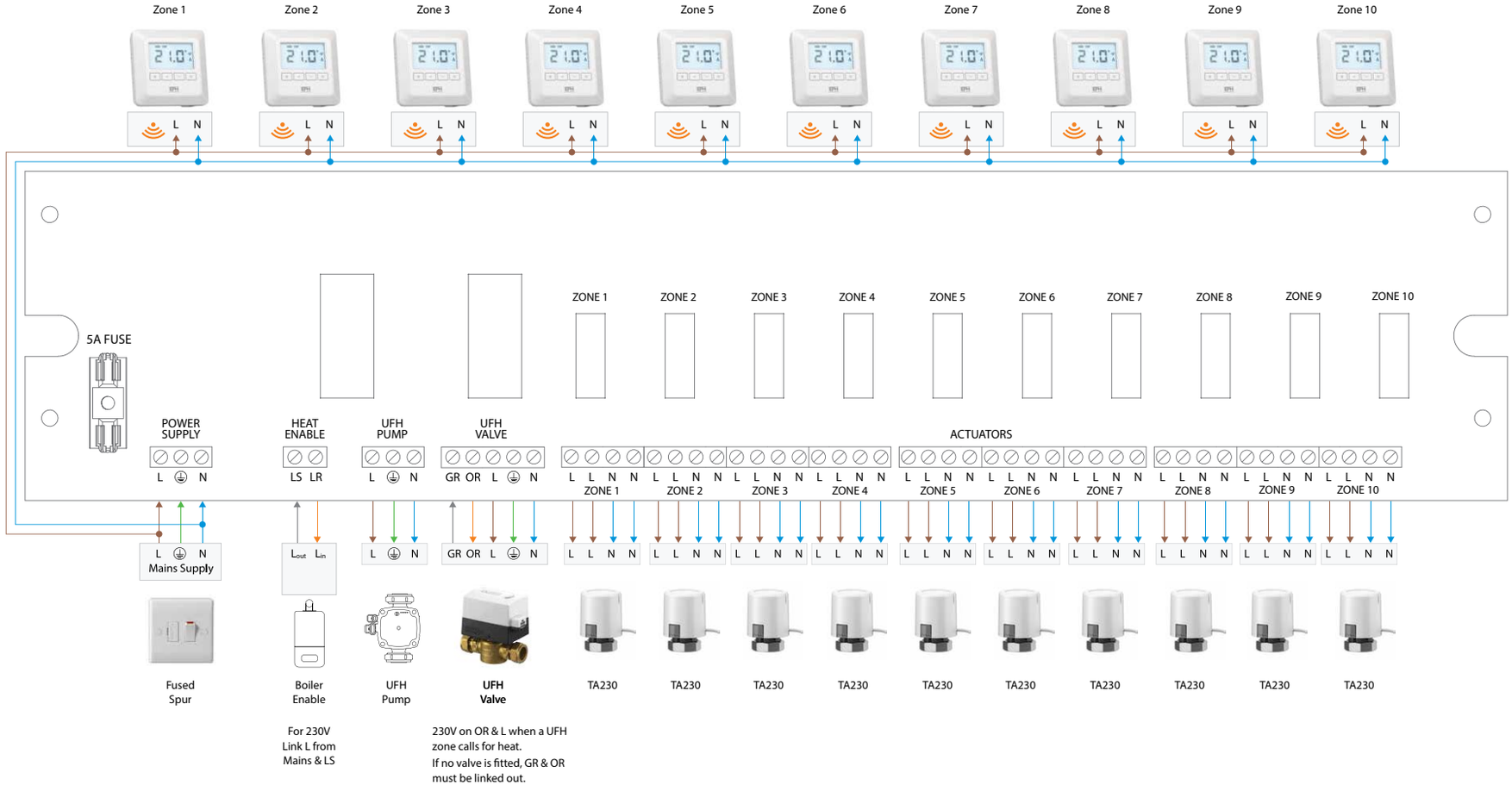
RDT-RF



HDT-RF

Note: Please refer to individual thermostat wiring diagrams.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes
Switch Output	On



UFH10-RF - 8 x Underfloor Heating Zones
- 1 x Radiator Zone
- 1 x Hot Water Zone

c/w RF Non- Programmable Thermostats & Hardwired Cylinder Thermostat.

Options:



RFRBV2



RFRV2



WRP

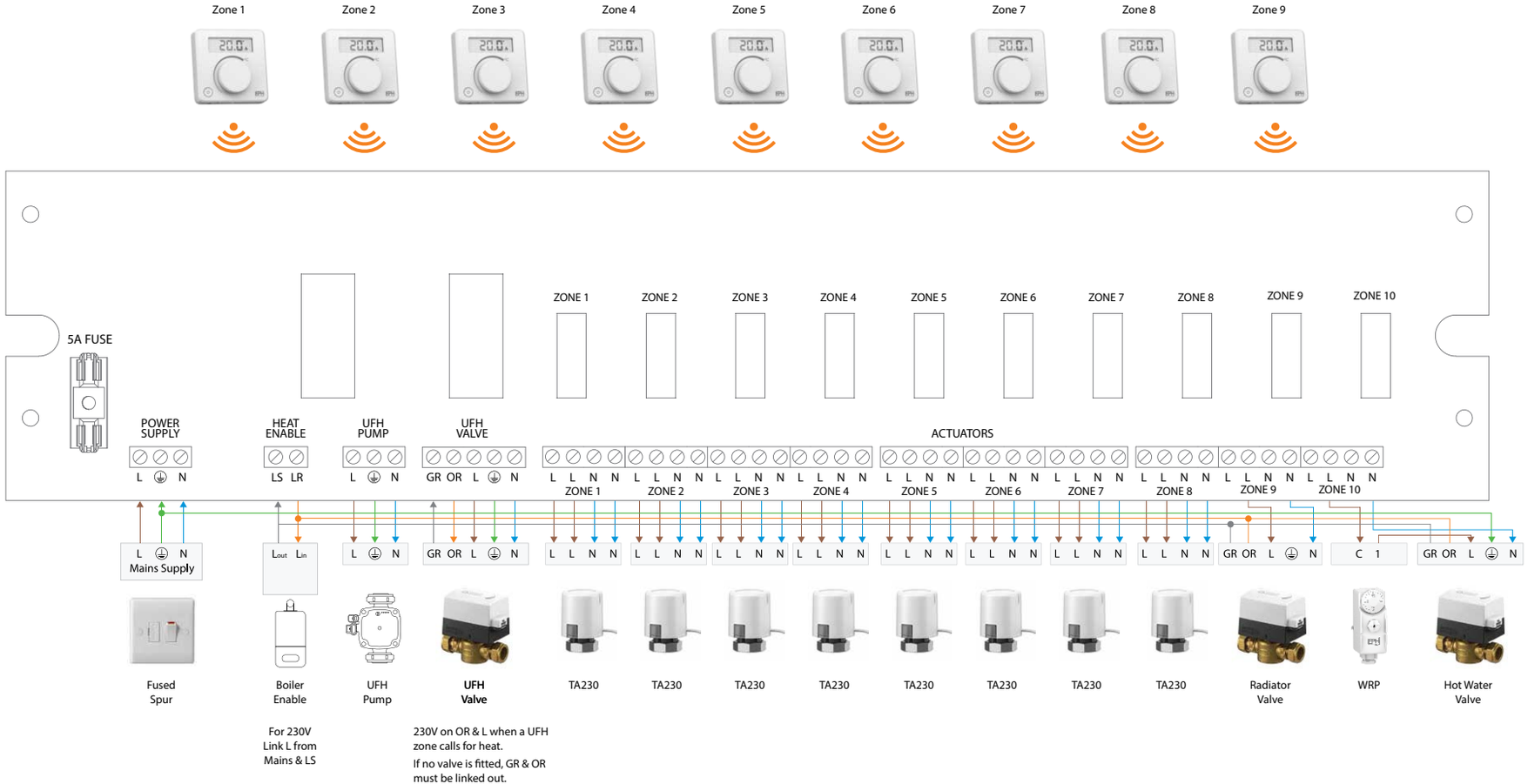
Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes

In this example:

Switch Output for Zone 1 to 8 is set to On
Switch Output for Zone 9 & 10 is set to Off
Zone 10 is Timed Output only

Note: See P04 Switch Outputs Instructions on Page 10.



UFH10-RF - 8 x Underfloor Heating Zones
- 1 x Hot Water Zone
- 10 x Radiator Zones

c/w RF Non- Programmable Thermostats & Hardwired Cylinder Thermostat.

Options:



RFRBV2



RFCV2



eTRV

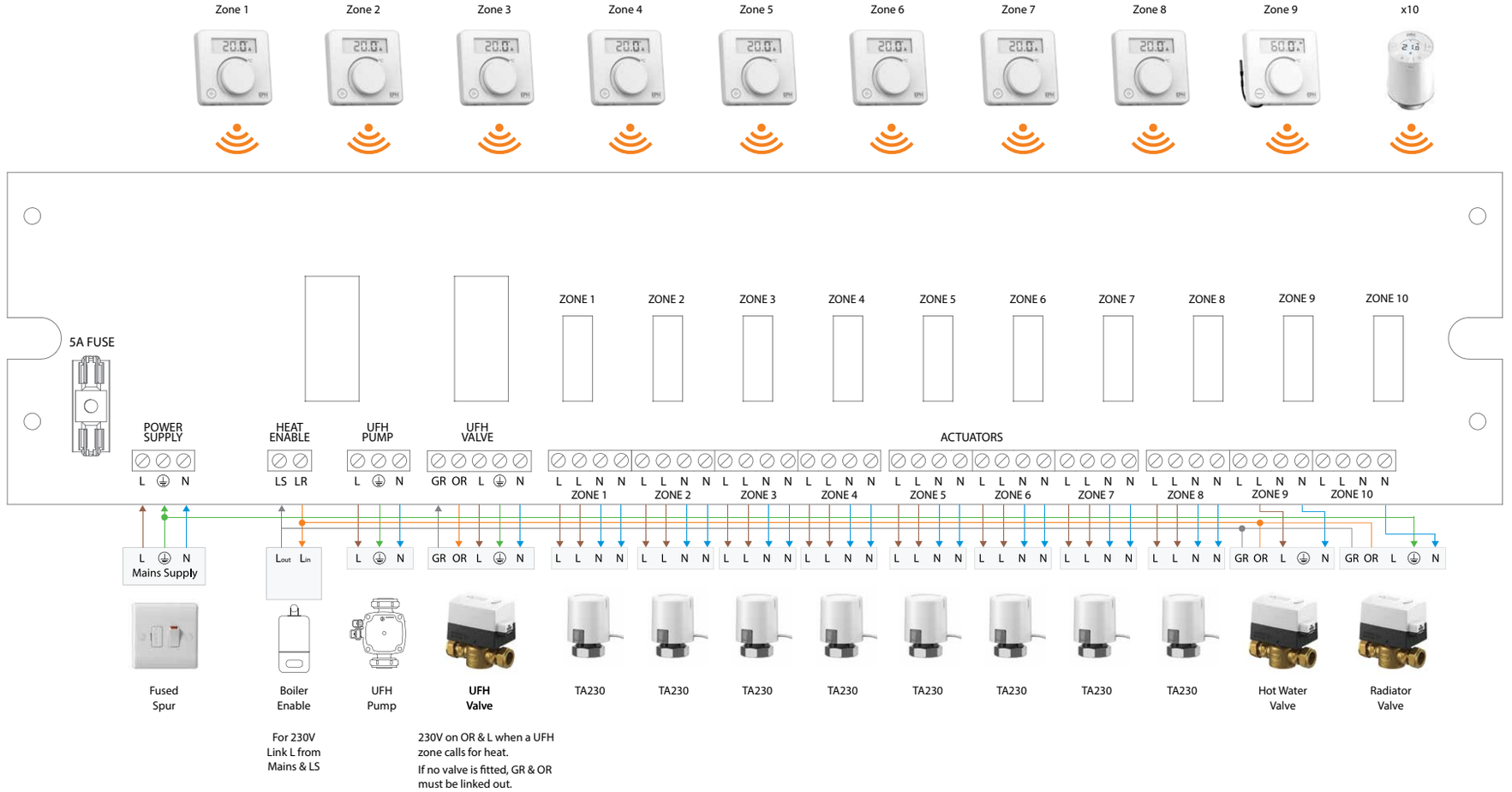
Note: Please refer to individual thermostat instructions.

CONTROLS	INSTALLED
UFH Pump	Yes
UFH Valve	Yes
UFH Actuators	Yes

In this example:

Switch Output for Zone 1 to 8 is set to On
Switch Output for Zone 9 & 10 is set to Off
Zone 10 is Timed Output only

Note: See P04 Switch Outputs Instructions on Page 10.



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UFH10-RF is compatible with the following EPH thermostats

RF Thermostats



RFR^{V2}



RFC^{V2}



RFRB^{V2}

230V Thermostats



CDT2-RF



HDT-RF



RDT-RF

Also available from EPH Controls



UFH5



UFH10



UFH10-24

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