I Heating 🕞 Hot water 🔗 Renewables

Top 10 schematic diagrams with set-up guidance





Important Note:

This guide shall support the professional installer in planning, installing and commissioning the appliance. It shall on no account replace or modify the installation, operating and maintenance instructions delivered with the appliance which always have to be observed.

The non-observance of the instructions delivered with the appliance can lead to malfunctions of the appliance and can result in death or serious injuries. Some characteristics of the appliance shown in this guide may vary from those of the most current series version. Vaillant Group UK Limited shall not be held liable for any damages or injuries arising directly or indirectly from the use of this guide.

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Please check the product installation manuals for further information.

We are here to help you! Don't hesitate to contact us for further support

Introduction

This publication covers the 10 most popular heat pump installations in the UK. It is based on the most commonly used systems, and covers three main areas:

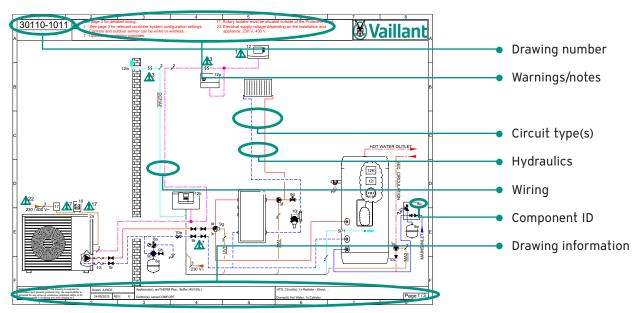
1. The hydraulic schematic with product, components and additional non-Vaillant items (if applicable).

2. The wiring of all Vaillant products and components (no full details of non-Vaillant items).

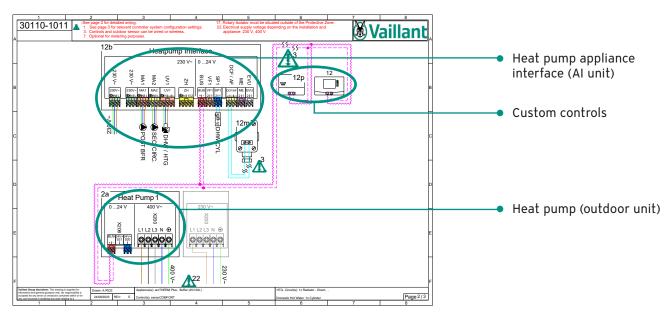
3. The main controller set-up for the type of system being installed, either VRC 700 or sensoCOMFORT.

Each scheme will have a scheme number and short description of the type of system/circuits. There will also be a key to identify individual Vaillant and non-Vaillant products and components (on page 3).

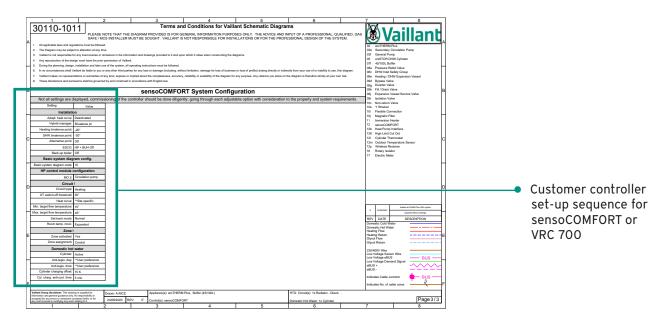
1.1 Page 1 of a schematic drawing



1.1.1 Page 2 of a schematic drawing



1.1.2 Page 3 of a schematic drawing



Please note -Any schematic produced by our Sales and System Design team will contain all the above information according to the information given to them at the time. It must be stressed that some of the design criteria may be slightly different for any given installation. With that in mind, during the set-up process of the controls configuration, any area marked "Site Dependent" means that you should check what information needs to be used for the site or customer preference you are setting up.



The order of each item on the VRC 700 or sensoCOMFORT listed in the configuration screens do not always appear in the same order. Always make sure that you are in the correct part of each subject when looking at individual settings.

1.1.3 Simulator links for installers and end users

There is a simulator for both the VRC 700 and the sensoCOMFORT controls:

Control	URL
VRC 700	https://simulatorxaillant.com/VRC 700_6/gb/
sensoCOMFORT	https://simulator.vaillant.com/VRC_720_2/gb/

Each simulator has a tab at the top for you to choose between a wired or wireless control. It also has selection criteria for you choose what system you want to use:

- Boiler or heat pump
- Buffer tank
- Cylinder fitted
- Number of heating zones

You can select to start the installation assistant (as if you power up for the first time). Or you can choose to start using the control (if you want to show an end user how to turn the system on/off or set-up a holiday period etc.).

Boiler	Heat pump	Number of hea	ting circuits
 ○ No (ecoTEC exclusive 	 No aroTHERM / aroTHERM split flexoTHERM / flexoCOMPACT geoTHERM 3 kW 	1 v 1 v	
Buffer cylinder	Solar system		System det
NoYesalistor	No1 solar cylinder2 solar cylinder		Installatior assistant
		•	
English Control		Start installation assistant Star	t simulation
ensoCOMFORT	É •	et pump No aroTHERM (split) 1 ✓ geoTHERM 3 kW	Wired or wireless
ensoCOMFORT Control multiMATIC 700 multiMATIC 700f Boiler No Yes 1		et pump No aroTHERM (split) 1 • geoTHERM 3 kW flexoTHERM / flexoCOMPACT ffer cylinder No	Wired or wireless
EnsoCOMFORT Control multiMATIC 700 Boiler No Yes 1 Control Yes 1 Number of heating circuits		at pump No aroTHERM (split) 1 ~ geoTHERM 3 kW flexoTHERM / flexoCOMPACT ffer cylinder No Yes	Wired or wireless
ensoCOMFORT Control multiMATIC 700 multiMATIC 700f Boiler No Yes 1 CONTEC exclusive Number of heating circuits In heating circuit Solar system No In solar cylinder		at pump No aroTHERM (split) 1 ~ geoTHERM 3 kW flexoTHERM / flexoCOMPACT ffer cylinder No Yes	Wired or wireless System det

Note that some selections are for technologies not sold in the UK

Simulation

1.2 How to use this workbook and guide

This workbook and guide has been set out in order, so that the "Setting to Work" process should be trouble-free from the first startup.

1.2.1 The first switch on order

Follow, in order, the following protocol for all heat pump installations. Individual units may have been tested electrically first, but the process for setting up is an important step for trouble free start-up and running.

Make sure that all wiring is complete, and that the filling and purging of air has already been completed.

- 1. Power up the outdoor unit first
- 2. Power up indoor unit (if one is installed)



Top 10 schematic diagrams and system set-up guidance 03/2024

4. Wiring centre and controls (for other systems)

3. Power up the controls (including AI if installed)

1.2.2 Order of set-up (Start-up assistant)

Very simple systems may only have the outdoor unit and an AI unit, with or without a HEX unit. More complex systems could have the out-door unit, a hydraulic station or uniTOWER, either with one control, or with a wiring centre and a number of controls covering many different heating zones.

- 1. Run the AI unit "Start-up assistant" first (if installed) or run the "Installation assistant on the Hydraulic station or uniTOWER (whichever is installed).
- 2. Run the "Start-up assistant" on all VR 91 or VR 92 remote controls (if installed)
- 3. Run the "Start-up assistant" on the sensoCOMFORT or VRC 700 (based on what has installed) last.





aroTHERM plus with uniTOWER

aroTHERM plus hybrid



aroTHERM plus with hydraulic station

2 First power-up and settings to complete

2.1 Step 1 - completing the start-up assistants (on the below appliances first) in order



Always complete the start-up assistants on these appliances first (only one used on each system).

** The Start-up assistant differs slightly between appliances

This document is for guidance only. Please consult the installation and servicing manual for further details on the relevant product.

Questions on start-up assistant	Recommended setting	Guidance
Language	English	
System control available	Yes	Referring to whether a sensoCOMFORT has been installed.
Immersion heater power supply	230 - 240v	Set power supply of immersion heater in Hydraulic Station/ uniTOWER/flexoTHERM (not applicable if using VWZ AI/Heat Pump Interface).
Immersion heater output range	1-9kW or external **Installation Dependant**	Set output of immersion heater in Hydraulic Station/ uniTOWER/flexoTHERM (not applicable if using VWZ AI/Heat Pump Interface).
Cooling technology	No	Unless system is designed for cooling and coding resistor has been fitted.
Compressor current limit **aroTHERM plus Only**	5-7kW unit = 13-16A 10 -12kW unit = 20-25A	You can reduce the current draw of the outdoor unit depending on the electricity supplier. A reduction in current will reduce compressor output.
MO relay **aroTHERM plus Only**	Various (consult schematic)- fault signal, ext. immersion heater, DHW 3-way valve	Relates to X14 on Hydraulic Station/UniTOWER
Intermediate heat exchanger	Yes/No	uniTOWER ONLY. there is an accessory to fit a plate heat exchanger within the uniTOWER. Set to yes if fitted.
Purge building circuit	Yes	We recommend running a purge programme for at least 15 mins to ensure the system is clear of any air. There are air vents which needs opening inside the Hydraulic Station/ uniTOWER. flexoTHERM will offer two purge modes that should both be ran (Environment & Building). Failure to do so can result in an overheat thermostat fault. Please note that the purge program will run indefinitely, until cancelled.
Contact details		Installer contact details to prompt the customer on who to call in the event of an issue with the heat pump.
Finish installation assistant		



Note : Ensure the purge programs are operated for at least 15 mins per mode (heating and DHW). This is highly important for the MEH 97 hydraulic station and uniTOWER as these units contain a overheat thermostat, which if triggered will need to be replaced – This would not be covered by warranty if failure occurs during installation

After running the start-up assistants on all other system components, it will be necessary to run the start-up assistants on the controls.

To do this you will need to have the Vaillant schematic supplied as part of the system design or check the list in the next section to find the system that matches the one that you are commissioning.

Each of the schematics in this document contains the set-up process for both the VRC 700 and sensoCOMFORT (VRC 720/2).

Always use the start-up assistant on the remote controls (VR91 or VR92) first and then run the start-up assistant on the main control (VRC 700 or sensoCOMFORT VRC 720/2) last.

2.2 Step 2 - the start-up procedure for the sensoCOMFORT

Always run the start-up assistant on all remote controls (VR92/VR92f) before the main control (sensoCOMFORT/VRC 700).



Please note, not every screen will appear during the start-up assistant as it is dependent on whether a VR70 or VR71 has been connected to the system.

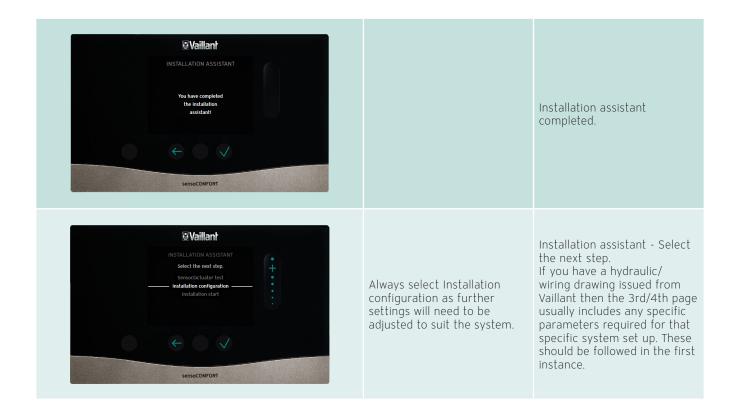
Control	Setting	Description
INSTALLATION ASSISTANT Deutsch Deutsch Français Halano Darak Nederlands	Language	Language selection
INSTALLATION ASSISTANT Set the current date. 10 01. 2024 Image: Comparison of the current date. Image: Compariso	Date	Set the current date
Vaillant INSTALLATION ASSISTANT set the current time. 12: 15 ••••••••••••••••••••••••••••••••••	Time	Set the current time

Vaillant INSTALLATION ASSISTANT 10 Control reception strength	Value will be from 0 to 10. Zero being no connection. In this event the controller would need to move closer to the receiver in the first instance and eliminate any external influences. Check eBUS connection and polarity to receiver and power to outdoor unit.	Control reception strength (wireless controls only)
Vaillant INSTALLATION ASSISTANT 10 Of sensor reception strength EnsoCOMFORT	Value will be from 0 to 10. Zero being no connection. In this event the outdoor sensor would need to move closer to the receiver in the first instance and eliminate an external influences. Check eBUS connection and polarity to receiver and power to outdoor unit.	Outdoor temperature sensor strength (wireless controls only)
Vaillant INSTALLATION ASSISTANT Remote control Connected Not connected	Connected Not connected	This is If additional VR92 Remote control(s) are to be installed along with the sensoCOMFORT to control additional heating zones or not. Connected = You must run the Installation wizard on all VR92 Remote control(s) first. Not Connected = Only the sensoCOMFORT is to be used to control all heating zones.
INSTALLATION ASSISTANT INSTALLATION ASSISTANT Image: Second control complete? Image: Second control control complete? Image: Second control co	Yes	To confirm the installation assistant for the VR92 remote control(s) is complete.









2.3 Installation configuration

After the start-up assistant has completed, it will be necessary to enter all the basic information given on the schematic (page 3). Check each item listed on the sheet according to the control type being used, until all items have been confirmed as correct or adjusted.



Some settings will be require input from site specific information. Other parameters may need no intervention at all.

2.4 Explanation of sensoCOMFORT setting screens

The following tables are the individual sections of the Installation configuration menu in the sensoCOMFORT controller. Only the modifiable parameters are listed as some items displayed are read only. Please consult the sensoCOMFORT installation and servicing manual for further descriptions of read only items, if required.

If a specific diagram has been produced for the installation, then any settings relevant for that particular installation should be used in place of the suggested settings below.

This menu can also be accessed by the main menu - settings - installer level- access code 00 - installation configuration.

2.4.1 Installation menu

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Adaptive heat curve	- Deactivated - Activated	Deactivated	Deactivated This is due to inconsistant weather patterns with the UK climate. If no information is present to allow an accurate entry of the heat curve, this can be activated but is not reccommeded due to the possiblilty of higher energy usage.	Adaptive heat curve will adjust the heat curve automatically based on how quickly the target room temperature is reached. This newly determined heat curve is saved for the next heating cycle. Dependant upon the adjustment and weather conditions on the previous heating cycle having this parameter activated can cause an over shoot on actual room temperature. Explanation is required to the end user. Please note that this function is only available if the control or the remote control has been installed in the living room and "Expanded" room temperature modulation has been activated for the corresponding heating circuit.
Automatic cooling	- Deactivated - Activated	Deactivated	Deactivated unless cooling possible for installation and coding resistor has been fitted on the Arotherm plus.	If Parameter = "Yes" has been selected, cooling mode starts with the stored control algorithm.
Cooling at outdoor temperature	- 10 - 30°C	15°C	As per cooling requirements	Minimum temperature from which the cooling mode is enabled.
Source regeneration	- No - Yes	No	Not for non cooling applications. If cooling is actived, refer to system schematic.	If Parameter = "Yes" is selected, automatic cooling remains activated even during programmed absences. To do so, the "Automatic cooling" parameter must also be set to "Activated".
Hybrid manager	- triVAI - Bivalence pt	Bivalence point	Biv point to be used if accurrate information is present. Tri-Vai is to be used if minimal information present. This promotes a preferance of comfort for the customer.	Bivalence Point = Outdoor temperature where heat pump and backup work together. triVAI = Allows utility information to be entered (SETTINGS > TARIFFS). System will then calculate which appliance is most efficient to run.

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Heating bivalence point	30°C - 20°C	0°C	Property dependant, set temperature when back up heater/appliance will be required for parallel operation. If no back up installed then set to -30°C.	Ideally, this should be set at the outdoor temperature at which the system design was completed. Therefore, when the outdoor temperature is lower than designed, the heat pump can no longer complete the full demand of the property and considers support from the backup heater.
DHW bivalence point	20°C - 20°C	-7°C	Property dependant, set temperature when back up heater/appliance will be required for parallel operation. If no back up installed then set to -20°C.	Ideally, this should be set at the outdoor temperature at which the system design was completed. Therefore, when the outdoor temperature is lower than designed, the heat pump can no longer complete the full demand of the property and considers support from the backup heater
Alternative point	- Off 20°C - 40°C	Off	Off, unless backup heater is present. This is then system specific.	The alternative point determines at what outdoor temperature the heat pump switches off and the heating demand is covered by the back-up heater ONLY.
LHM temperature	- 20°C - 80°C	25°C	25°C	If control signal is lost then heating will operate at this flow temperature. This is not applicaple to heat pumps due to the control software design. If a heat pump loses the signal from the controller, a communication fault shall appear. If the heat pump fails, the back-up boiler fulfils the heat demand with the LHM set flow temperature.
Back-up boiler type	- Condensing - Non-condensing - Electrical	Condensing	Dependant on what back up appliance is available for support.	Definition of the back-up boiler (efficiency) for calculation of the triVAI point.
ESCO	- HP off - BUH off - HP + BUH off - Heating off - Cooling off - Heat + cool off	HP + BUH Off	-HP + BUH Off is used if there is nothing connected to EVU/S21 -Heating off is used if the EVU/S21 has 3rd party controls connected. This will operate as a 'closed for demand'. A 3rd party relay may be required. -Heat & Cool off is used if a 3rd party cooling signal is connected to EVU/S21.	EVU = Heat Pump Interface S21 = Hydraulic Station, Unitower, Flexotherm.

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Back-up boiler	- Off - Heating - DHW - DHW + heat	DHW + heat	Dependant on what demands the back up appliance needs to support.	If the Hydraulic station (Arotherm Split) Flexotherm is used, this should be set to at least DHW to allow for legionella protection assistance.
Buffer cylinder offset	- 0 - 15 K	10 K	10 К	Definition of an offset applied to the buffer cylinder target temperature if the PV contact is closed.
Conf. ext. inputs	- Bridge, deactivated - Open, deactivated	Bridge (closed), deactivated (Open)	Dependant on 3rd party switching characteristics of installation Bridge, Deactive = Open for demand Open, Deactive = Closed for Demand **Any Vaillant zones will need to be linked when using a VR70/VR71**	VR 70 = 3rd party controls can be connected to S2 (zone 1) or S3 (zone 2) VR 71 = 3rd party controls can be connected to S6 (zone 1), S7 (zone 2) & S8 (zone 3) For sensoCOMFORT the switching method can be adjusted. See below table for further guidance.
Actuation reversal	- Off - On	On	On if cascade	Will only show if second unit with VR 32B is connected on ebus. If "On" is selected the actuation sequence of the heat generators is set daily according to the respective activation times.
Max. Pre-heating time	- Off - Up to 300 mins	Off	Off	The amount of time that the unit will heat before the demand is due to begin to provide additional comfort for the customer.
DHW in Cascade	- All heat pumps - Heat pump 1	All heat pumps	System Dependant	Whether all appliances in cascade, completes the DHW demand or the first heat pump alone.
OT constant heating	- Off - Down to -25°C	Off	Off	This is at what outdoor temperature, the heatpump will begin a constant CH demand. This should only be activated if the applianced serves a vunerable customer.

2.4.2 Basic system diagram config

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Basic system diagram code	1 - 16	1 or 8	8 or 10 for heat pumps 16 for cascades using VR32	8 - heat pump direct system 10 - heat pump indirect system 16 - cascaded appliances system
VR 70 configuration	1 - 12		Will be autopopulated based on start up assistant configuration.	If this needs to be adjusted, refer to sensoCOMFORT manual.
VR 70 MO	 Not working Cylinder charge pump Circulation pump Cooling signal Anti-legionella pump Heating pump 	Not working	Select appropriate for installation	Relates to R3 on VR70
FM5 configuration	1 - 11		Will be autopopulated based on start up assistant configuration.	If this needs to be adjusted, refer to sensoCOMFORT manual.
VR 71 MO	 Not working Cylinder charge pump Circulation pump Cooling signal Anti-legionella Pump Diff. temp. control 	Not working	Select appropriate for installation	Relates to R4 on VR71

2.4.3 HP control module configuration

Parameter	Select/Display	Factory setting	Suggested setting	Remark
MO 2	 Circulation pump Dehumidifier Zone Anti-legionella pump Not connected 	Circulation pump	Select appropriate for installation	Heat Pump Interface = MA2 Hydraulic Station = X11 uniTOWER = X11 flexoTHERM = X14
ME	 Not connected 1 x circulation Photovoltaics 	1 x circulation	Select appropriate for installation.	Heat Pump Interface = ME Hydraulic Station = X41 (FB & OT) uniTOWER = X41 (FB & OT) flexoTHERM = X41 (FB & OT)

2.4.4 Circuits 1 to 9

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Circuit type	 Inactive Heating Fixed value DHW Increase in return 	Heating	Heating.	Fixed Value may be used for buffer management or a towel rail circuit
OT switch-off threshold	10 - 99°C	21°C	21°C	Setting the outdoor temperature at which heating mode remains permanently switched off. (This is measured by the outdoor temperature wich should be located on a North/North West facing wall, 2/3rd's up the building). If a vunerable customer this may need to be increased. Energy Usage will increase if this parameter is set too high.
Target flow temperature, desired	5 - 90°C	65°C	As per installation	For circuit type only = Fixed value
Target flow temperature, set-back	0 - 90°C	0°C	As per installation	For circuit type only = Fixed value
DHW temperature	35 - 70°C	60°C	55°C Max.	For circuit type only = DHW
Actual cylinder temperature	Display in °C		**Read Only**	For circuit type only = DHW
Target return temperature	15 - 80°C	30°C	As per installation	For circuit type only = Increase in return flow
Heat curve	0.10 - 4.00	0.60	See heat curve graph below. Will need to know the design flow temperature of the installation at a given outdoor temperature to set accurately	Guidance only. 0.8 - 1.0 for radiator circuit. (New Build) 1.0 - 1.2 for radiator circuit (Existing) 0.6 - 0.8 for underfloor heating (UFH) However, ensuring this is set accurately will improve the efficiency of the appliance.
Minimum target flow temperature	15 - 90°C	15°C	25°C for Radiators 20°C for UFH	Enter the lower limit for the target flow temperature. The system control compares the set value with the calculated target flow temperature, and regulates to the larger of these values.

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Maximum target flow temperature	15 - 90°C	55°C	System design flow temperature + 5°C	Ensuring this is set accuratly. Will improve the efficiency of the appliance. **Please note that if a multi zone system is installed, the appliance will target the higher target flow temperature**
Set-back mode	- Eco - Normal	Eco	Vaillant controls = Normal 3rd party controls = Eco	Eco: The heating function is switched off and the frost protection function is activated. At outdoor temperatures below 4 °C for longer than four hours, the system control switches the heat generator on and regulates to the Set-back temp. Normal: The heating function is switched on. The system control regulates to the Setback temp.
Room temperature mode	- Inactive - Active Expanded	Inactive	Expanded	 Active: Adjusting the flow temperature based on the current room temperature. Expanded: Adjusting the flow temperature based on the current room temperature. The system control also activates/ deactivates the zone.
Cooling possible	- No - Yes	No	No, unless cooling coding resistor has been fitted and installation designed for cooling.	If "Yes" is selected the cooling function is released.
Dew point monitoring	- No - Yes	Yes	Yes if doing cooling	Will only show if cooling possible set to Yes.
Minimum cooling target flow temperature	7 - 24°C	20°C	20°C	Will only show if cooling possible set to Yes.
Dew point offset	-10-10 K	2k	2k	Will only show if cooling possible set to Yes.

2.4.5 Zones 1 to 9

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Zone activated	- No - Yes	Yes	Yes	Deactivates Zones that are not required. All existing zones appear in the display.
Zone assignment	 No assignmt Control Remote control 1 Remote control 2 Remote control 3 Remote control 4 	Control	SensoCOMFORT = Control VR92 = Remote control * If there is no Vaillant controller used for the zone then select no assignment.	Defines which controller is being used for the relevent heating zone.

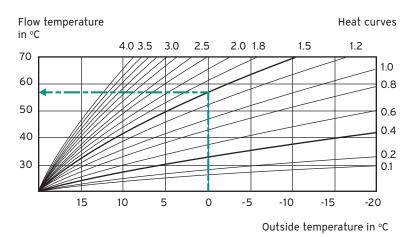
2.4.6 Domestic Hot Water

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Cylinder	- Inactive - Active	Active	Active	If no DHW on system then select inactive.
Anti-legionella day	 Off Monday Tuesday Wednesday Thursday Friday Saturday Sunday Daily 	Off	Select a day of the week	
Anti-legionella time	00:00 - 23:59	04:00	Select a relevant time **Avoid active hot water usage periods as this can prolong running periods. Consider times when ambient temperature are likey to be higher**	At the programmed day and time the cylinder is heated to 60°C for one hour and the circulation pump and legionella pump are activated. Consider when DHW will be used as the legionella program can run for up to 120 minutes if 60°C not reached. The use of a TMV (Thermostatic Mixing Valve) is recomended.
Cylinder charging hysteresis	3 - 20К	5.0K	5К	Allowed temperature drop of cylinder before reheating.

Parameter	Select/Display	Factory setting	Suggested setting	Remark
Cylinder charging offset	0 - 40K	25К	8k = Arotherm 2/3, Geotherm Mini & Flexotherm up to 8kW 10k = Flexotherm above 8kW 15K = Arotherm plus* *This allows optimum comfort for the customer. This can be lowered, leading to increased effciency in DHW. Please note that this will cause slightly longer run times.	Only with domestic hot water control via VRC 720
Max. cyl. charging time	- Off - 20 - 120 minutes	60 minutes	See below table	
Cylinder charg. anti-cycl. time	0 - 120 minutes	60 minutes	30 minutes	
Parallel cylinder charging	- No - Yes	No	No	

Domestic hot water temperatures are set in Control - Domestic hot water - domestic hot water temperatures: recommendation 48-55°C.

Heating curve graph



2.4.7 Cylinder charging times 10°C - 50°C

As a guide only, to ensure the heat pump can re-heat the cylinder in one cycle, and heating is not compromised. Times may need to be shortened if heat loss is high for the property so heating performance is not compromised. Maximum is 120 minutes for this parameter.

flexoTHERM & Geotherm Mini should be set to 90 minutes

aroTHE	RM plus	3.5 kW	5 kW	7 kW	10 kW	12 kW	aroTHE	RM 2/3	5 kW	8 kW	11 kW	15 kW
	150	110	74	55	37			150	88	55	40	
Litres	200	120	98	74	49	39	Litres	200	118	74	54	39
Littes	250			92	61	49	LILIES			92	67	49
	300			110	74	59		300		110	10 80 59	
										ı		

Reheat time in minutes

Reheat time in minutes

You have successfully completed the controls set up/controls commissioning for the sensoCOMFORT control.

2.5 Final Checks of crucial settings (before standard programming settings)

The system should start in DHW mode in the first instance (if DHW is active), this will be confirmed with a tap and pump symbol showing on the display.

It is important to ensure that the flow rates and temperature differential between flow and return pipes are correct. A 5°C (5K) differential is ideal for optimum efficiency with a cold fill pressure of 1.5 - 2 bar. Flow rates can be viewed by using the relevant interface display.

Access by pressing the top 2 buttons at the same time (possibly twice as usually the first press will light the display up)

Use the + button to scroll down the menu to installer level, press top right-hand button to select The access code is 17, use + button to adjust, press top right-hand button to select Use the + button to scroll down to Test menu, press top right-hand button to select Use the + button to scroll down to Sensor/Actuator test, press top right-hand button to select Press + button until Building circuit: Flow rate is displayed.

If the flow rate needs to be adjusted, then this can be accessed by following the below **Not available on aroTHERM plus**:

Access by pressing the top 2 buttons at the same time (possibly twice as usually the first press will light the display up) Use the + button to scroll down the menu to installer level, press top right-hand button to select The access code is 17, use + button to adjust, press top right-hand button to select Use the + button to scroll down to Configuration, press top right-hand button to select Press the + button 7 times to Max. remaining feed head, press top right-hand button to adjust



Note. You may need to adjust max. remaining feed head and recheck the flow rate in test menu - sensor/actuator test - building circuit flow rate. Max remaining feed head parameter adjusts the pump in both heating and domestic hot water modes.

2.6 Target flow rates

2.6.1 aroTHERM 2/3						
kW output	5 kW	8 kW	11 kW	15 kW	-	-
Nominal flow rate	800 l/h	1350 l/h	1850 l/h	2500 l/h	-	-
2.6.2 aroTHERM 2/3	3					
kW output	3.5 kW	5 kW	7 kW	10 kW	12 kW	-
Nominal flow rate	800 l/h	800 l/h	1200 l/h	2000 l/h	2000 l/h	-
2.6.3 aroTHERM spl	it					
kW output	3.5 kW	5 kW	7 kW	10 kW	12kW	-
Nominal flow rate	600 l/h	800 l/h	1000 l/h	1700 l/h	1800 l/h	-
2.6.4 flexoTHERM (I	Building circuit)					
kW output	5 kW (230V)	8 kW (230V)	11 kW (230V)	11 kW (400V)	15 kW (400V)	19 kW (400V)
Nominal flow rate	930 l/h	1450 l/h	1930 l/h	1920 l/h	2450 l/h	3320 l/h

2.7 Setting the desired Comfort and Set-back temperatures

Desired temperature

This is set by proceeding through the menu. (CONTROL > ZONE > HEATING > MODE). Once this stage is reached, the mode can be set to Manual or Time Controlled. If set to manual, the desired temperature will simply show under the mode option. If set to time controlled, you will set a time program alongside a desired temperature. This allows multiple desired temperatures that can vary from one time program to another.

Set-back temperature

If the heating mode is set 'Time Controlled', the sensoCOMFORT will allow a setback temperature to be set. This is accessed following the same process as above (CONTROL > ZONE > HEATING > MODE). However, the set-back is the temperature that the heating system will allow the property to drop to, outside of a time program period. This is recommended to be set no lower than 15 degrees to prevent excessive temperature drops and therefore longer running times when the time program is activated.

3 Top 10 schemes in the UK

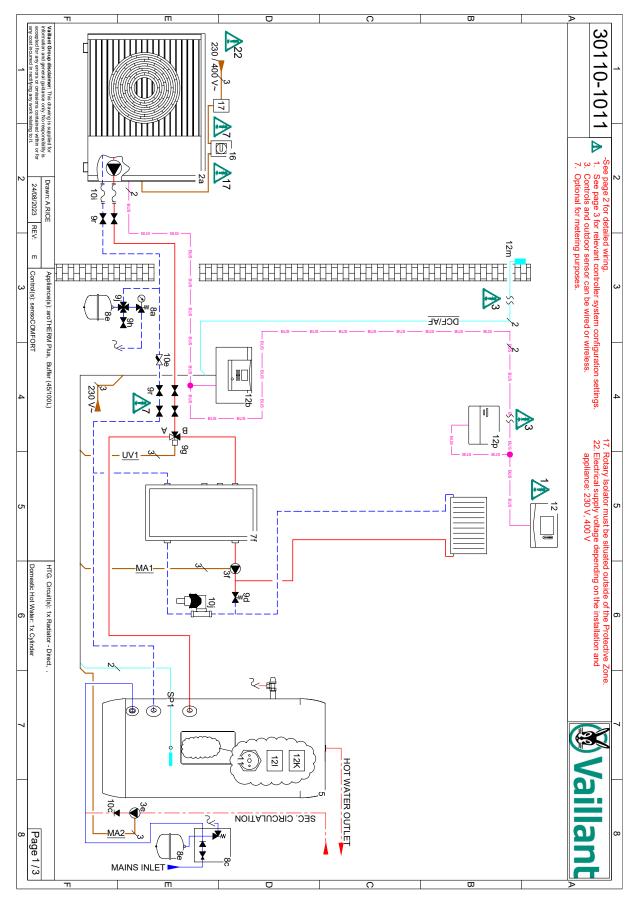
The next pages contain the top 10 schemes used in the UK currently.

These are by no means the only schemes, Vaillant may have supplied a different or a bespoke schematic to an individual system. Any Vaillant schematic will contain all the same information including all the individual settings for that system, some settings will be marked "Site specific" which will require additional information unique to the installation site and customer requirements.

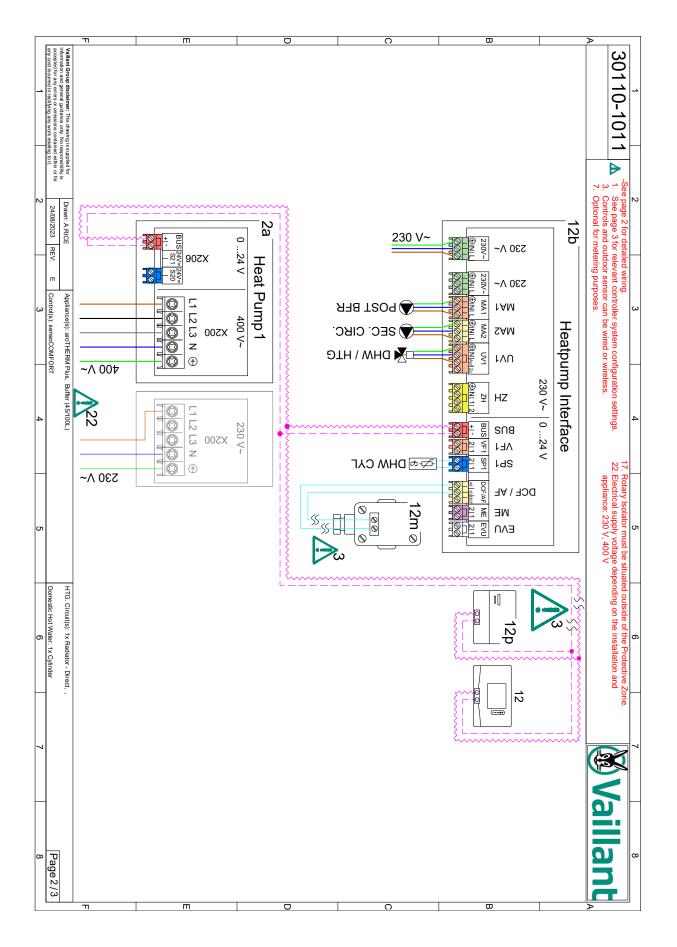
Specific schematic designs may be requested from our design support team.



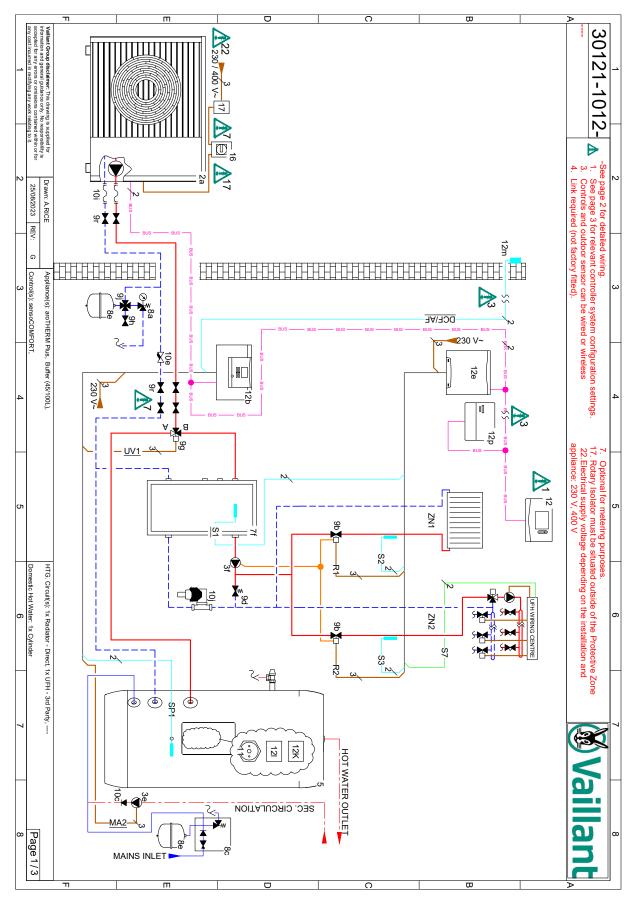
Scan or Click QR-Code for more aroTHERM schematics



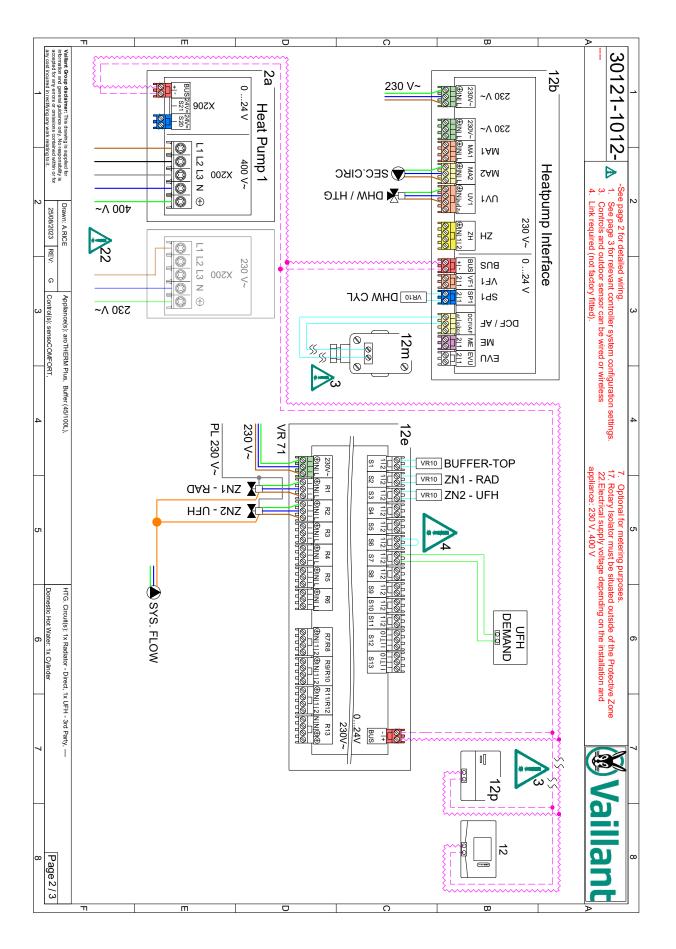
3.1 30110-1011 aroTHERM plus mono Direct, Buffer, Cylinder, 1 Rad zone



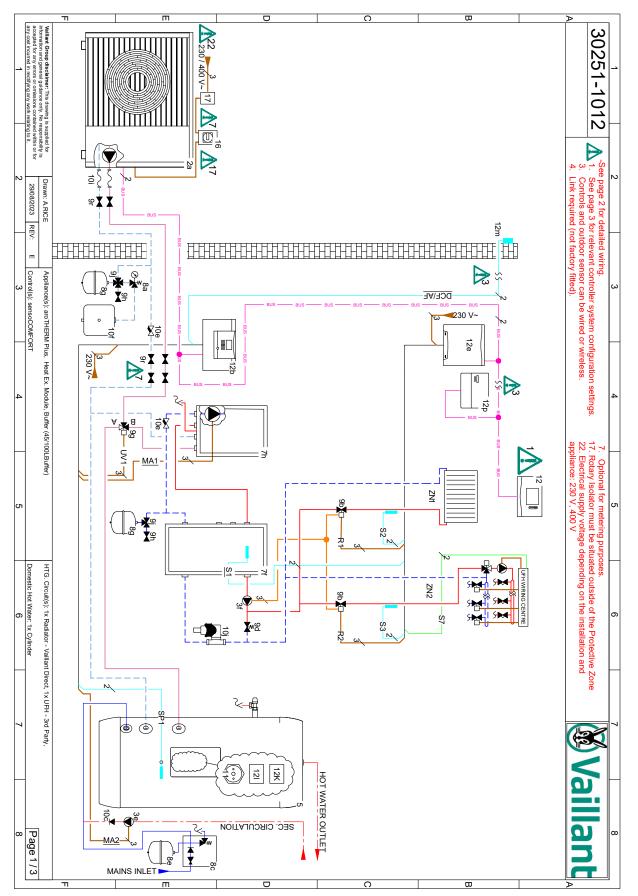
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2		_			5 min	15 K	**User preference	**User preference	Active	water	Control	Yes		Expanded	Normal	45°	15°	**Site specific	30°		Circulation pump	onfiguration	10	am config.	Off	HP + BUH Off	Off	-20°	-20°	Bivalence pt		Value	splayed, commissi		aillant be liable to you or a ations or warranties of an ations shall be governed to the second statement of the second statem	gn must have the prior pe installation and later use	t to alteration at any time. r any inaccuracies or omi	SAFE / MCS SAFE / MCS		-
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C.	E Control(s): sensoCOMFORT		-																														Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the prope	sensoCOMFORT	In no circumstances shall valiant be liable to you or any other third parties for any loss or dange (including, without limitation, damage for loss of business or loss of portils) arising directly or indirectly from your Valiant makes no representations or waranties of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is i These disclaimers and exclusions shall be governed by and construed in accordance with English law.	Any reproduction of the design must have the prior permission of Valilant. During the planning, design, installation and later use of the system, all operating instructions must be followed	The Diagram may be subject to alteration at any time. Valilant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams	BE SOUGHT. VAILLAN	Terms	1
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	-		Indicates No. of cable cores		Indicates Cable Junction	eBUS -	eBUS +	Low Voltage Demand Signal	Low Voltage Sensor Wire	230/400V Wire	Glycol Return	Glycol Flow	Heating Flow	Domestic Cold Water	REV DATE	E 24/08/2023									16 Rotary Isolator 17 Electric Meter	0	12I Cylinder Thermostat 12m Outdoor Temperature Sensor						10c Non-return Valve			05 uniSTOR DHW Cylinder 07f 45/100L Buffer 08a Pressure Relief Valve	(p			
α	Page 3/ 3		ores	-	BUS -			ignal BUS							DESCRIPTION	Updated ESCO settings	Added aroTHEM Plus 400v option									7	tat ture Sensor	-	ice			ă		Service Valve	Group kpansion Vessel	ylinder ₃lve	ation Pump			
1	Ľ	°	Ц	1			5	Ч				Ļ								0							0							8]



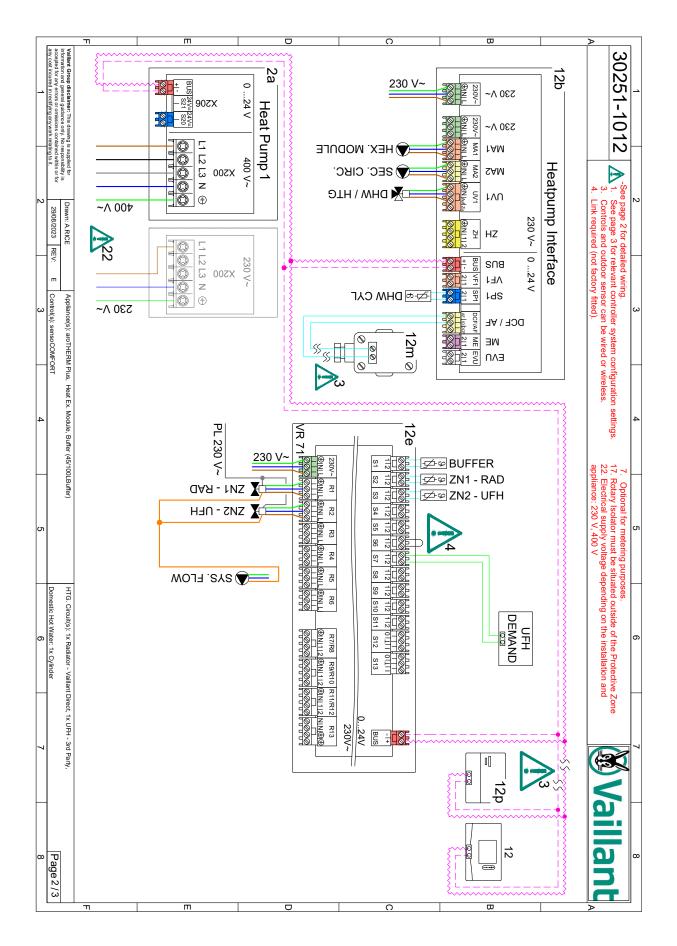
3.2 30121-1012 aroTHERM plus mono Direct, Buffer, Cylinder, 1 Rad zone, 1 UFH circuit



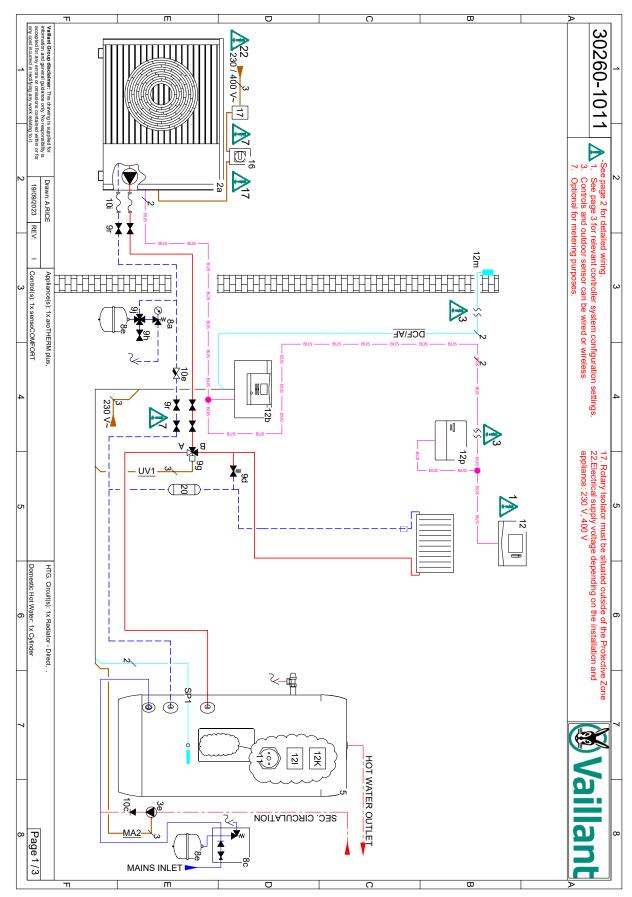
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32 REV: G Control(s): senseCOMFORT, 3 3 4 5	ICE Appliance(s): aro THERM Plus, Buffer (45/100L),					Anti-legio, itme≀ **User preference Anti-legio, itme≀ **User preference	Cylinder: Active	Zone assignment No assignmt	Zone 2 Zone activated: Yes	Zone assignment: Control	Zone activated: Yes	Zone1	Set-back mode: Eco			OT switch-off threshold: 30° Heat curve: ""Site specific		Gircuit 2	should be done	sensoCOMFORT VRC720/2 System Configuration	In no circumstances shall Valiant be lable to you or any other third parties for any loss or damage (not-ding, without limitation, damage for loss of business or loss of portis) arising directly or indirectly from your use of or inability to use, this dagram, Valiant makes no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the dagram is therefore strictly at your own risk. These discialmers and exclusions shall be governed by and construed in accordance with English law.	rVallant. em, all operating instructions must be followed.	All applicable laws and regulations must be followed. The Diagram may be subject to alteration at any time. Valland is on response for any inservincies or prime.	PLEASE NOTE THAT THE DIAGRAM PROVIDED IS FOR GENERAL INFORMATION PURPOSES ONLY. THE ADVICE AND INPUT OF A PROFESSIONAL, QUALIFII SAFE / MCS INSTALLER MUST BE SOUGHT. VAILLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	Terms and Conditions for Vaillant Schematic Diagrams
Domestic Hot Water: 1x Cylinder 6 7	HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,	eBUS + Indicates	230/40Y Low Volt Low Volt	Glycol Return Glycol Return Glycol Return	Domestic Hot W Heating Flow Cooling Flow	REV Domestic	۵ بر						12m OL 12p Wi			<u> </u>	101 He 10j Me	00	rty and system requirements.	2 4	09d	-	02 arc 03e Se 03f Ge	SSIONAL DESIGN OF THE SYSTEM.	ns .
Page 3/3		eBUS +	230/400/ Wire	3 ReturnE	Domestic Hot Water	REV DATE DESCRIPTION ZONE	25/08/2/023 Added anoTHERM Plus 400V option 2.E					Rotary Isolator Electric Meter	Outdoor Temperature Sensor Wireless Reciever	Cylinder Thermostat	71	Immersion Heater Heat Pump Interface	r lexible Connection Magnetic Filter	Non-return Valve Y Strainer	Expansion Vessel Service Valve Isolation Valve	Fill / Drain Valve	ıp sion Vessel	uniSTOR DHW Cylinder 45/100L Buffer	aroTHERM Plus Secondary Circulation Pump General Pump		



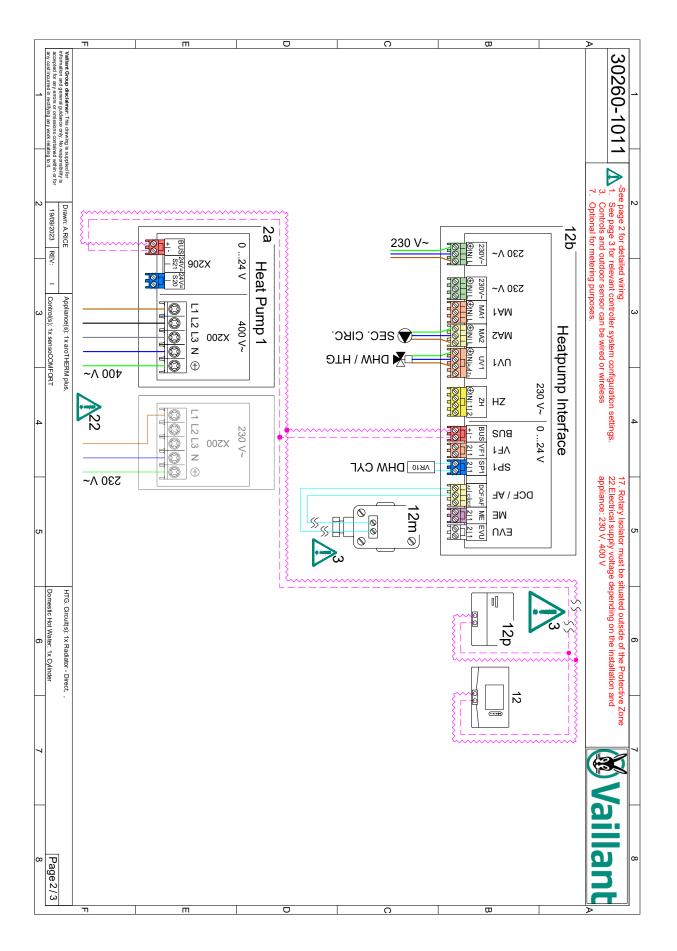
3.3 30251-1012 aroTHERM plus mono HEX, Buffer, Cylinder, 1 rad zone, 1 UFH 3rd Party



any cost incurred in redifying any work relating to it. 29		<u> </u>			Min. target flow temperature: 15°		Circuit 1	MO 2: Circulation pump		FM5 configuration: 3	Basic system diagram code: 10	Basic system diagram config.	Conf. ext. input: Open, deactiv.	Back-In boiler Off	Alternative point: Off	DHW bivalence point: -20°	Heating bivalence point: -20°	Hybrid manager: Bivalence pt	Adapt. heat curve: Deactivated	Setting Value Installation	Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements		 In on occumstances shall valiant be liable to you or any other third parties for any bost or damage (including, without limitation, damage for loss of business or loss of profits) arising directly or indirectly from your use of or inability to use, this day 7. Valiant makes no representations or writeratives of any kind, express or implied about the completeness, accuracy, reliability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk. These disclaimers and exclusions shall be governed by and construed in accordance with English law. 	 Any reproduction of the design must have the prior permission of Vaillant. During the planning, design, installation and later use of the system, all operating instructions must be followed 	All applicable laws and regulations must be followed. The Olagram may be subject to alteration at any time. The Olagram may be subject to alteration at any time. S. Vallant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams S. Vallant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams	A 30251-1012 PLEASE NOTE	
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7	1x UFH - 3rd Party,	Indicates Cable Junction Indicates No. of cable cores	230/400V Wire Low Voltage Sensor Wire Low Voltage eBUS Low Voltage Demand Signal eBUS - eBUS -	Heating Flow Heating Return Glycol Flow Glycol Return	REV DATE DESCR	E 29/08/2023 Added aroTHERM					16 Rotary Isolator			12K High Limit Cut Out		10j Magnetic Filter 11 Immersion Heater		10e Y Strainer 10f Brine Collection Tank			nts. 09g Diverter Valve 09h Fill / Drain Valve		08 08 08 08 08 08	05 uniSTOR DHW Cylinder 07f 45/100L Buffer 07h HFX Machule	02 aroTHERM Plus 03e Secondary Circulation Pump 03f General Pump), cas 💓 Vail	7
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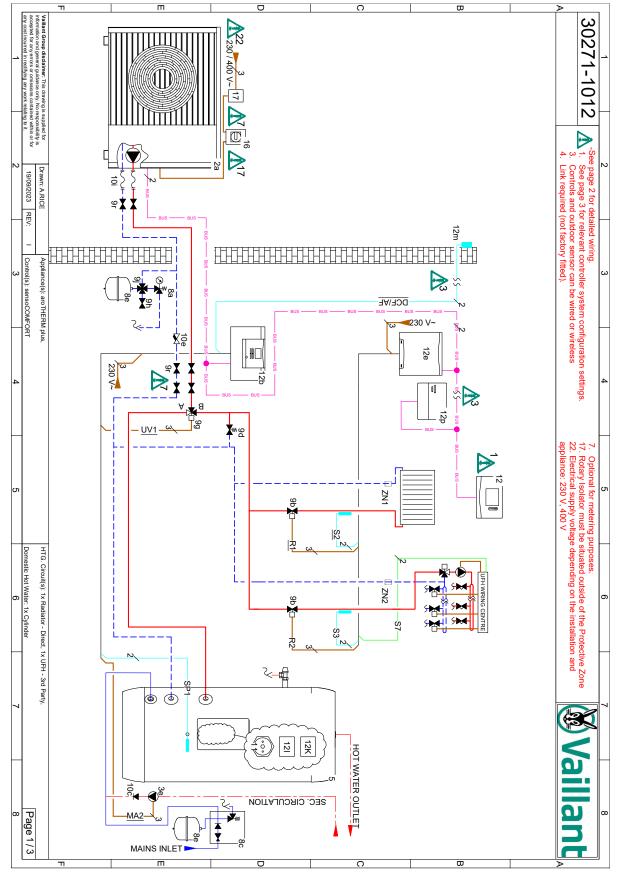


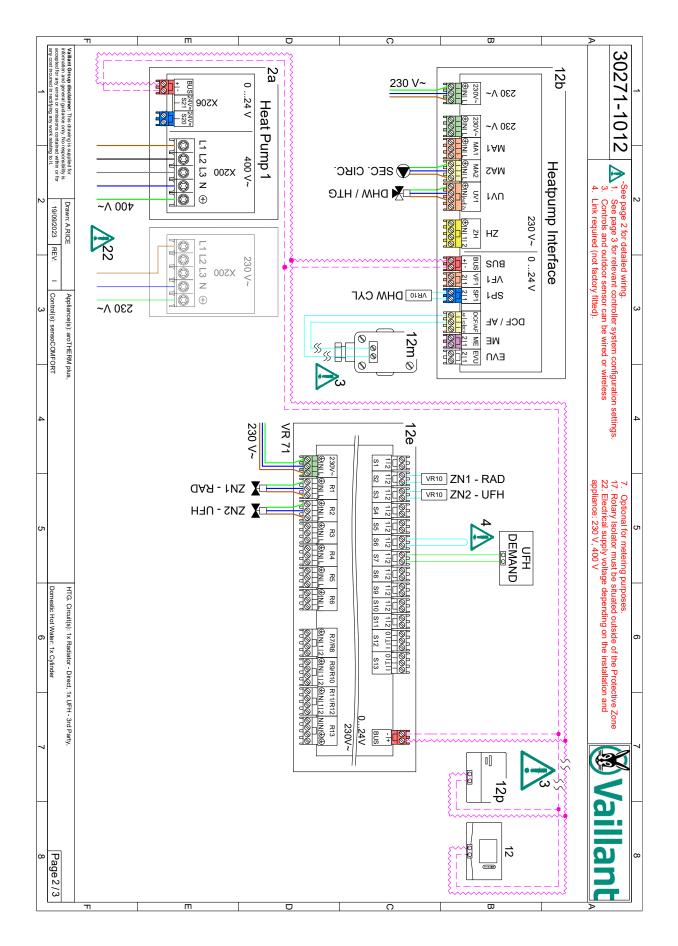




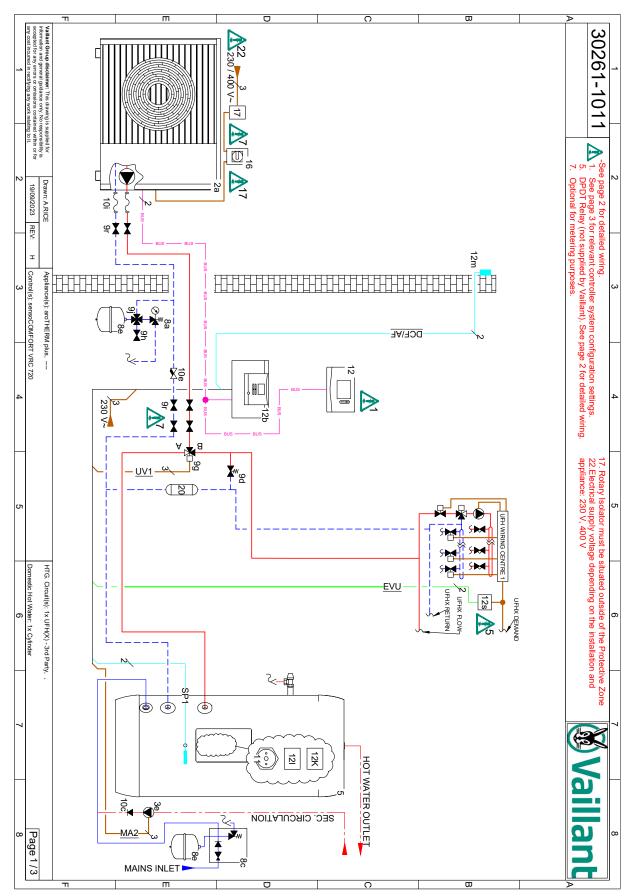
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7 Page 3/3	res	Indicates Cable Junction BUS	eBUS +	Low Voltage eBUS BUS BUS BUS	r Wire		Glycol Flow		REV DATE DESCRIPTION Domestic Cold Water	1 19/09/2023 Added aroTHERM plus 400V option							20 Volumiser	16 Rotary Isolator C 17 Electric Meter	b Wireless Reciever	-	12K High Limit Cut Out 12I Cylinder Thermostat	12 sensoCOMFORT 12b Heat Pump Interface		10e Y Strainer 10i Elevible Connection	09r Isolation Valve B 10c Non-return Valve	Divetter Valve Divetter Valve Fill / Drain Valve Expansion Vessel Service Valve		ω	02 aroTHERM plus 03e Secondary Circulation Pump 05 uniSTOR DHW Cylinder			7 8

3.5 30271-1012 aroTHERM Mono 1 x Radiator direct, Cylinder, 1 x UFH with 3rd party control

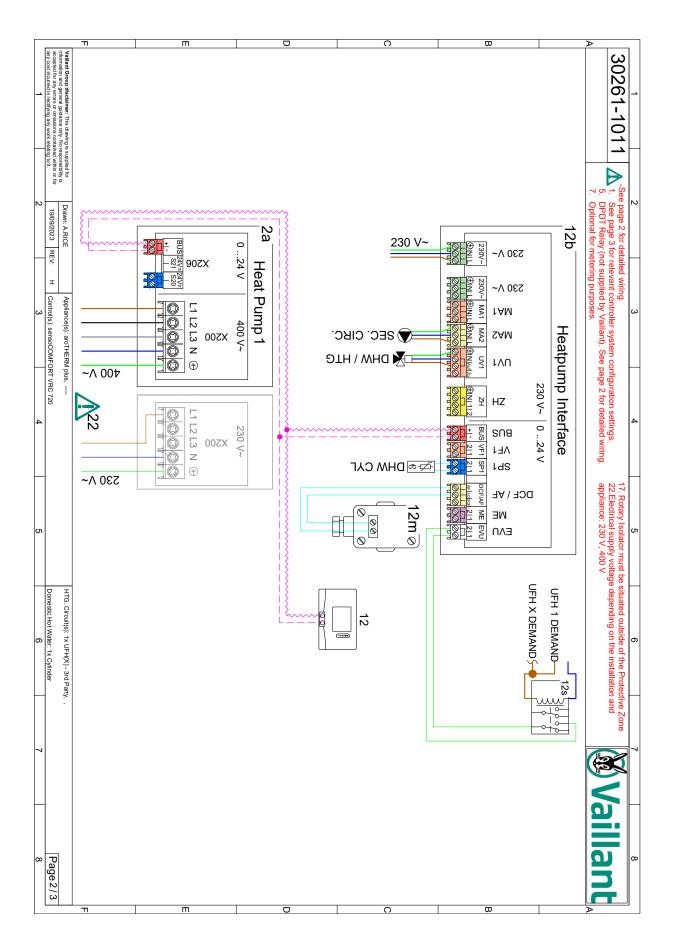




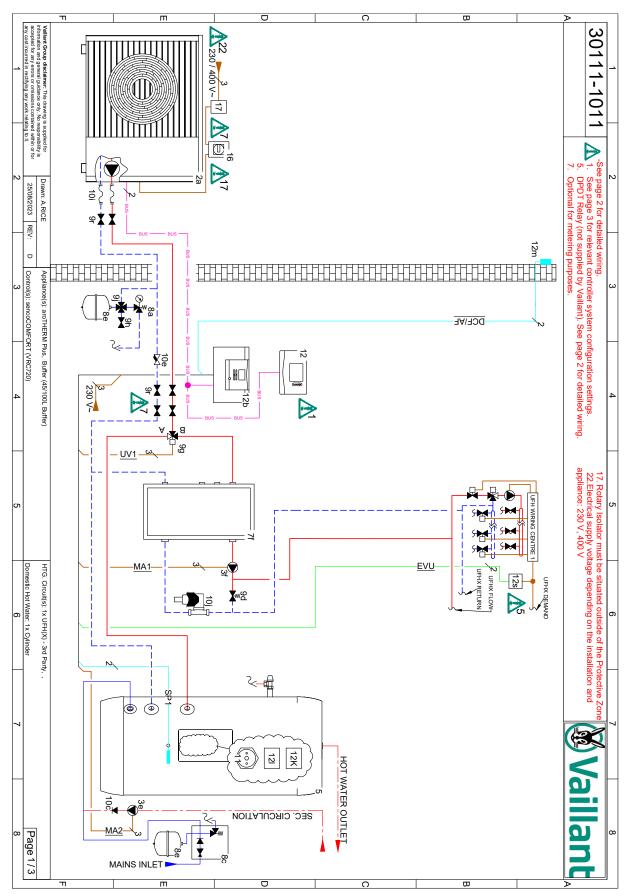
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REV:						Cyl. charg. anti-cycl. time:			Anti-legio. day:	Domestic hot water	Zone assignment: No assignmt	Zone activated:	Zone 2		Zone activated:	Zone1	Room temp. mod.: Inactive			Heat curve:	OT switch-off threshold:	Circuit type: I	Circuit 2	the controller should be	sensoCOMFORT	Uning the planning, design, installation and later use of the system, al operating instructions insits te olivowe In no circumstances shall Valilant be liable to you or any other third parties for any loss or damage (including, w Valilant makes no representations or warranties of any kind, express in rimpleta about the completeness, accur These disclaimers and exclusions shall be governed by and construed in accordance with English law.	Vallant is not responsible for any inaccuracies or omissions in the information and drawings provided to II and upon which it relies when constructing the diagrams Any reproduction of the design must have the prior permission of Vallant.		I NT THE DIAGRAM PROVIDE LLER MUST BE SOUGHT.	- -
Control(s): sensoCOMFORT	(s): aroTHERM plus.					5 min	15 K	**User preference	**User preference	vater	Vo assignmt	Yes		Control	Yes		Inactive	45° (Assumed)	15°	**Site specific	30°	Heating	Value	done diligenuy; goin	ORT VRC 72	t be rollowed. > (including, without limitatio reness, accuracy, reliability - law.	ded to it and upon which it r		erms and Con ED IS FOR GENERAL VAILLANT IS NOT RE	
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Domestic Hot Water: 1x Cylinder	HTG. Circuit(s): 1x Radiator - Direct. 1x UFI																							asplayed, commissioning or ine concert stroute e corre diligently. Joing unougn each adjustable option with consideration to the property and system requirements.		ctly from your use of or inability to use, this diagram, ne diagram is therefore strictly at your own risk			I erms and Conditions for Vaillant Schematic Diagrams Please note that the diagram provided is for general information purposes only. The advice and input of a professional, qualified, gas SAFE / MCS INSTALLER MUST BE SOUGHT. VAILLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	c
T- STO Faity,	4 - 3rd Party.	Indicates Cable Junction Indicates No. of cable cores	230400V Wire Low Voltage Sensor Wire Low Voltage Bells Low Voltage Demand Signal eBUS + eBUS -	Glycol Return	Heating Flow Heating Return	Domestic Cold Water Domestic Hot Water	1 1	I 19/09/2023 Added aroT									17 Electric Meter	0	12n Outdoor Temperature Sensor		12e Wiring Centre - VR 71		10i Flexible Connection 11 Immersion Heater	10e Y Strainer	09r	096 096 096	05 unISTOR DHW Cylinder 08a Pressure Relief Valve 08c DHW Inlet Safety Group	œ		
Page 3/3		ν γω _S	₽ BUS				DESCRIPTION ZONE	Added aroTHERM plus 400V option 2,E											9 Sensor		<u> </u>				ervice valve	insion Vessel	9 ger	n Pump	illant	c



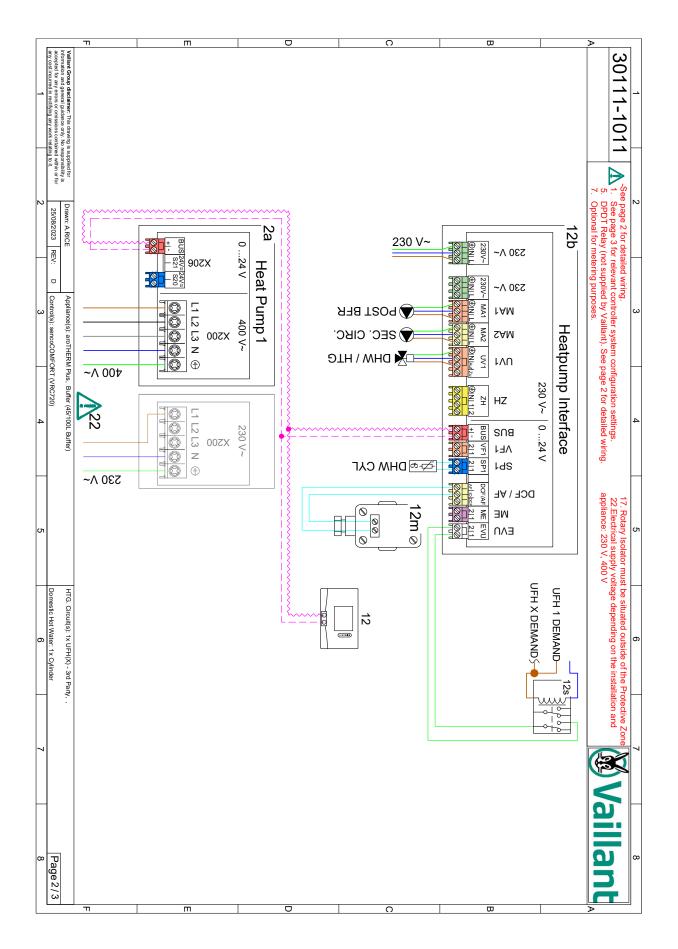
3.6 30261-1011 aroTHERM Mono Cylinder, 1 x UFH 3rd Party



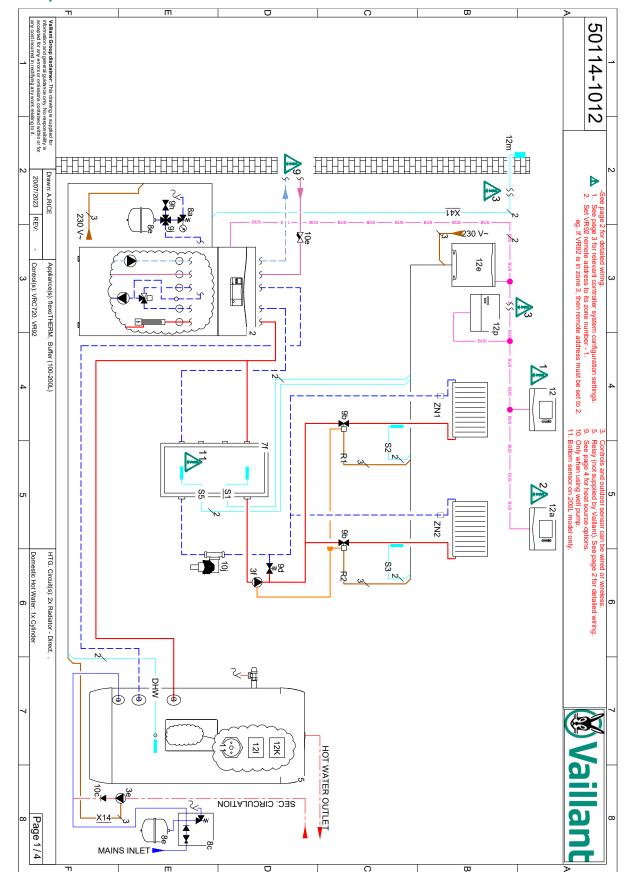
1	accepted for any errors or omissions contained within or for 19/09/2023 REV: any cost incurred in rectifying any work relating to it	Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is Drawn: A.RICE						Room temp. mod.: Inactive	Set-back mode: Eco	Max. target flow temperature: 45°	Min. target flow temperature: 15°	Heat curve: **Site specific	OT switch-off threshold: 30°			HP control module configuration	ram config.	Off	ESCO: Heating off		DHW bivalence point:	Heating bivalence point: -20°	Hybrid manager: Bivalence pt	Adapt. heat curve: Deactivated	Installation	Softing are unsprayed, continuisation in the co		σ 	 Vallant makes no representations or warranties of any kind, express or implied about the completence These disclaimers and exclusions shall be governed by and construed in accordance with English law 		 Any reproduction on the design industriated the prior permission or variant. 5. During the planning, design, installation and later use of the system, all operating instructions must be followed. 			-		
3	V: H Control(s): sensoCOMFORT VRC 720	Appliance(s): aroTHERM plus,																		Anti-legionella day **User preference	Cylinder active	DHW circuit	Zone assignment: No assignmt	Zone activated: Yes	Zone1		Selisucomport vice zorz system com	ot VDC 700/2 System	Valiant makes no representations or warranties of any kind, express or impled about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk. These disclaimers and exclusions shall be governed by and construed in accordance with English law.	In no circumstances shall Valiant be lable to you or any other third parties for any loss or damage (including, without limitation, damage for loss of business or loss of profits) arising directly or indirectly from your use of or hability to use, this dagram,	- perating instructions must be followed.	Valiant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams		SAFE / MCS INSTALLER MUST BE SOUGHT. VAILLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	DIAGRAM PROVIDED IS FOR GENERAL INFORMATION PURPOSES ONLY. THE ADVICE AND INPU	Torme and Conditione for Vaillant
თ 	Domestic Hot Water: 1x Cylinder	HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,																								spuori with consider attorn to the property and system requirements.	configuration		rrpose. Any reliance you place on the diagram is therefore strictly at your own risk.	s of profits) arising directly or indirectly from your use of or inability to use, this diagram				TIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	DNLY. THE ADVICE AND INPUT OF A PROFESSIONAL. QUALIFIED.	Cohomatic Diagrame
7 8	Page 3/3		Indicates No. of cable cores	Indicates Cable Junction	Low Voltage Sensor Wre Low Voltage BLS	230/400V Wire	Heating Return	Domestic Cold Water	REV DATE DESCRIPTION	H 19/U9/2/23 Added aroTHERM plus 400/ option	_			D						17 Electric Meter	Rotary Isolator	2	12K High Limit Cut Out 12I Cylinder Thermostat		11 Immersion Heater 12 sensoCOMFORT	10i	10c Non-return Valve 10e Y Strainer	09j Expansion Vessel Service Valve 09r Isolation Valve	09g Diverter Valve 09h Fill / Drain Valve	09d		08a Pressure Relief Valve	æ			



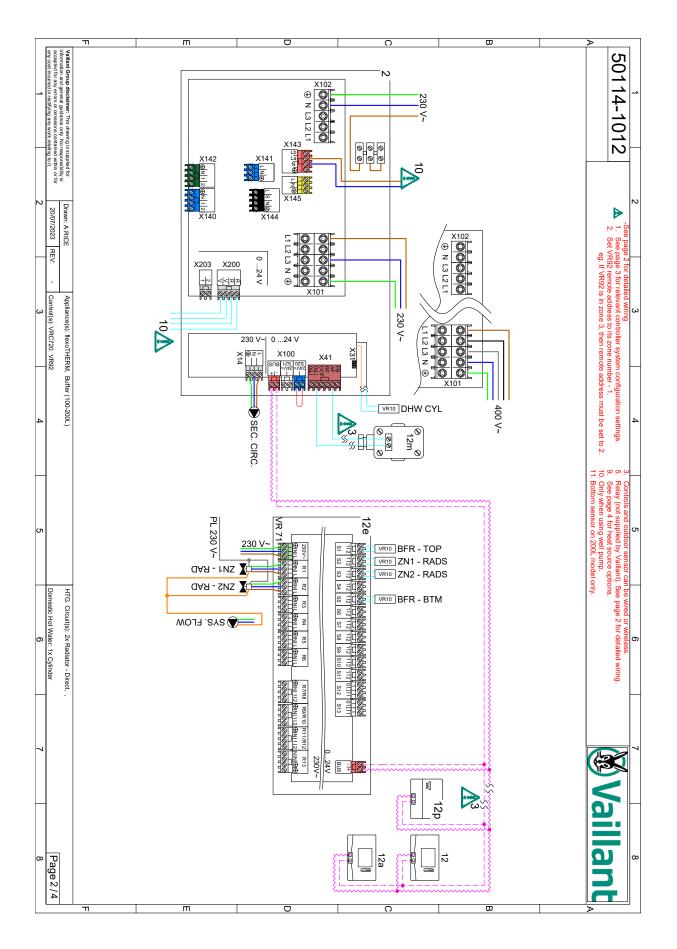
3.7 30111-1011 aroTHERM plus Mono Buffer, Cylinder, 1 x UFH 3rd Party



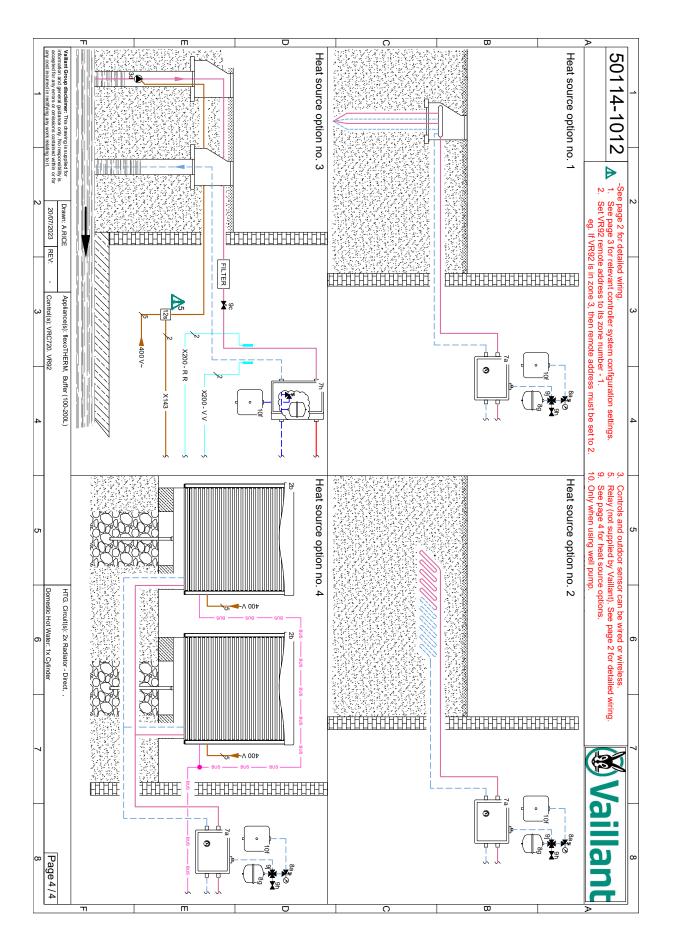
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Drawn: A.RICE Appliance(s): anoTHERM Plus, Buffer (45/100L Buffer) 2508/2023 REV: D Control(s): sencocCOMFORT (VRC720) 2 3 4	Concepte bankpace Seture of the syntex of the set of the sontex on the seture of the sontex on	1 2 3 4 5 O1111-10011 Terms and Conditions for Vaillant Schematic Diagrams PLEASE NOTE THAT THE DIAGRAM PROVIDED IS FOR GENERAL INFORMATION PURPOSES ONLY. THE ADVICE AND INPU All applicable laws and regulations must be followed. All applicable laws and regulations must be followed. The Diagram may be subject to alteration at any time. The Object of alteration at any time. Valiant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams. Yaliant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams. Yaliant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams. Yaliant is not responsible for must have the prior permission of Yaliant.
HTG. Circuit(s): 1x UFH(X) - 3rd Party, , Domestic Hot Water: 1x Cylinder 5 6	Note online table to be one of the years. If you can use in the dots. The diabation at the label by or or years of any bit on the analysis of the theorem as ourse, which years are or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years of any bit on the ange to the years or years o	2 3 4 5 6 Terms and Conditions for Vaillant Schematic Diagrams PLEASE NOTE THAT THE DIAGRAM PROVIDED IS FOR GENERAL INFORMATION PURPOSES ONLY. THE ADVICE AND INPUT OF A PROFESSIONAL, QUALIFIED, GAS SAFE / MCS INSTALLER MUST BE SOUGHT. VAILLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM. stabe followed: to any time: curacies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams. ave the prior permission of Vallant.
7 Page 3/3		s Vallant General Pumpos General Pumpos General Pumpos General Pumpos General Pumpos UniNSTOR DHW Oylinder

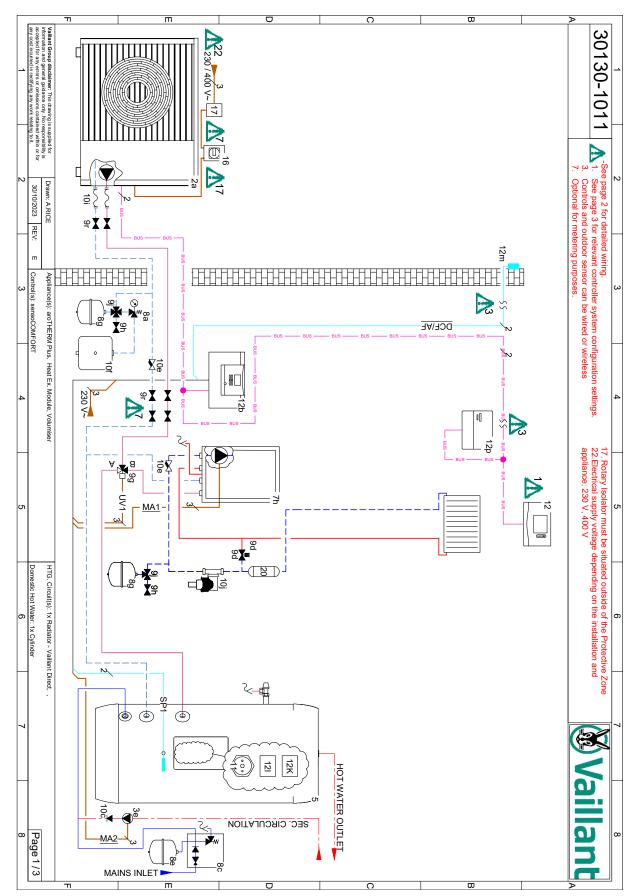


3.8 50114–1012 flexoTHERM Buffer Management, 1 x Radiator Direct 3rd Party, 1 x UFH 3rd Party

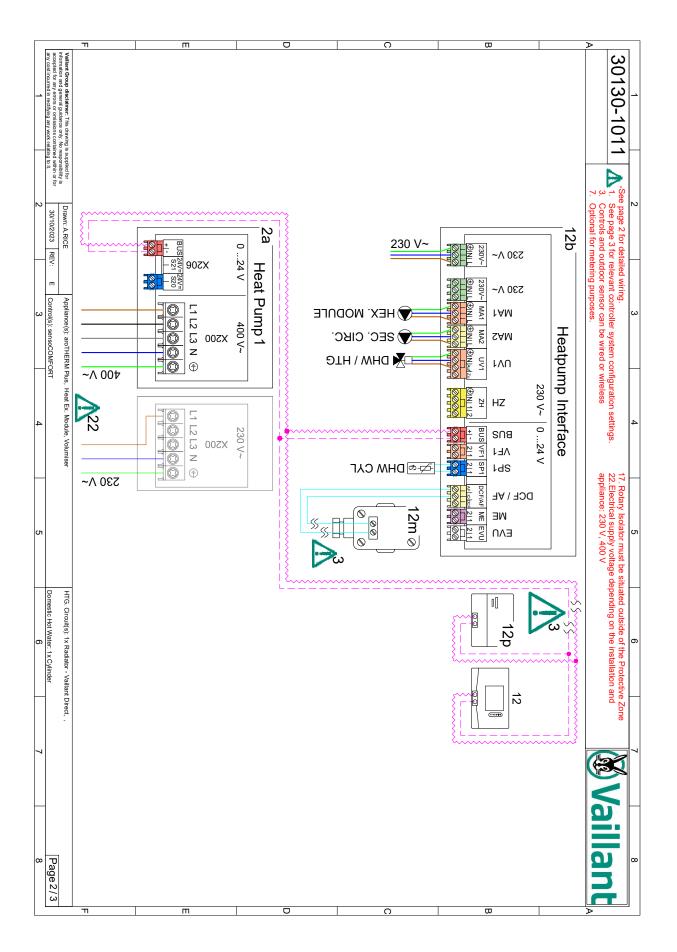


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HIG. Circuit(s): 2x Radiator - Direct, , Domestic Hot Water: 1x Cylinder	suffer (100-200L)	Appliance(s): 11eX01 HERM, Butter (100-200L)	20/07/2023 REV: - Con	Drawn: 20/07/	vaniant Group bustanner: Inis drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for per oper lower of the provide one under a before to it.
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		ime: 5 min	Cyl. charg. anti-cycl. time: 5 min		Max. target now temperature: 45° Set-back mode: Normal
		tset: 15 K	Cylinder charging offset:		
		ime: **User preference	Anti-legio. time:		_
			Anti-legio. day:		-
		ider: Active	Cylinder:		Circuit type: Heating
		Domestic hot water	Domestic		Circuit1
		Zone assignment: Rem. contr. 1	Zone assignm		FM5 MO: Not working
		ated: Yes	Zone activated: Yes		FM5 configuration: 3
		Zone 2	Zo		Basic system diagram code: 8
		1ent: Control	Zone assignment:		Basic system diagram config.
		ated: Yes	Zone activated: Yes		Conf. ext. input: Bridge, deactiv.
		Zone 1	Zo		Back-up boiler: Off
		1od.: Expanded	Room temp. mod.:		ESCO: HP + BUH off
		ode: Normal	Set-back mode:		Alternative point: Off
			Max. target flow temperature:		
			Min. target flow temperature:		
		Irve: **Site specific	Heat curve:		Hybrid manager: Bivalence pt
		nold: 30°	OT switch-off threshold:		Automatic cooling: Deactivaed
		ype: Heating	Circuit type:		Adapt. heat curve: Deactivated
		Circuit 1			Installation
		Value	Setting		Setting Value
tion to the property and system requirements	Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.	ld be done diligently	g of the controller shoul	issioning	Not all settings are displayed, commis
	System Configuration	sensoCOMFORT	sens		
		English law.	construed in accordance with t	ied by and	These disclaimers and exclusions shall be governed by and construed in accordance with English law.
ce on the diagram is therefore strictly at your own risk.	Valiant makes no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk.	completeness, accuracy, rel	, express or implied about the c	of any kind,	
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	nich it relies when constructing the diagrams.	is provided to it and upon w	in the information and drawing:	omissions	
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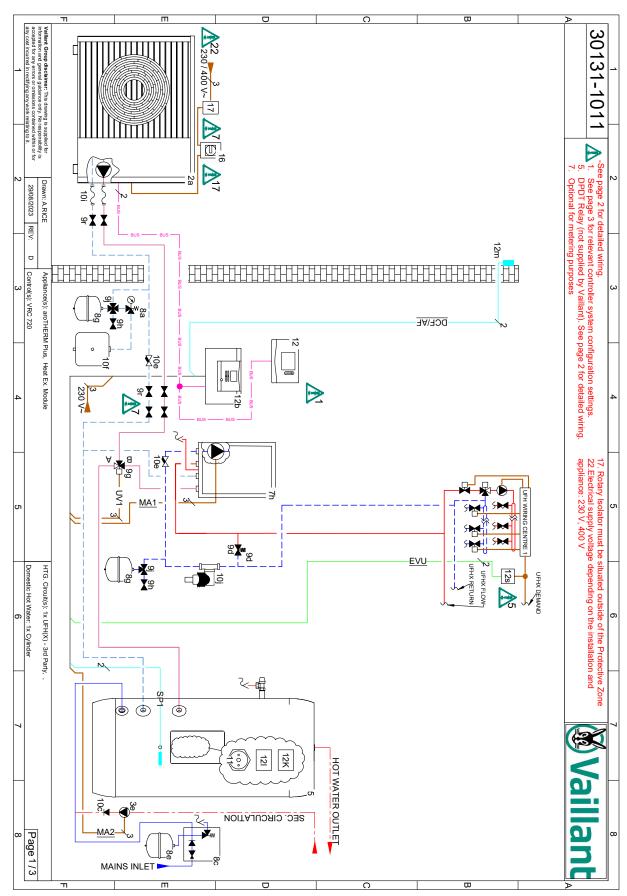




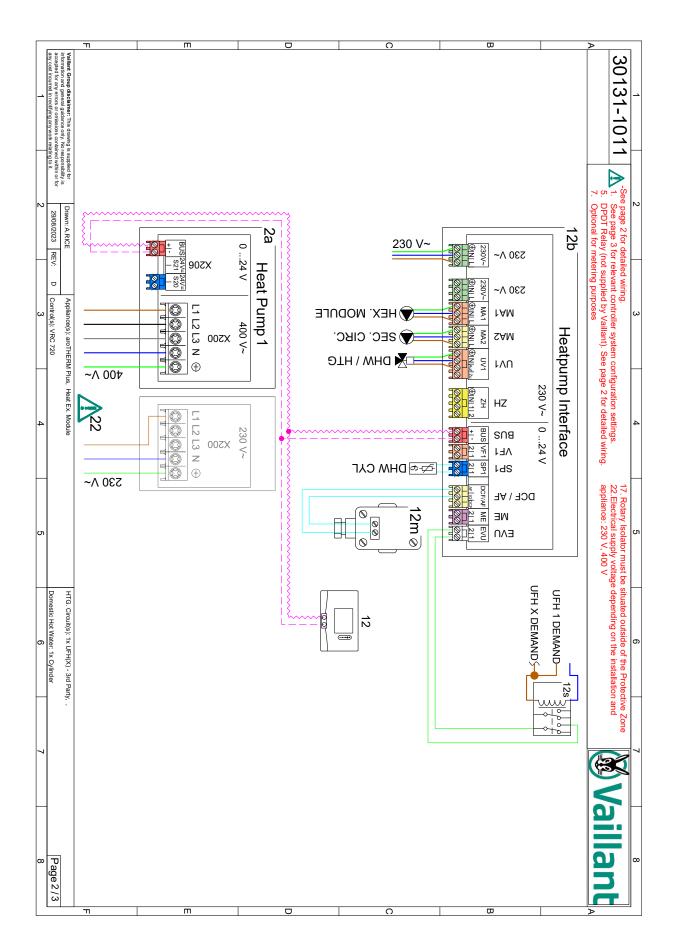
3.9 30130-1011 aroTHERM Mono HEX, 1 x Cylinder, 1 x Radiator Direct



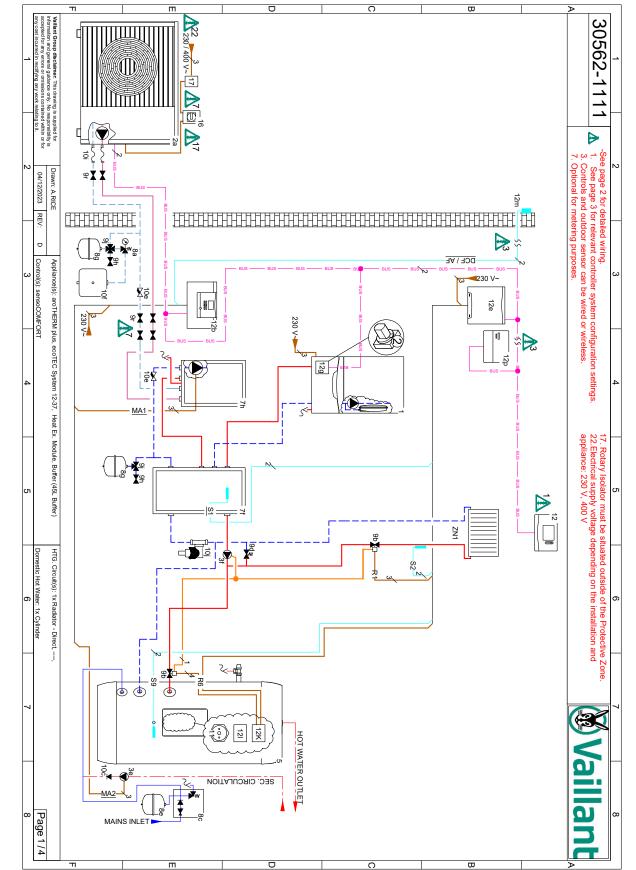
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Appliance(s): aroTHERM Plus, Heat Ex, Module, Volumiser REV: E Control(s): sensoCOMFORT 3 4																	liligently: going through each adju	sensoCOMFORT VRC 720/2 System Con	In no circumstances shall Vallant be liable to you or any other third parties for any loss or damage (including, without limitation, damage for loss of business or loss of profits) arising directly or indirectly from your use of or inability to use, this diagram. Vallant makes no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk. These discialmers and exclusions shall be governed by and constitued in accordance with English law.	lant.	All applicable laws and regulations must be followed. The Diagram may be subject to alteration at any time. Valilate is not reasonable for any transition of the information and drawings provided to it and upon which it relies when constructing the diagrams	I erms and Conditions for Vaillant Schematic Diagrams Please note that the diagram provided is for general information purposes only. The advice and input of a professional, qualifies a system of the system of the professional design of the system.
bomestic Hat Water, 1x Cylinder																	potion with consideration to the property and system requirements.	Configuration	s of profits) arising directly or indirectly from your use of or inability to use, this diagram. upose. Any reliance you place on the diagram is therefore strictly at your own risk.			Schematic Diagrams ONLY. THE ADVICE AND INPUT OF A PROFESSIONAL, QUALIFIED, GAS TIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.
7 Page3/3	Indicates Cable Junction BUS	nd Signal	230/400V Wire Low Voltage Sensor Wire BUS BUS	Glycol Flow	REV DATE DESCRIPTION Domestic Cold Water	E 29/09/2023 Added aro THERM Plus 400V option				17 Electric Meter 20 System Volumiser	12p Wireless Reciever 16 Rotary Isolator	121 Cylinder Thermostat 12m Outdoor Temperature Sensor	0	10 Magnetic Filter		100	09 Expansion Vessel Service Valve	2 4			02 aroTHERM Plus 03e Secondary Circulation Pump 05 unISTOR DHW Cylinder	🚥 🐼 Vaillant



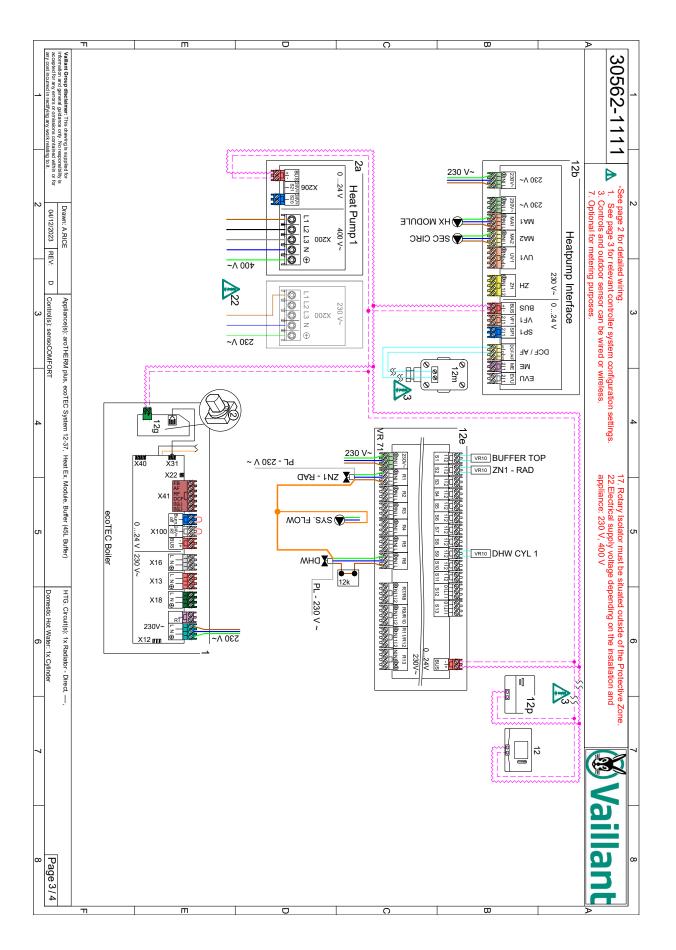
3.10 30131-1011 aroTHERM Mono HEX, 1 x Cylinder, 1 x UFH 3rd Party



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accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.	Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is			Zone activated: Yes Zone assignment: No assignmt		Set-back mode: Eco		Heat curve: **Site specific Min. target flow temperature: 15°	OT switch-off threshold: 30°	Circuit type: Heating	MO 2: Circulation pump	Basic system diagram code: 10	Basic system diagram config.	Back-up boiler: Off	ESCO: Heating off	Alternative point: -20-	Heating bivalence point: -20°		Adapt. heat curve: Deactivated	Installation		Not all settings are displayed commiss		 variants not responsed to any indextuees or ornassons in the internation and wavings provided to it internation which there is when constructing the usignants Any reproduction of the design must have the prime solor of Vallant. During the planning design installation and later is of the system all operating instructions must be followed During the planning design installation and later is of the system all operating instructions must be followed 		30131-1011 SAFE / MC	
29/08/2023	Drawn: A.RICE											 								¥	e e e	ioning	any other ny kind, e I by and c	e of the sv		OTE TH	
REV: D																Cyll. charg. anti-cycl. time:	Anti-legio. time:	Anti-legio. day:	Cylinder:	Domestic hot water	Setting	of the controller should be done diligently:	third parties for any loss or dama xpress or implied about the comp onstrued in accordance with Engli	i the information and drawings pro i of Vaillant. Istem all operating instructions m		AT THE DIAGRAM PROVIL ALLER MUST BE SOUGHT	3
Control(s): VRC 720	Appliance(s): aroTHERM Plus, H															5 min	"User preference	**User preference	Active	water	Volue		ge (including, without limitat eteness, accuracy, reliabilit sh law.	st be followed		DED IS FOR GENERAL	-
~	Heat Ex. Module																				ng unongn onon najaom	noing through each adjusta	ion, damage for loss of business y or suitability of the diagram for a	an Bundansuco uaux sailau		nditions tor Vailia - Information Purpos Esponsible for Insta	4
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Domestic Hot Water: 1x Cylinder	HTG. Circuit(s): 1x UFH(X) - 3rd Party,																				to the property and opening on	to the property and system rec	ectly from your use of or inability to use, this diagram. the diagram is therefore strictly at your own risk.			I EFMS AND CONDITIONS TO YALLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	σ
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		Indicates Cable Junction Indicates No. of cable cores	230/400V Wire Low Voltage Sensor Wire Low Voltage eBUS Low Voltage Demand Signal eBUS + eBUS -	Glycol Return	Domestic Hot Water Heating Flow Heating Return	DATE stic Cold Water	29/08/2023							Rotary Isolator Electric Meter			b Heat Pump Interface		Magnetic Filter				 c DHW Inst Satey Group e Heating / DHW Expansion Vessel g Brine Expansion Vessel d Bypass Valve g Diverter Valve g Diverter Valve h Fill / Drain Valve 		aroTHERM Plus e Secondary Circulation Pump	Vail	
Page 3/3		BUS 3US	BUS -			DESCRIPTION	Added aroTHERM 400V option			D					ensor	0							– ion Vessel	-	, ump	llant	α

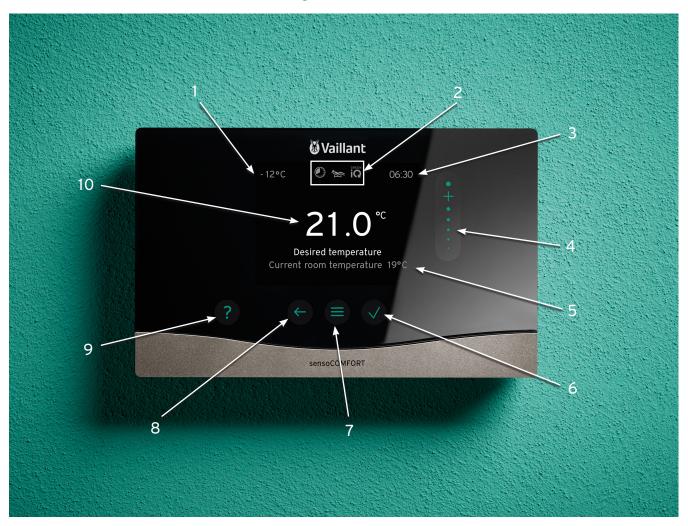


3.11 30562-1111 Hybrid System aroTHERM plus, ecoTEC system boiler, HEX module, Buffer (451)



		REV: D	information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for
	Appliance(s): aroTHERM plus, ecoTEC System 12-37, Heat Ex. Module, Buffer (45L Buffer) HTG. Circuit(s): 1x Radiator - Direct,,	Drawn: A.RICE Appliance(s): aroTHERM plus	
Indicates Cable Junction BUS			
Low Voltage Demand Signal eBUS + eBUS -			
230/400V Wire Low Voltage Sensor Wire Low Voltage eBUS			
Glycol Return			Zone assignment Control
Glycol Flow			Zone activated [.] Yes
Heating Return Cooling Flow			Room temp. mod.: Expanded
Domestic Hot Water			Set-back mode: Normal
REV DATE DESCRIPTION			Max target flow temperature: 15"
04/12/2023			_
_			OT switch-off threshold: 30°
			Circuit type: Heating
			Circuit1
			MO 2. Circulation nump
17 Electric Meter			HP control module configuration
0			FM5 MO: Not working
12I Cylinder Thermostat 12m Outdoor Temperature Sensor			
			Basic system diagram config.
		Cyl. charg. anti-cycl. time: 5 min	Conf. ext. input: Bridge, deactiv.
12 sensoCOMFORT 12b Heat Pump Interface		Cylinder charging offset: 15 K	Back-up boiler: DHW + heat.
_		Anti-legio. time: **User preference	ESCO: HP + BUH Off
10i Flexible Connection 10j Magnetic Filter		Anti-legio. day: **User preference	Hybrid manager: Bivalence pt
		Cylinder: Active	Adapt. heat curve: Deactivated
		nestic hot water	Installation
09r Isolation Valve	•	Setting Value	Setting Value
2	Not all settings are displayed, commissioning of the controller should be done diigently; going through each adjustable option with consideration to the property and system requirements.	ioning of the controller should be done diligently;	Not all settings are displayed, commission
09b Zone Valve 09d Bypass Valve	System Configuration	sensoCOMFORT	
08g Brine Expansion Vessel			
	Vaillant makes no representations or warrantities of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk.	ny kind, express or implied about the completeness, accuracy, relia by and construed in accordance with English law	 Vaillant makes no representations or warranties of any kind, express or implied about the completenes These disclaimers and exclusions shall be governed by and construind in accordance with English law
07h HEX. Module 08a Pressure Relief Valve	In no circumstances shall Vallant be lable to you or any other third parters for any loss or damage (induding, without limitation, damage for loss of business or loss of porfits) arising directly or indirectly from your use of or inability to use, its diagram.	any other third parties for any loss or damage (induding, without lin	
07f 45L/100L Buffer		During the planning, design, installation and later use of the system, all operating instructions must be followed.	
	n n renes when constructing the alagiants.	valiant is not reprovide or any indecendence or ornestors in the morningend nawings provided to it, and upon which it relies when constructing the degrams. Any reproduction of the design must have the prior permission of Valilant.	 valuation is not responsible for any inaccuracies of ornissions in the informa- 4. Any reproduction of the design must have the prior permission of Vallant.
01 Doror 02 aroTHERM plus 03e Secondary Circulation Pump			
	RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.	s installer must be sought. Vaillant is no	1 All applicable laws and regulations must be followed
	I EFINS AND CONDITIONS TOF VAILANT SCHEMATIC PLASES ONLY. THE ADVICE AND INPUT OF A PROFESSIONAL, QUALIFIED, GAS	DTE THAT THE DIAGRAM PROVIDED IS FOR GENE	30562-1111 PLEASE NO

4 sensoCOMFORT VRC 720 easy user guide



- 1. Outdoor temperature
- 2. Current heating mode
- 3. Time
- 4. Navigation bar/increase decrease
- 5. Actual room temperature
- 6. Enter or confirm
- 7. Main menu
- 8. One level back or cancel input
- 9. Help and time programme assistant
- 10. Current target temperature

 \ast These icons represent the current operating protocol of the control.

Anything that lights up green is available to be used with the current screen.

4.1 Quick guide to icons

	- Calling up the menu - Back to the main menu
\bigtriangledown	- Confirming a selection/change - Saving set values
$\langle \!$	- One level back - Cancelling input
+ + • •	 Navigating through the menu structure Reducing or increasing the set value Navigating to individual numbers/letters
?	- Calling up the help - Calling up the time programme assistant
	- Switching on the display* - Switching off the display* The control element is located on the upper side of the control
	Battery state of charge*
	Signal strength*
	Button lock active*
	Time-controlled heating active
Ľ y	Maintenance required
\triangle	Fault in the heating installation
5	Contact the competent person
$\overleftarrow{\mathbb{P}}$	Noise reduction mode active*
	Most energy-efficient heating mode active*

*Not all functions are available for all system combinations.

4.2 Selecting frequent functions

4.2.1 Over-riding the current time and room temperature

The room temperature is increased or decreased by up to 12 hours, e.g. for a party.





Press once



Confirm new temperature



New over-ride setting

Adjust up or down



Adjust over-ride period and confirm

The display will now show the new desired temperature (21.5°C in this case), and what time the over-ride is due to finish (19:26 in this case).

The \leftarrow can be pressed at any time to cancel the over-ride and return to the normal timed requirement.

4.2.2 Switching off the heating

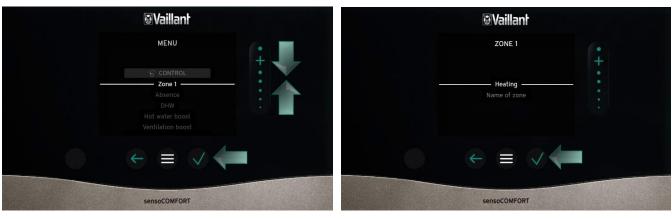
Heating is not required, domestic hot water generation and frost protection remain active, e.g. in the summer.



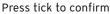


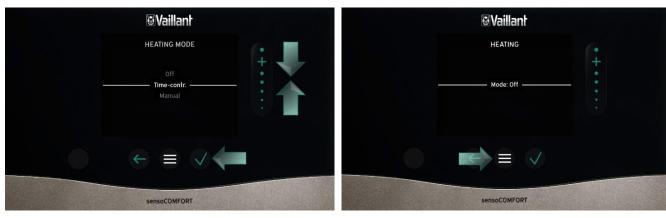
Press twice

select "CONTROL"



Scroll to "Zone #" and press tick to confirm





Select "Off" and press tick to confirm

Heating now "Off" press menu to return

4.2.3 Switching on the heating

The heating is switched on, e.g. in winter.





Press twice



Press tick to confirm

Scroll to "Zone #" and press tick to confirm



Scroll to "Time control" and press tick to confirm



Press menu button to return

Control now timed

4.2.4 Switching on the heating

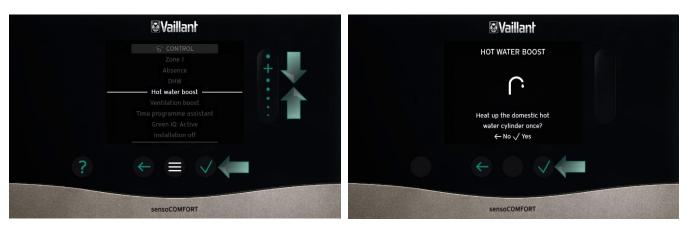
Heat up domestic hot water onve outside of the set time period for domestic hot water generation off if domestic hot water generation is deactivated.





Press menu x 2

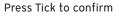
Select "Control"



Scroll to "Hot water boost" and press Tick



Hot water boost active



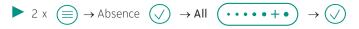
The display will now show that the "Hot water boost" function is active. The cylinder will be heated to the set temperature once.

 \leftarrow can be pressed at any point for the control to return back to normal operation.

4.2.5 Setting up absence periods

Heating and domestic hot water generation are not required, frost protection remains active,

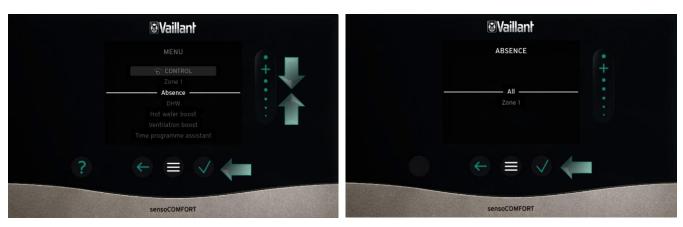
e.g. for holidays or days away.



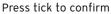


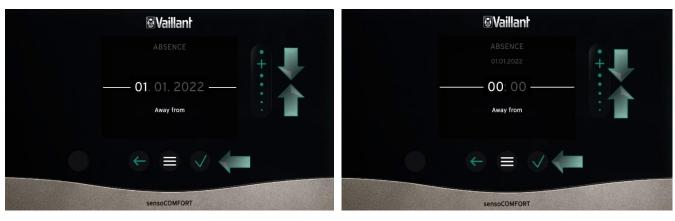
Press menu

Press tick to confirm



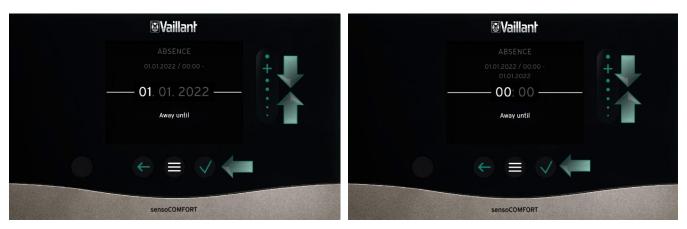
Scroll to "Absence" and press tick





Select Absence date

Select Absence start time



Select a return date

Select a return time



The Absence period is now set

5 VRC 700 control easy user guide

5.1 Basic display and symbols

	E Vaillant	5
	Auto 13,5°C 11:54 20,0°C Desired temperature 21,5°C Menu Mode	
4		\ 1
	3 2 Normal display of VRC 700	

- 1. Diagnostics socket for competent person (with access to Vaillant software)
- 2. Right hand selection button for "Operating mode" (soft key)
- 3. Rotary knob (turn only)
- 4. Left hand selection button for "Menu" (soft key)
- 5. Display

5.1.1 Quick Guide to Icons



Auto mode (heating on)



Auto mode (heating off)

Day He

Heating on constant (at selected temperature)

Off Heating off (Frost protection running)



Outdoor temperature

5.2 Setting frequent functions

5.2.1 Overriding the current room temperature



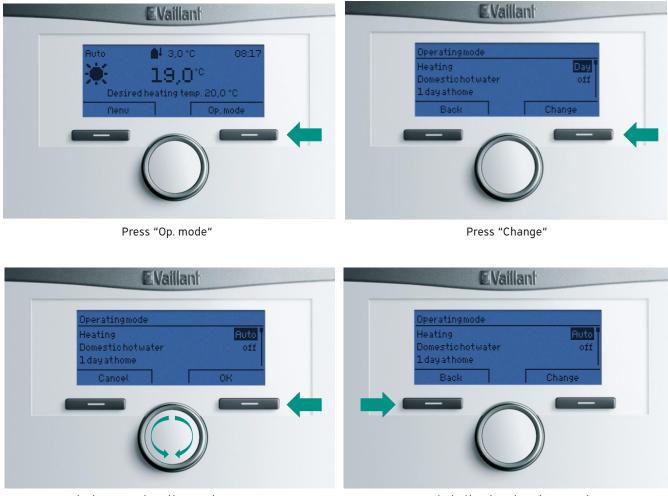
Turn the control knob

Stop when new temperature is reached



Cancel 6-hour override at any time

5.2.2 Switching off the heating



Select new mode setting and press "OK"

Use "Back" button to return to normal screen

5.2.3 Switching On the Heating



Press "Op. mode"

Select Absence start time



Select required setting ("Day" for constant on)



EVaillant



Press "Back" to return

Day \$3,0*C 14:11 19,0*C Desired heating temp. 20,0*C Menu Op. mode

Normal screen shows "Day" now active

5.2.4 Heating up domestic hot water once



Press "Op. mode"

Scroll to "Cylinder boost" and press Activate"



Cylinder boost now active. Press cancel if required at any point.

5.2.5 Setting up absence periods



Press "Menu"



Scroll to start day then "Ok" month "Ok" year "Ok"

EVaillant Daysawayfromhomescheduling Start 01.01.22 End Temperature 15 °C

Press "Change"



Follow the same process for the end date (in this case start 13/3/24 end 17/3/24



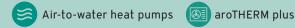
Scroll to temperature and press "Change"

Select required temperature and press "Ok"



Away period now set, use the "Back" button to return

The heating demand temperature will be used for the whole time period. At midnight, the day before the end date, the domestic hot water cylinder will be heated to the set temperature in order to sterilize the volume of water. This only applies to a system or open vent boiler.



Contacts

Sales enquires

Vaillant sells its products through plumbing and heating merchants in the UK. For further information, contact your local Vaillant sales representative. Phone: 0345 602 0262

Training

For information on training centres and courses in your area. Phone: 0345 601 8885 Email: training@vaillant.co.uk

Technical enquiries

If you have a technical query, you can contact us by phone or email. Phone: 0344 693 3133

Email: technical@vaillant.co.uk

Advance support line

There's a Regional Business Manager near you to support your business, along with dedicated Advance support lines. Call us: 0330 678 0878 or Email us: advance-support@vaillant.co.uk

General enquiries

If you are unsure of who you need to speak to or you have a general enquiry, our friendly reception staff will happily point you in the right direction. Phone: 0345 602 2922

System Sales and Design

At Vaillant, our expert System Sales and Design (SSAD) team provides installers with comprehensive heating system design support on their projects. Phone: 0330 123 1767

mail us: systemdesignuk@vaillant.com



Heating **Hot** water



Vaillant Group UK Ltd. Nottingham Road, Belper, Derbyshire DE56 1JT Telephone 0345 602 2922 professional.vaillant.co.uk info@vaillant.co.uk

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