

Why Vaillant?

Because we provide the best solar systems under the sun

auroTHERM Solar Thermal

■ The **TECHNICAL** Brochure

Contents

Why solar thermal?	5
'The Vaillant Experience'	6
auroTHERM solar flat plate collectors	8
auroTHERM exclusive vacuum tube collector	10
auroTHERM installation methods	12
Technical specifications	18
Solar pump and collector dimensions	20
Sizing guide	22
auroSTOR cylinders	46
auroFLOW plus drainback systems	47
Solar controls	48
Schematics and wiring diagrams	50
Service and support	59
Accessories and spare parts	61



Vaillant – always thinking ahead

Vaillant has been setting the standard in the heating market since 1874 by consistently developing products that revolutionise the industry.



A family-owned global company

As a renowned family-owned company, we have pioneered products that have revolutionised the heating industry. Today, our innovative, total solar system solutions with unique features, offer highly efficient, easily installed products, from a single supplier.

Not only does Vaillant look to the future in terms of its products, we also continue to focus on developing better and more productive relationships with you - our customers. That's because we know that the partnerships we establish with specifiers, consultants, engineers, installers and end users, are key to our continued and future success - and the success of our partners' businesses.

Unwavering service

Vaillant knows that the renewable industry's most advanced heating solutions go hand in hand with the industry's most developed and forward thinking service solutions. We pride ourselves on looking after your project from conception to solution including after sales service back-up.

Europe's leading heating technology manufacturer

These combined objectives enable us to deliver the best products and to provide the best service to you. They are the twin driving forces that keep Vaillant out in front as Europe's market leading heating technology manufacturer.

Why solar thermal?



Renewable heating technologies are fast becoming a popular way of providing highly efficient heating and hot water for your home and can help you to reduce your carbon footprint, which can significantly save money on fuel bills.

The basic principles of solar thermal technology are fairly straightforward, but in practice, designing a system that efficiently captures the sun's energy and turns it into hot water requires the full use of Vaillant's advanced technology.

How does solar thermal work?

Solar thermal domestic hot water systems work by collectors on the roof absorbing the radiated energy from the sun. This energy heats the fluid which is pumped around a sealed circuit, through the collectors and into a heat exchanger within

a specially designed hot water cylinder (such as Vaillant's auroSTOR). The hot water is then stored in the cylinder and used as and when required. Depending on the size of the property, installing Vaillant's solar thermal system can provide up 60% of annual domestic hot water requirements, saving you money on energy bills.

auroTHERM solar thermal solutions are also compatible with many alternative conventional hot water systems, meaning that as well as being used in conjunction with a Vaillant ecoTEC boiler, it is also compatible with non-Vaillant boilers, immersion heaters, air source and ground source heat pumps, biomass boilers, wood burners and more, to provide hot water on demand in the colder, less sunny months.

'The Vaillant Experience'



'The Vaillant Experience' demonstrates that we strive to be the best in all we do and that Vaillant has always stood for premium quality.

Industry-leading training designed for industry leading engineers

As a family-owned business, at Vaillant we understand that providing the right expertise, knowledge and qualifications for you - our customers, is the key to growing a successful sustainable business.

With a team of fully qualified industry experts, our training courses have been designed and tailored to keep you one step ahead of the ever-developing world of heating and hot water technologies and industry regulations.

We offer the full package of courses for all levels within the industry; from a full day getting hands-on with our award-winning ecoTEC domestic boiler range to our Solar Appreciation training day - Vaillant have a course for you.

Dedicated state-of-the-art Centres of Excellence

Located in Glasgow, Elland (near Leeds), Belper (near Derby), Cambridge, Maidstone, Farnborough and Bristol, you can rest assured there is a centre never far away from where you are.

We want to make sure you get the very best experience when you partner with Vaillant. That's why our Centres of Excellence have been developed and designed to offer spacious facilities, a comfortable and superbly equipped training environment, with plenty of opportunities for hands-on experience and product familiarisation.

Our team

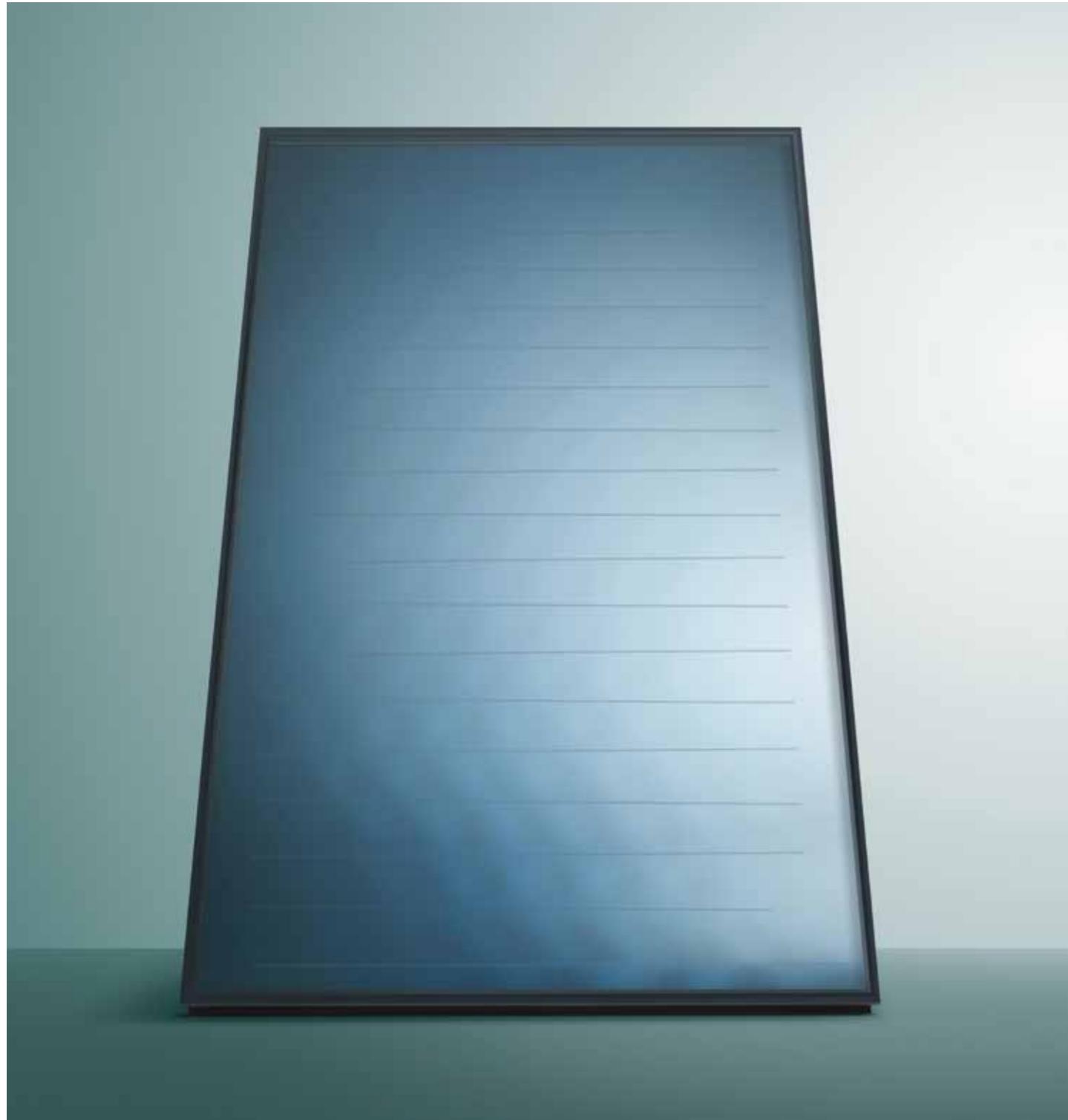
We are proud of our highly qualified, dedicated team of industry-leading trainers with years of experience to share.

What's more, each of our centres has a dedicated team of Customer Experience Managers; there to ensure you receive everything you would expect from Vaillant from the day you book on a course to the moment you receive your certification.

For more information or to visit one of our Centres of Excellence, call **0845 601 8885** or email training@vaillant.co.uk



auroTHERM solar flat plate collectors



Virtually every Vaillant solar domestic hot water system starts with roof-mounted collectors that heat solar liquid. Our collector range encompasses three types of collectors including vacuum tube and flat plate options to cover all installation situations, locations and customer requirements.

High efficiency flat plate collectors

The auroTHERM VFK 145 and auroTHERM plus VFK 155 flat plate collectors have toughened 3.2mm solar glass, and a neat panel design which can be installed to suit the property either on-roof, in-roof or using a flat roof configuration, meaning installation and maintenance of auroTHERM could not more be straightforward.

Features and benefits:

Stylish, high performance flat plate technology

- Frameless design available in both horizontal and vertical collector options
- Black anodised aluminium collector chassis gives best appearance with maximum performance
- Structured solar glass 3.2mm thick with 91% solar transmission (auroTHERM)
- Anti-reflective solar glass 3.2mm with 96% solar transmission (auroTHERM plus)

Flexible siting options

- Can be fitted on-roof, in-roof or on a flat roof (mounting bracket options available to suit various roof tile types)

Push-fit hydraulic connections

- Does not require any special tools and saves time when installing

MCS accredited

- Qualifying for various government initiatives

Highly efficient plate technology

- With 40mm rear insulation and low profile collector being only 80mm thick

High quality you expect from Vaillant

- With aluminium/copper absorber laser welded by robot

Suitable for high operating temperatures

- Enabling maximum energy to be extracted from the sun

Collector weighs 38kg and dimension of 1233mm x 2033mm

- Helping with ease of installation

Supplied as complete solar installation kit

- For ease of ordering
(For full listings please see kit component packs from page 23)

Various intelligent control and cylinder options available

- A total system solution from one manufacturer
(see pages 46-49 for more information)

Collectors are covered by a 10 year guarantee

- Gives you total peace of mind



auroTHERM exclusive vacuum tube collector



The auroTHERM exclusive system achieves greater total solar coverage throughout the year than any other Vaillant solar system, resulting in high performance for a longer period of time.

High efficiency tube collectors

Each collector is delivered pre-assembled with six tubes per collector and is compact and lightweight for ease of installation. Each tube is manufactured using toughened glass that is internally coated with a special high selective absorber, making the auroTHERM exclusive one of the most efficient collectors in its class. What's more, the tubes have the benefit of a 10-year guarantee against loss of vacuum and, if necessary, can be replaced without draining down the solar system – meaning low maintenance all year round.

Features and benefits:

High performance

- Vaillant's highest annual solar yield per square metre

Small and lightweight design

- For ease of installation

Aesthetically pleasing

- Multiple collectors can be connected in series using black anodised roof brackets that provide a neat and visually attractive finish

Fully assembled

- Reducing installation time

Compound Parabolic Concentrator (CPC)

- Each tube has an external CPC to ensure that solar radiation is efficiently directed toward the centre of each tube. The CPC has a ceramic coating to limit the build-up of dirt

Up to six collectors can be connected in a series

- Giving larger outputs to suit most domestic properties (larger arrays are available but require careful planning. Details available upon request)

Vertical collector available for on-roof and flat roof installations with mounting bracket options

- Giving you mounting options to suit various roof tile types

MCS accredited

- Qualifies for various government initiatives

Tubes guaranteed for 10 years against loss of vacuum

- Gives you total peace of mind

Double width panels available.

- For further information, please contact your local area representative



auroTHERM Installation methods



The newly designed and standardised Vaillant roofing systems, for all new auroTHERM vacuum tube and flat plate solar collectors, make the installation of our solar systems faster, easier and safer.

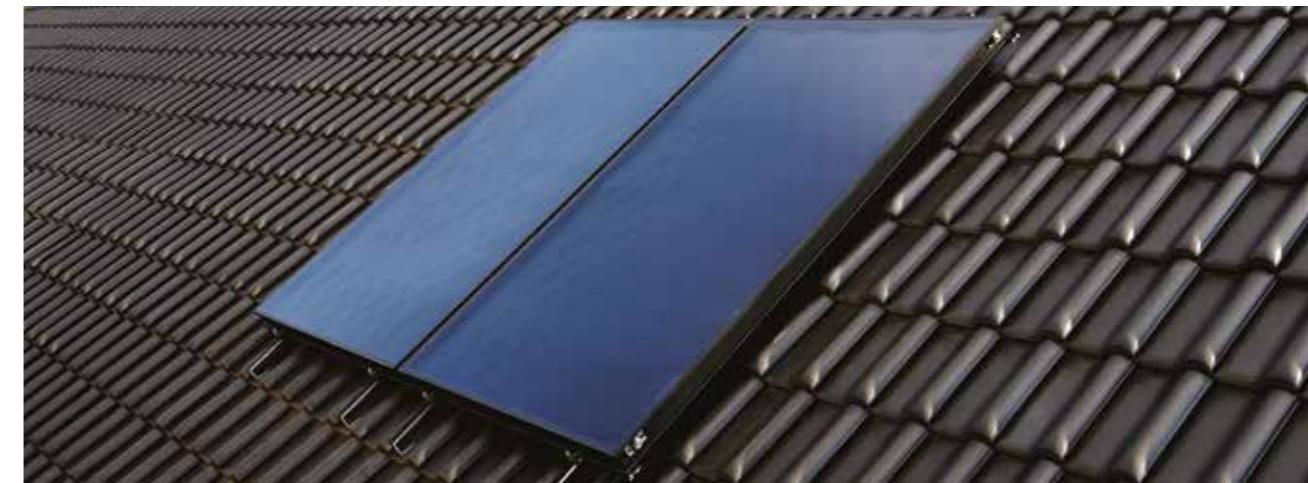
You'll only require one tool to fix all brackets. There are no small parts on the roof and, most importantly, there's just one single attachment element for the collector rail and the collector. Roof retainers for the mounting system can be fixed to the roof rafters or suitable roof battens, which reduces the time needed for design and the amount of time required on site. We even have an innovative mounting system for in-roof installations of our flat plate collectors.

Our A-frame option enables quick installation on flat roofs. There are no special tools required to assemble collector A-frames on flat roofs. The rear supporting rail is simply slid open and clicked into the relevant location to achieve the required angle.

The Vaillant solar roofing system at a glance:

- Standardised on-roof and flat roof installation systems for Vaillant vacuum tube and flat plate collectors
- Innovative in-roof mounting system for Vaillant flat plate collectors
- Quick assembly time
- Flexible mounting options for collectors – side by side or above each other
- Black anodised roof brackets

auroTHERM and auroTHERM Plus on-roof installation



On-roof installation - this means that the collectors are installed above the roof tiles on special roof brackets, which are fixed to the rafters.

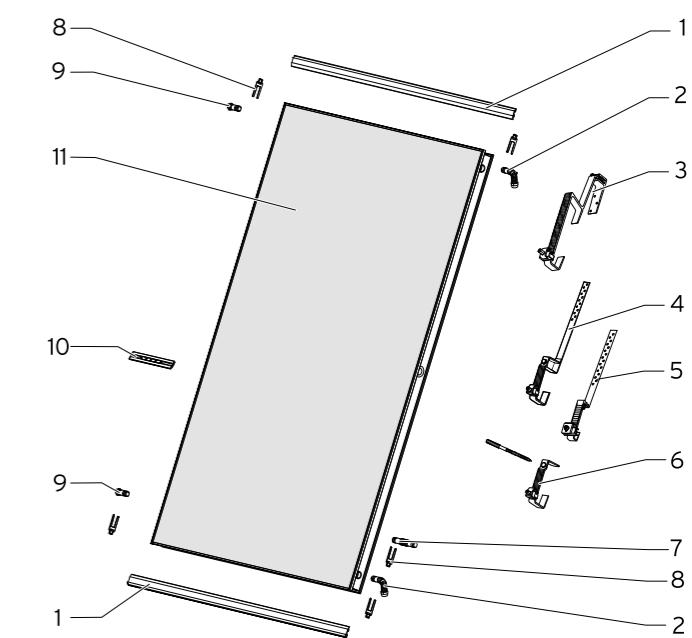
Benefits of on-roof installation include:

- Quick and easy installation
- Reduced disturbance to existing roof tiles
- Low cost installation

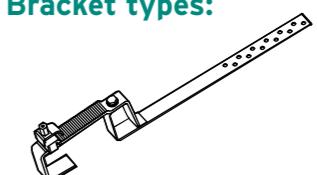
For on-roof installations, all components are provided within the kit, making them simple and quick to install.

On-roof components:

1. Mounting rails
2. Hydraulic connections
3. Roof bracket type P (for profiled pantile sets) (standard set)
4. Roof bracket type S (for slate/plain tile sets, etc.) (optional bracket for use with wider selection of tiles)
5. Roof bracket type S flat (for slate/plain tile sets, etc.) (standard set)
6. Hanger bolt fastening set
7. Hydraulic connections (for additional collectors)
8. Retaining clip
9. Plug
10. Rail connector
11. Flat plate collector

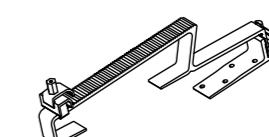


Bracket types:



Type - S

Supplied with sets for slate OR plain tiles
Roof bracket set type S flat, black anodised, low profile.



Type - P

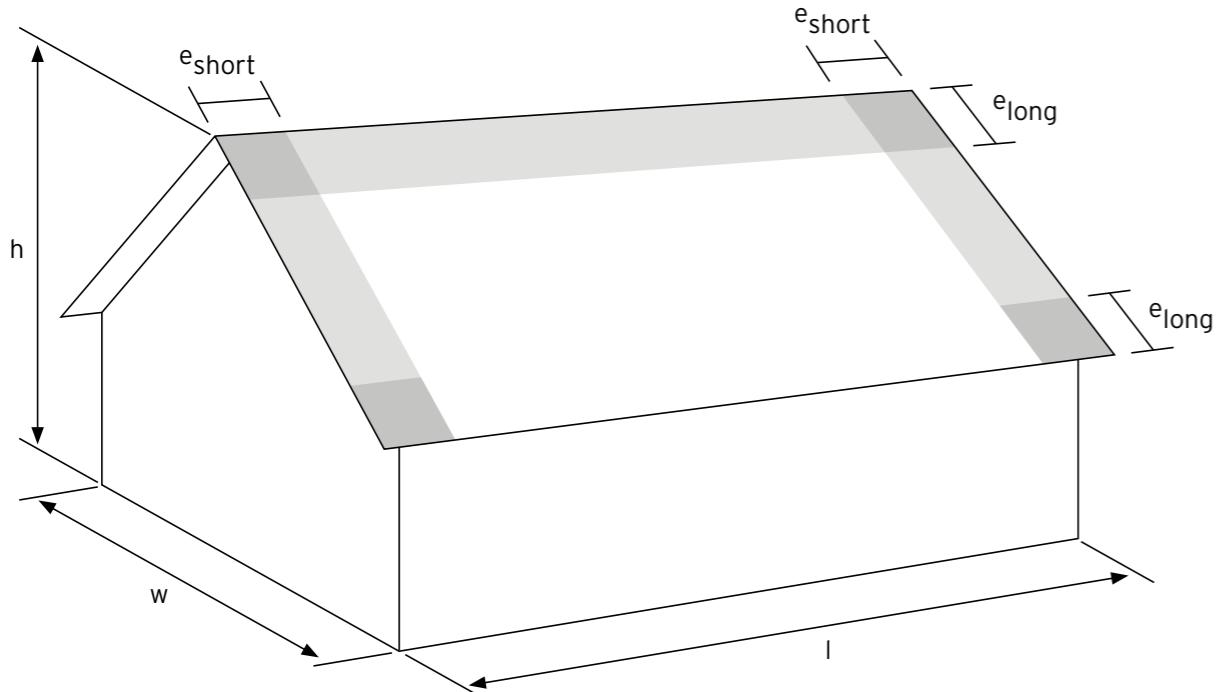
Supplied with sets for profiled pantiles
These sit in the tile valley. Roof bracket set, type P black anodised.

Defining the edge clearances

Maximum lift points caused by wind loads can occur at the cut-away edges of wall and roof areas (e.g. verge and eaves). These maximum lift points result in high loads on the collectors and installation systems.

Areas in which lift points occur are called edge areas. Corner areas are zones in which edge areas overlap and especially high pull forces occur.

Edge and corner areas must not be used as installation areas.

**Key:**

- w. Building width
- h. Building height
- l. Building length

Calculate the building width w, building height h and building length l.

The values for the edge clearances to be observed, e_{short} and e_{long} can be found in the following tables.

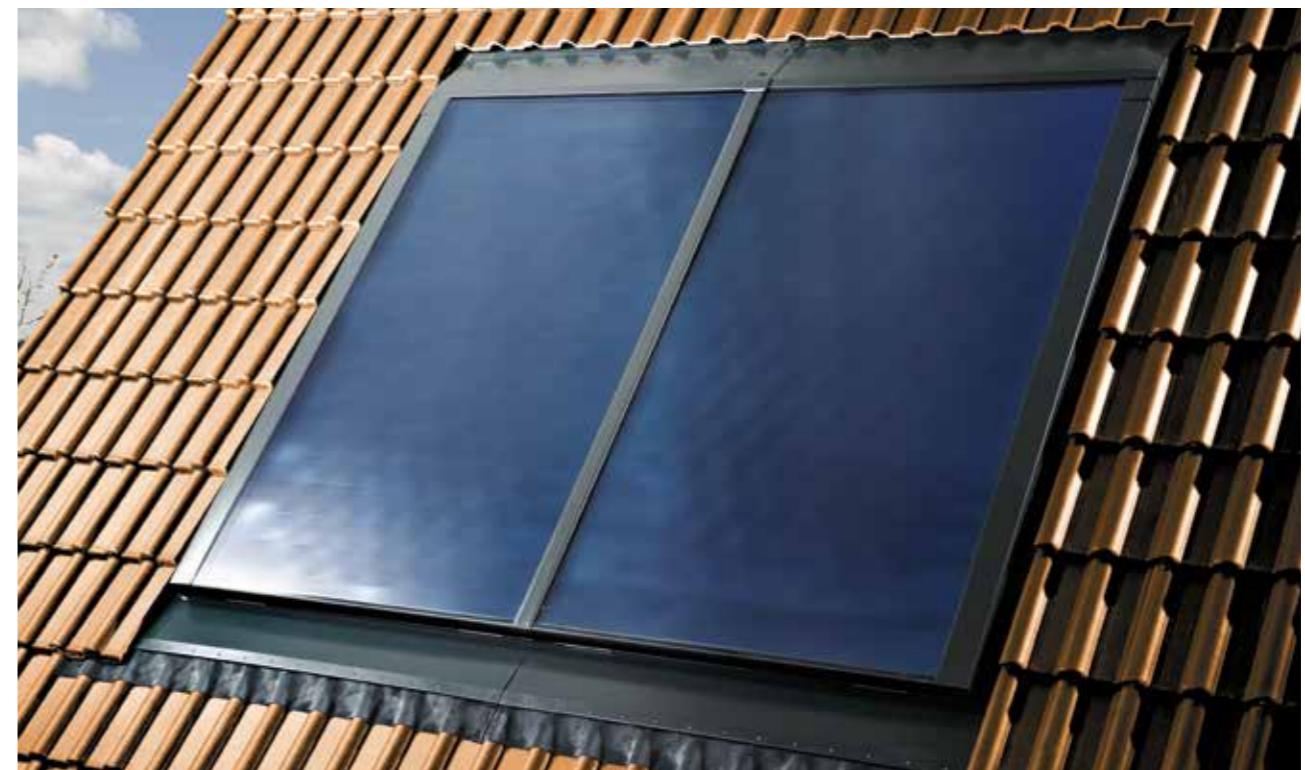
Building width w (m)	Building height h (m)										
	5	6	7	8	9	10	11	12	13	14	15
8						1.0					
9						1.0					
10						1.0					
11	1.0					1.1					
12	1.0					1.2					
13	1.0	1.2				1.3					
14	1.0	1.2				1.4					
15	1.0	1.2	1.4			1.5					
16	1.0	1.2	1.4			1.6					
17	1.0	1.2	1.4	1.6		1.7					
18	1.0	1.2	1.4	1.6		1.8					

Edge clearances: e_{short} (m)

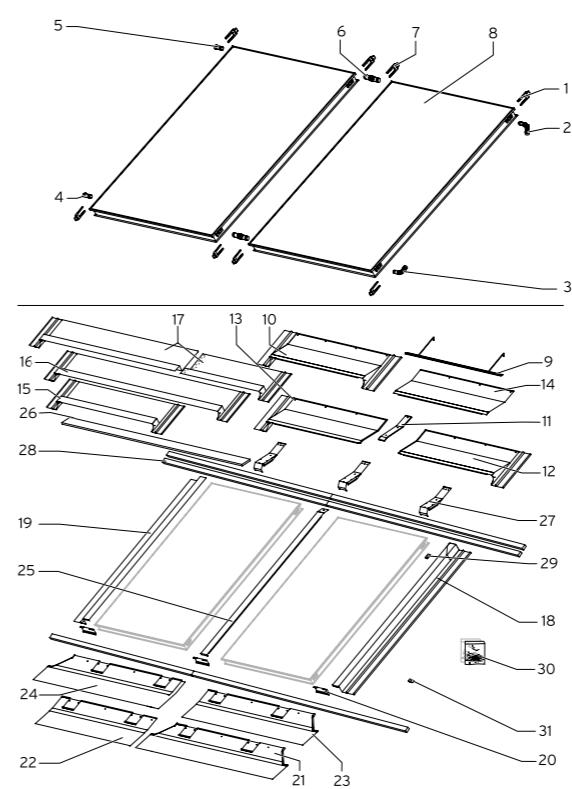
Building length l (m)	Building height h (m)										
	5	6	7	8	9	10	11	12	13	14	15
10						1.0					
11	1.0					1.1					
12	1.0					1.2					
13	1.0	1.2				1.3					
14	1.0	1.2				1.4					
15	1.0	1.2	1.4			1.5					
16	1.0	1.2	1.4			1.6					
17	1.0	1.2	1.4	1.6		1.7					
18	1.0	1.2	1.4	1.6		1.8					
19	1.0	1.2	1.4	1.6	1.8		1.9				
20	1.0	1.2	1.4	1.6	1.8		2.0				

Edge clearances: e_{long} (m)

auroTHERM and auroTHERM Plus in-roof installation



In-roof installation - this type of installation is for flat plate collectors only. The collectors are installed directly onto the roof battens instead of the roof tiles.



auroTHERM components

Benefits of in-roof installation include:

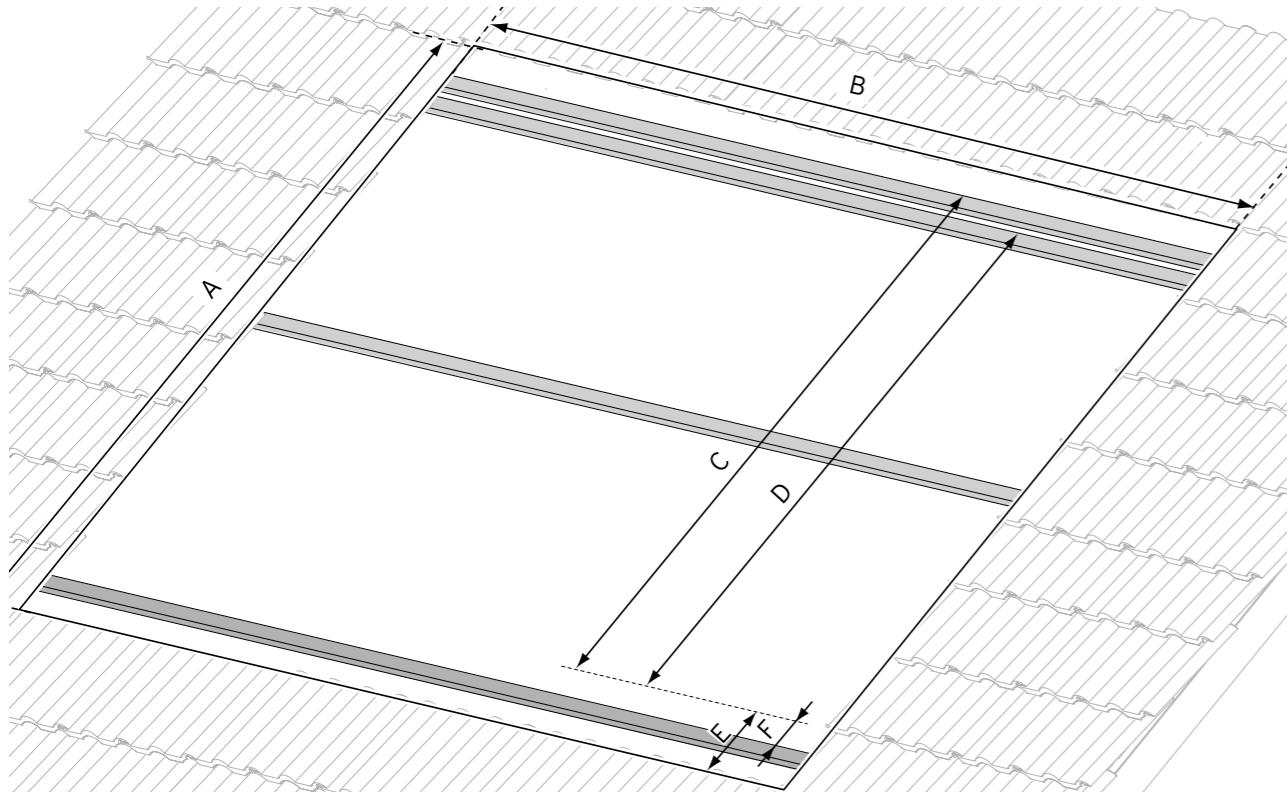
- Aesthetically pleasing
- Slightly lower heat loss

For in-roof installations, all components are provided within the kit, making them simple and quick to install.

Key:

- | | |
|------------------------------------------------------|-----------------------------------------------|
| 1. Retaining clip | 17. Ridge plate 3 collector roof angle 15-22° |
| 2. Hydraulic connection | 18. Right side section |
| 3. Hydraulic connection | 19. Left side section |
| 4. Plug | 20. Profile end |
| 5. Plug (with air vent) | 21. Front section 1 collector |
| 6. Hydraulic connections (for additional collectors) | 22. Central front section |
| 7. Retaining clip | 23. Right front section |
| 8. Flat plate collector | 24. Left front section |
| 9. Tile bar | 25. Intermediate plate |
| 10. Ridge plate | 26. Support board |
| 11. Upper ridge plate coupling | 27. Lower ridge plate coupling |
| 12. Right ridge plate | 28. Roof batten |
| 13. Left ridge plate | 29. Inner clamp |
| 14. Ridge plate extension | 30. Bolt kits |
| 15. Ridge plate 1 collector roof angle 15-22° | 31. External clamp |
| 16. Ridge plate 2 collector roof angle 15-22° | |

auroTHERM and auroTHERM Plus in-roof installation dimension calculator



	A	B	C	D	E	F
Vertical collector position (mm)	2725	1 panel = 2073 2 panel = 3336 3 panel = 4599 4 panel = 5862 5 panel = 7125 6 panel = 8338	2291	2191	309 (min. 280)	150

Please note: In-roof mounting system not available for auroTHERM exclusive vacuum tube collectors.

auroTHERM classic flat roof installation

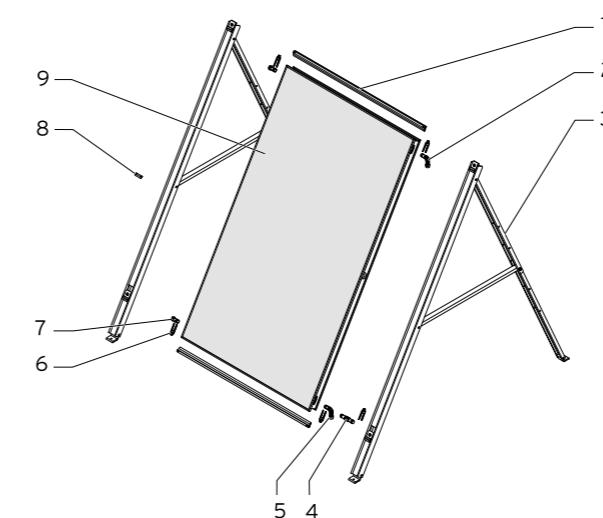


For flat roofs, the most common way of fixing the A-frame to a flat roof is by direct mounting. This method secures the A-frame to the roof using bolts which pass through the roof fabric into the structure below.

However, other mounting options are available such as load plates. These plates and the required loads have been designed in line with EN regulations. Further details are available upon request.

Note: For multiple arrays, shading needs to be considered. For help and advice on installation, contact our technical team on **0844 693 3133** or your local sales representative.

Please note: auroTHERM exclusive vacuum tube collectors use the same mounting brackets and method for flat-roof mounting. Details available in the installation manual.



Key:

1. Rail mounting set
2. Hydraulic connections
3. Frame set
4. Hydraulic connections (for additional collectors)
5. Hydraulic connections
6. Retaining clip
7. Plug
8. Rail connector
9. auroTHERM flat plate collector

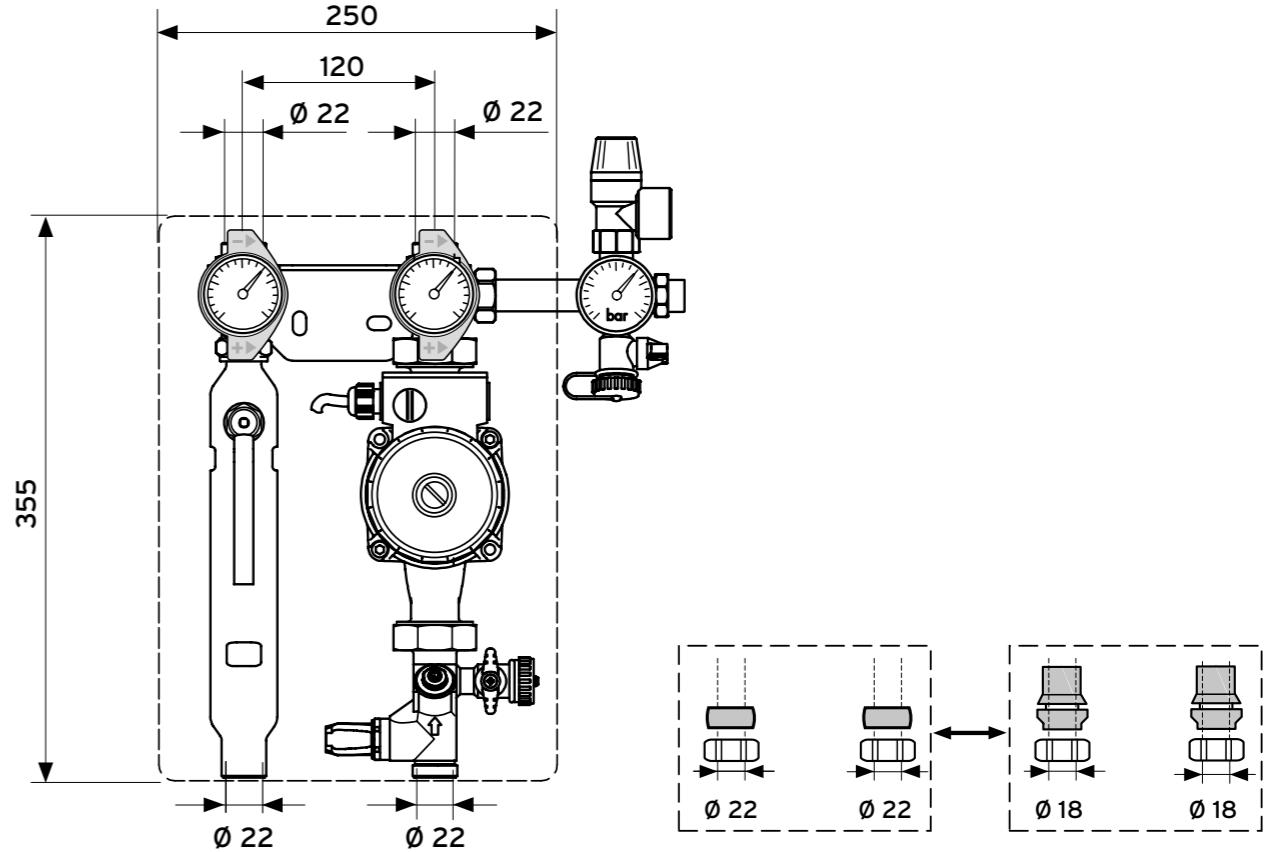
Technical specifications

auroTHERM technical data table

	auroTHERM collectors	auroTHERM exclusive	auroTHERM plus	auroTHERM
Area gross	VTK 570	VTK 1140	VFK 155 H	VFK 145 H
Area net - aperture (H1)	m ²	1.16	2.3	2.5
Absorber content	l	0.9	1.8	2.16
Connection, flat sealing	DN	16 16 (G3/4")		
Insulation vacuum/rock wool	mm	Tubes vacuum / 50 header	40	
Operation pressure max.	Bar	10		
Solar anti-reflex/security glass transmission t	%	95	96	91
Absorber absorption a	%	93.5	95	
Absorber-emission e	%	6	5	
Absorber material		Stainless steel / glass	Copper / aluminum	
Stagnation temperature EN 12975-2, c < 1 m/s	°C	272	196	200
coefficient _Ø EN 12975 (H2)	%	64.2	82.7	83.2
Efficiency coefficient k1 (H3)	W/m ² K	0.885	3.297	3.288
Efficiency coefficient k2	W/m ² /K ²	0.001	0.017	0.018
Collector dimensions				
Height	mm	1650	1233	2033
Width	mm	700	1390	2033
Depth	mm	110	80	1233
Weight	kg	19	38	38
MCS certificate number		MCS BBA 0134	MCS BBA 0134	MCS BBA 0134

Solar pump dimensions

Solar pump technical data table

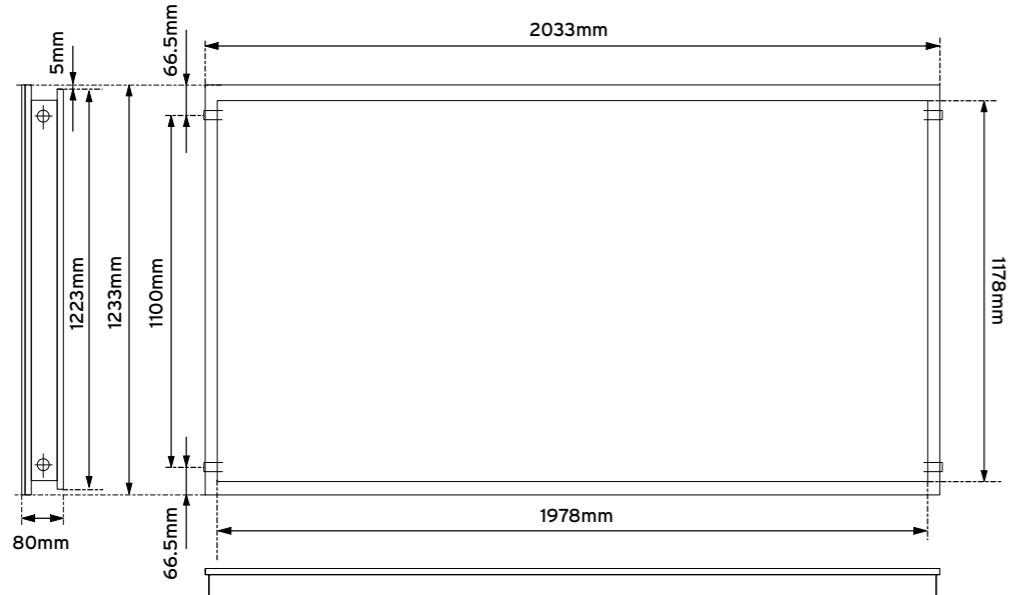


Pump station technical data

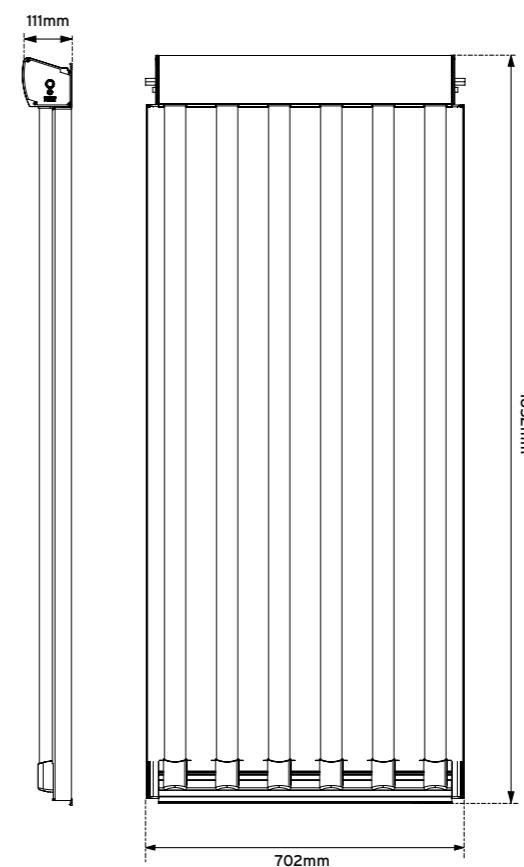
	Unit	Value
Solar pump unit		61min
Dimensions (WxHxD)	mm	250 x 355 x 190
Pipe diameter	mm	22
Pipe clearance	mm	120
Expansion relief valve	bar	6
Weight	kg	8,0
Type of installation		Wall-mounted
Pump		
Nominal speed	rpm	2500
Rated voltage	V, Hz	~230, 50
Maximum current consumption	A	0,36
Type of protection		IP44
Protection class	II	0,58

Collector dimensions

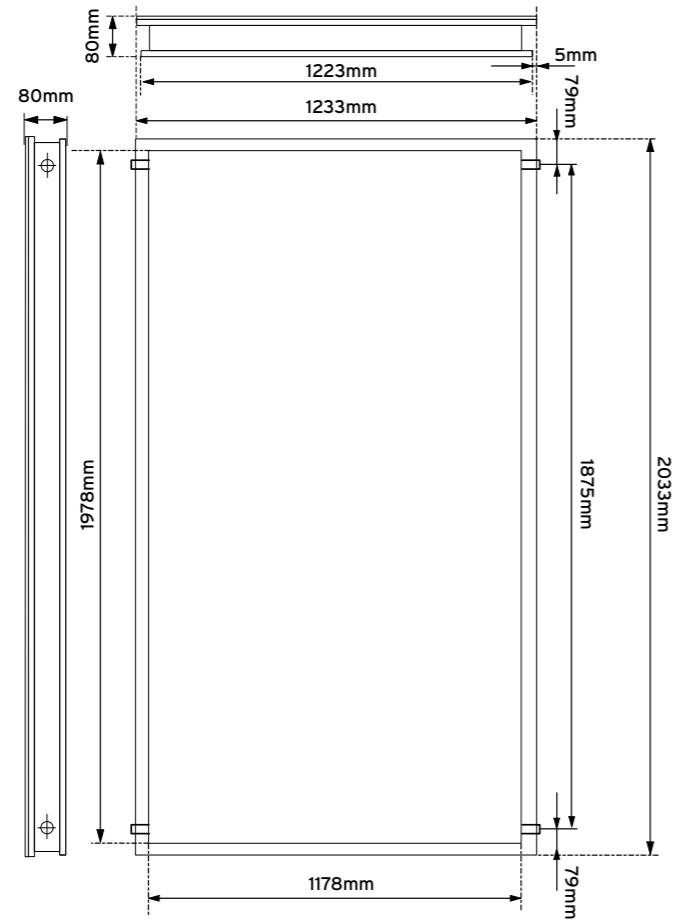
VFK 145/155 Horizontal Collector



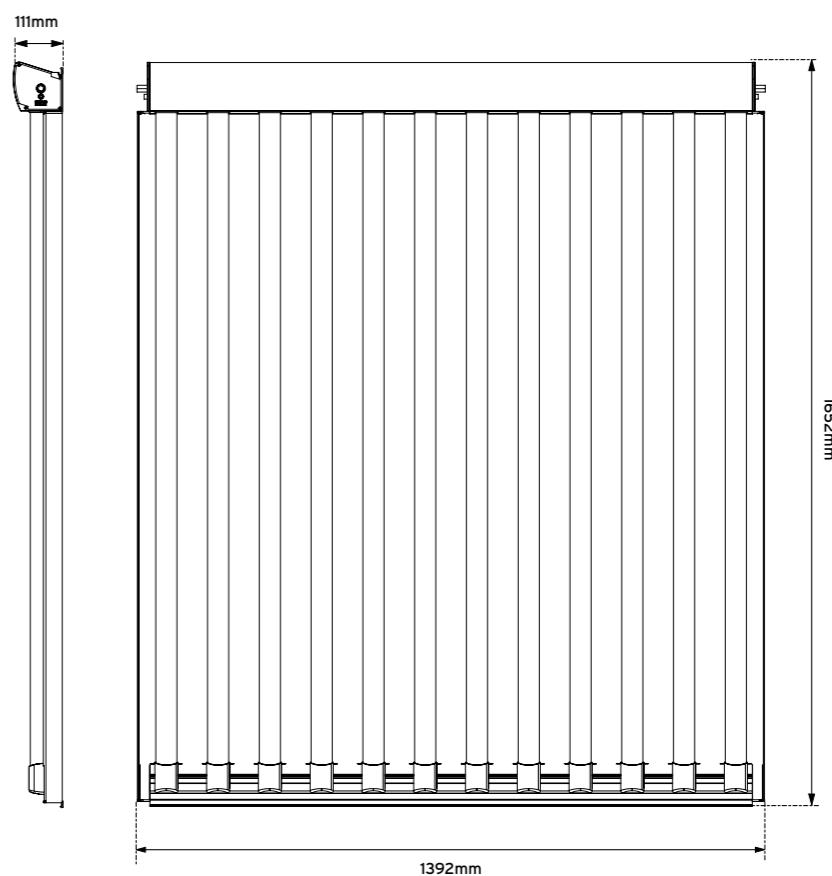
VTK 570



VFK 145/155 Vertical Collector



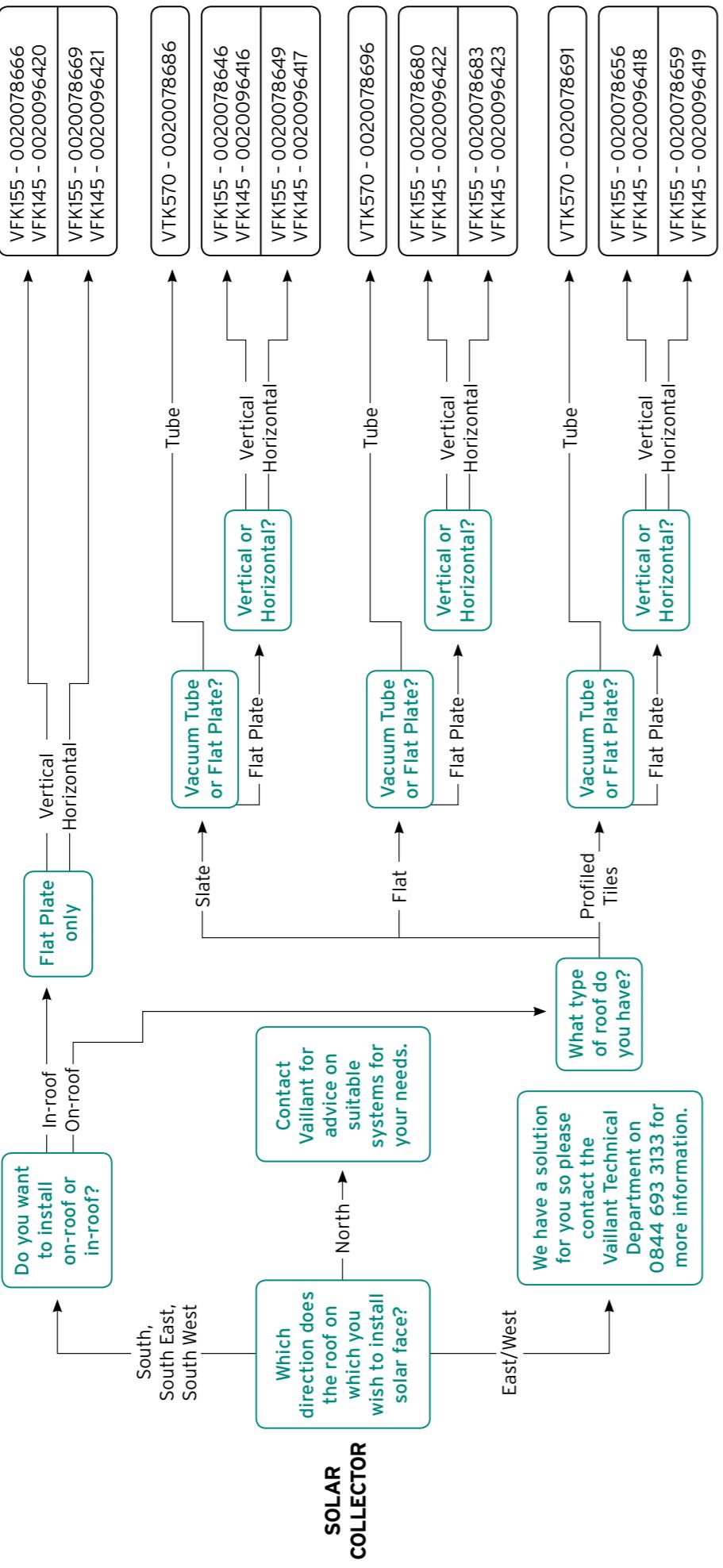
VTK 1140



Sizing guide - 1 resident

This guide will assist you in selecting the correct Vaillant solar system for you. Simply start by navigating to the tab that reflects how many potential people are resident in your home and we can help size the system accordingly. Then follow the simple-to-use flow chart, which will take you to the solar set you require.

Please note, this guide is meant as an indication on size of system only.



Please remember your solar fluid, solar cylinder and controls

Solar Fluid (10L)	Article number 302363	autoMATIC 560 intelligent solar control
Solar Fluid (20L)	Article number 302498	Solar DHW with weather compensated heating 1 zone
auroSTOR 210 litres	Article number 0010010906	Solar DHW with weather compensated heating 2 zone

Load plate options are available for flat roof installations – please consult the manual or contact our technical team on 0844 693 3133 or contact your local area sales representative.

Kit components - 1 resident

auroTHERM exclusive VTK 570 Estimated solar fluid volume for these systems is 28 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector, and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	VTK570 Slate/Plain Tiles 0020078686	VTK570 Profiled Tiles 0020078691	VTK570 Flat Roof 0020078696
Connection set VTK, basic module	1	1	1
Mounting rail set VTK 570	2	2	2
Roof bracket set, black anodised	2	2	2
Aluminium A-frames			3
Solar expansion and protection vessel	1	1	1
Single insulated tube, DN16, length 15m	1	1	1
Fittings pack for DN16 tube	1	1	1
Thermostatic mixing valve	1	1	1
Solar pump unit	1	1	1
Automatic air separator	1	1	1

Kit components - 1 resident

auroTHERM plus VFK 155	VFK155V Slate/Plain Tiles	VFK155V Profiled Tiles	VFK155V In-roof	VFK155V Flat Roof	VFK155H Slate/Plain Tiles	VFK155H Profiled Tiles	VFK155H In-roof	VFK155H Flat Roof
Estimated solar fluid volume for these systems is 29 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078646	0020078656	0020078666	0020078680	0020078649	0020078659	0020078669	0020078683
auroTHERM plus VFK 155V	1	1	1	1	1	1	1	1
auroTHERM plus VFK 155H								
Hydr. connection-set, collector string VFK	1	1	1	1	1	1	1	1
Hydr. connection-set in-roof		1				1		
Anodised stainless steel roof bracket	1	1			1			
In-roof mounting set		1				1		
Mounting bar set	1	1	1	1	1	1	1	1
A-frame			2				2	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 1 resident

auroTHERM VFK 145	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
Estimated solar fluid volume for these systems is 29 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020096416	0020096418	0020096420	0020096422	0020096417	0020096419	0020096421	0020096423
auroTHERM VFK 145V	1	1	1	1	1	1	1	1
auroTHERM VFK 145H								
Hydr. connection-set, collector string VFK	1	1			1	1	1	1
Hydr. connection-set in-roof			1				1	
Anodised stainless steel roof bracket	1	1			1	1		
In-roof mounting set			1				1	
Mounting bar set	1	1			1	1	1	1
A-frame				2			2	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

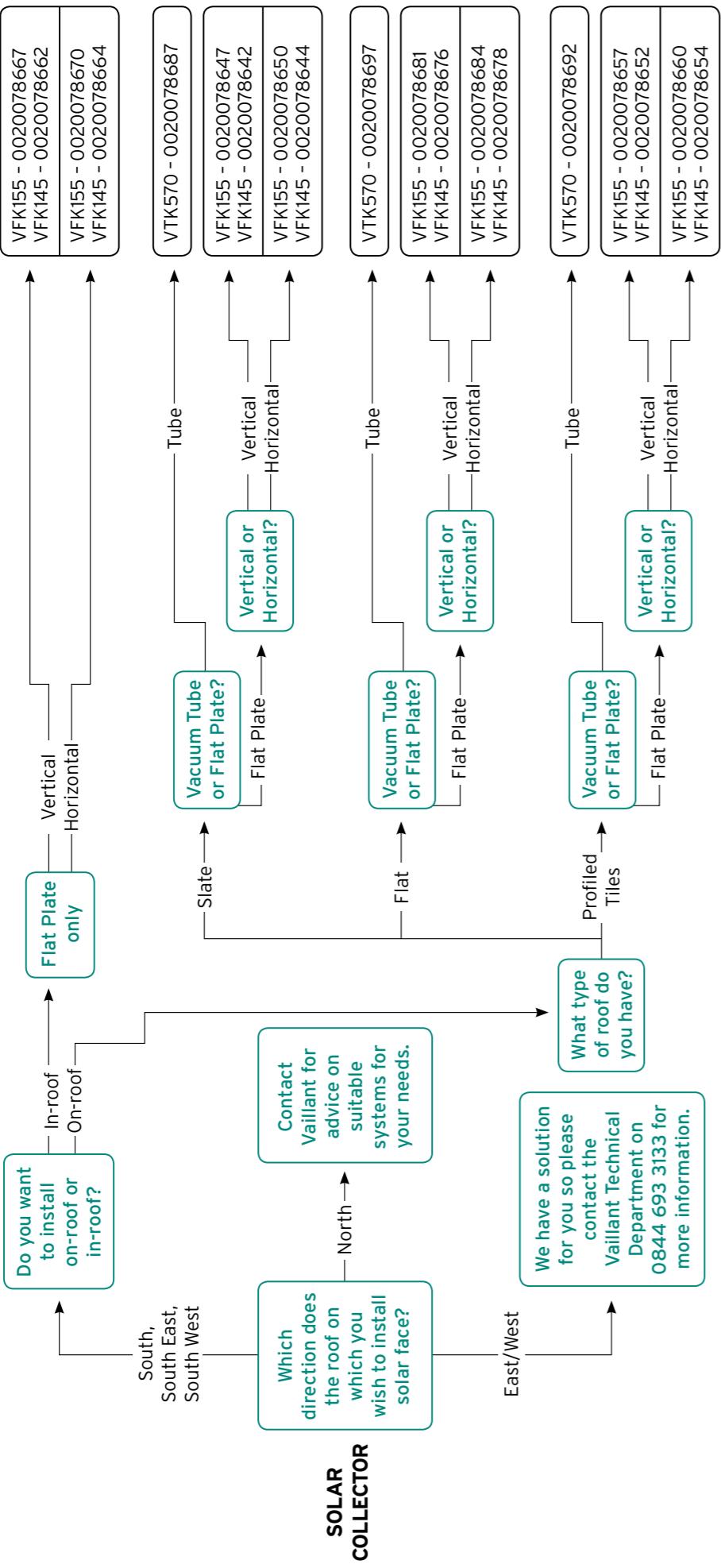
Kit components - 2 residents

auroTHERM plus VFK 15V	VFK155V Slate/Plain Tiles	VFK155V Profiled Tiles	VFK155V In-roof	VFK155V Flat Roof	VFK155H Slate/Plain Tiles	VFK155H Profiled Tiles	VFK155H In-roof	VFK155H Flat Roof
	0020078646	0020078656	0020078666	0020078680	0020078649	0020078659	0020078669	0020078683
auroTHERM plus VFK 155V	1	1	1	1				
auroTHERM plus VFK 155H					1	1	1	1
Hydr. connection-set; collector string VFK	1		1	1	1		1	
Hydr. connection-set in-roof		1				1		
Anodised stainless steel roof bracket	1			1	1			
In-roof mounting set		1				1		
Mounting bar set	1	1		1	1		1	
A-frame			2				2	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 2 residents

auroTHERM VFK 145	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
	0020096416	0020096418	0020096420	0020096422	0020096417	0020096419	0020096421	0020096423
auroTHERM VFK 145V	1	1	1	1				
auroTHERM VFK 145H					1	1	1	1
Hydr. connection-set; collector string VFK	1			1	1	1	1	1
Hydr. connection-set in-roof			1				1	
Anodised stainless steel roof bracket	1			1	1	1		
In-roof mounting set			1			1	1	
Mounting bar set	1	1		1	1	1	1	
A-frame				2			2	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Sizing guide - 3 residents



Please remember your solar fluid, solar cylinder and controls

Solar Fluid (10L)
Solar Fluid (20L)
auroSTOR 260 litres

Article number 302363
Article number 302498
Article number 0010010907

Article number 306764
Article number 0020145323
Article number 0020145324

Load plate options are available for flat roof installations - please consult the manual or contact our technical team on 0844 693 3133 or contact your local area sales representative.

Kit components - 3 residents

Item	Description	Quantity
auroTHERM exclusive VTK 570	VTK570 Slate/Plain Tiles	3
	VTK570 Profiled Tiles	3
	VTK570 Flat Roof	3
Connection set VTK, basic module	1	1
Connection set VTK, extension module	2	2
Mounting rail set VTK 570	3	3
Roof bracket set, black anodised	3	3
Aluminium A-frames		4
Solar expansion and protection vessel	1	1
Insulated tube, DN16, length 15m	1	1
Fittings pack for DN16 tube	1	1
Thermostatic mixing valve	1	1
Solar pump unit	1	1
Automatic air separator	1	1

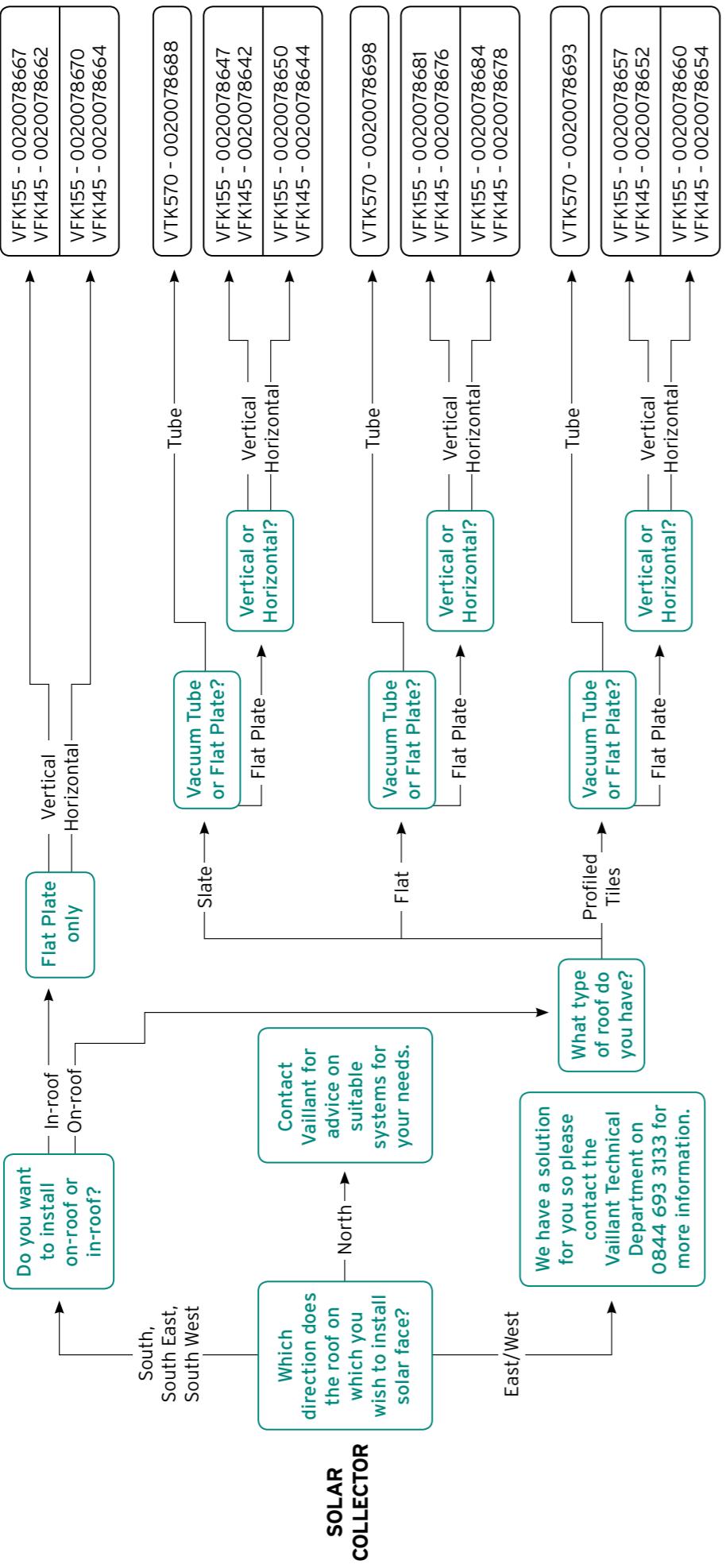
Kit components - 3 residents

auroTHERM plus VFK 155 Estimated solar fluid volume for these systems is 31 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	VFK155V Slate/ Plain Tiles	VFK155V Profiled Tiles	VFK155V In-roof	VFK155V Flat Roof	VFK155H Slate/ Plain Tiles	VFK155H Profiled Tiles	VFK155H In-roof	VFK155H Flat Roof
0020078647	0020078657	0020078667	0020078681	0020078650	0020078660	0020078670	0020078684	
auroTHERM plus VFK 155V	2	2	2	2	2	2	2	2
auroTHERM plus VFK 155H				2	2	2	2	2
Hydr. connection-set, collector string VFK	1		1	1	1			1
Hydr. extension-set, VFK side-by-side	1	1	1	1	1	1	1	1
Hydr. connection-set in-roof		1				1		
Anodised stainless steel roof bracket	2	2						
2 panel in-roof mounting set			1			1		
Mounting bar set	2	2	2	2	2	2	2	2
A-frame set				3				3
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 3 residents

auroTHERM VFK 145 Estimated solar fluid volume for these systems is 31 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
0020078642	0020078652	0020078662	0020078676	0020078644	0020078654	0020078664	0020078678	
auroTHERM VFK 145V	2	2	2	2				
auroTHERM VFK 145H					2	2	2	2
Hydr. connection-set, collector string VFK	1		1	1	1	1		1
Hydr. extension-set, VFK side-by-side	1	1	1	1	1	1	1	1
Hydr. connection-set in-roof			1			1		
Anodised stainless steel roof bracket	2	2			2	2		
2 panel in-roof mounting set				1			1	
Mounting bar set	2	2		2	2	2	2	2
A-frame set				3				3
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Sizing guide - 4 residents



Please remember your solar fluid, solar cylinder and controls

Solar Fluid (10L) Article number 302363

Solar Fluid (20L) Article number 302498

auroSTOR 260 litres Article number 0010010907

autoMATIC 560 intelligent solar control

Solar DHW with weather compensated heating 1 zone

Solar DHW with weather compensated heating 2 zone

Article number 306764

Article number 0020145323

Article number 0020145324

Kit components - 4 residents

auroTHERM exclusive VTK 570	VTK570 Slate/Plain Tiles	VTK570 Profiled Tiles	VTK570 Flat Roof
	Estimated solar fluid volume for these systems is 36 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078688	0020078693
auroTHERM exclusive VTK 570	4	4	4
Connection set VTK, basic module	1	1	1
Connection set VTK, extension module	3	3	3
Mounting rail set VTK 570	4	4	4
Roof bracket set, black anodised	4	4	4
Aluminium A-frames			5
Solar expansion and protection vessel	1	1	1
Insulated tube, DN16, length 15m	1	1	1
Fittings pack for DN16 tube	1	1	1
Thermostatic mixing valve	1	1	1
Solar pump unit	1	1	1
Automatic air separator	1	1	1

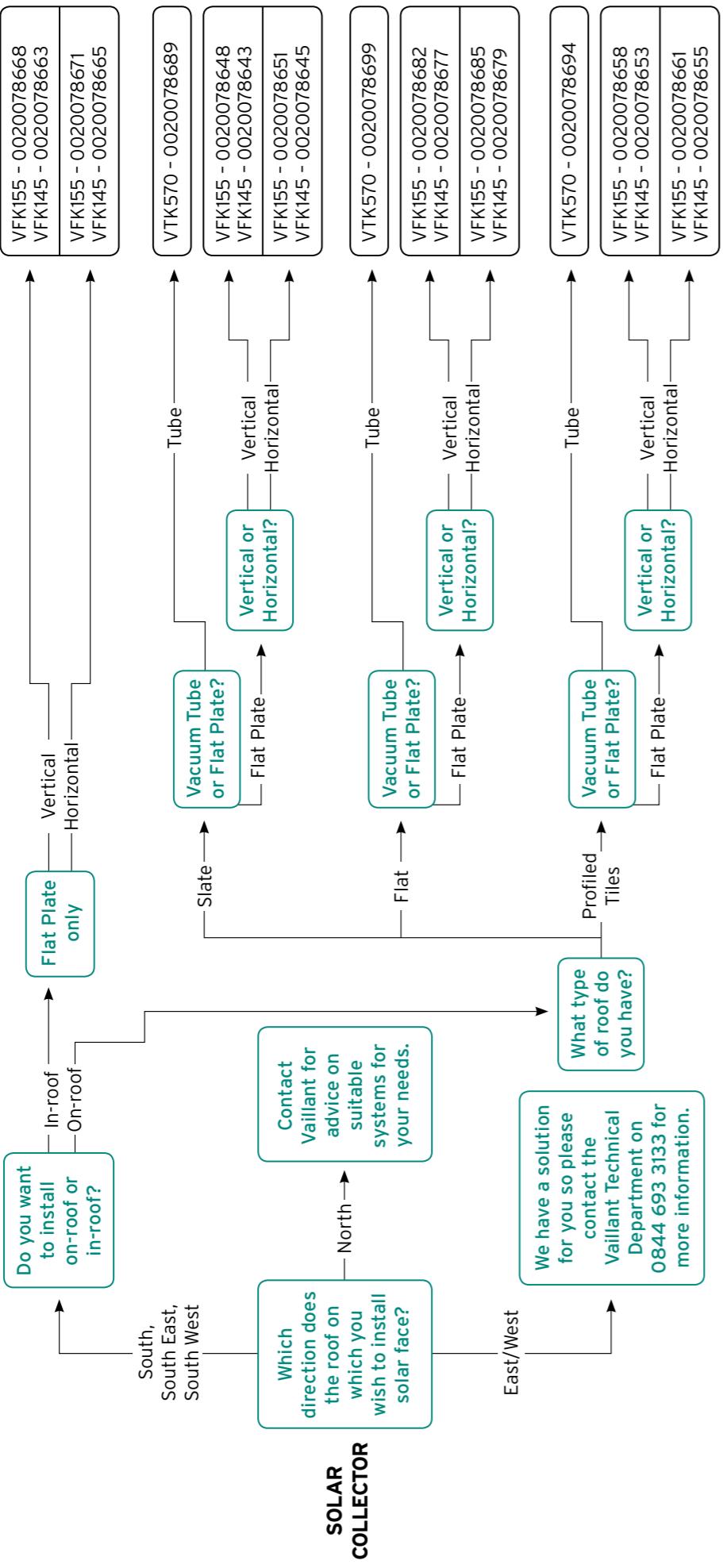
Kit components - 4 residents

auroTHERM plus VFK 155	VFK155V Slate/Plain Tiles	VFK155V Profiled Tiles	VFK155V In-roof	VFK155V Flat Roof	VFK155H Slate/Plain Tiles	VFK155H Profiled Tiles	VFK155H In-roof	VFK155H Flat Roof
Estimated solar fluid volume for these systems is 31 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078647	0020078657	0020078667	0020078681	0020078650	0020078660	0020078670	0020078684
auroTHERM plus VFK 155V	2	2	2	2	2	2	2	2
auroTHERM plus VFK 155H					2	2	2	2
Hydr. connection-set, collector string VFK	1	1	1	1	1	1	1	1
Hydr. extension-set, VFK side-by-side	1	1	1	1	1	1	1	1
Hydr. connection-set in-roof		1				1		
Anodised stainless steel roof bracket	2	2			2	2		
2 panel in-roof mounting set		1				1		
Mounting bar set	2	2	2	2	2	2	2	2
A-frame set			3				3	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 4 residents

auroTHERM VFK 145	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
Estimated solar fluid volume for these systems is 31 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078642	0020078652	0020078662	0020078676	0020078644	0020078654	0020078664	0020078678
auroTHERM VFK 145V	2	2	2	2	2			
auroTHERM VFK 145H					2	2	2	2
Hydr. connection-set, collector string VFK	1	1			1	1	1	1
Hydr. extension-set, VFK side-by-side	1	1	1	1	1	1	1	1
Hydr. connection-set in-roof			1				1	
Anodised stainless steel roof bracket	2	2			2	2		
2 panel in-roof mounting set			1				1	
Mounting bar set	2	2		2	2	2	2	2
A-frame set					3		3	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Sizing guide - 5 residents



Please remember your solar fluid, solar cylinder and controls

Solar Fluid (10L) Article number 302363
Solar Fluid (20L) Article number 302498
auroSTOR 310 litres Article number 0010010908

Article number 306764
Article number 0020145323
Article number 0020145324

Load plate options are available for flat roof installations - please consult the manual or contact our technical team on 0844 693 3133 or contact your local area sales representative.

Kit components - 5 residents

auroTHERM exclusive VTK 570	VTK570 Slate/Plain Tiles	VTK570 Profiled Tiles	VTK570 Flat Roof
Estimated solar fluid volume for these systems is 45 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078689	0020078694	0020078699
auroTHERM exclusive VTK 570	5	5	5
Connection set VTK, basic module	1	1	1
Connection set VTK, extension module	4	4	4
Mounting rail set VTK 570	5	5	5
Roof bracket set, black anodised	5	5	5
Aluminium A-frames			6
Solar expansion and protection vessel	1	1	1
Insulated tube, DN16, length 15m	1	1	1
Fittings pack for DN16 tube	1	1	1
Thermostatic mixing valve	1	1	1
Solar pump unit	1	1	1
Automatic air separator	1	1	1

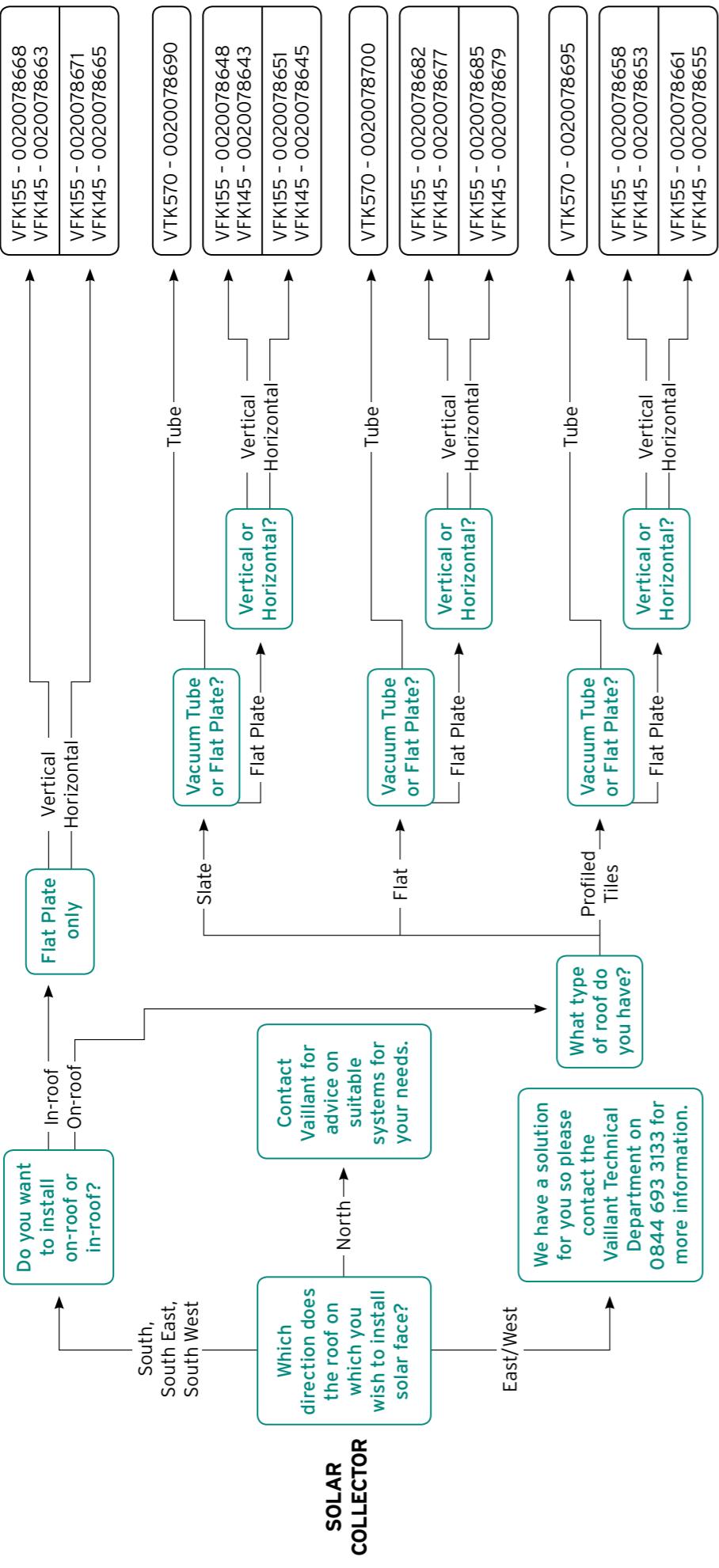
Kit components - 5 residents

auroTHERM plus VFK 15V	VFK15V Slate/Plain Tiles	VFK15V Profiled Tiles	VFK15V In-roof	VFK15V Flat Roof	VFK15H Slate/Plain Tiles	VFK15H Profiled Tiles	VFK15H In-roof	VFK15H Flat Roof
Estimated solar fluid volume for these systems is 40 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078648	0020078658	0020078668	0020078682	0020078651	0020078661	0020078671	0020078685
auroTHERM plus VFK 15V	3	3	3	3	3	3	3	3
auroTHERM plus VFK 15H								
Hydr. connection-set, collector string VFK	1	1	1	1	1	1	1	1
Hydr. extension-set, VFK side-by-side	2	2	2	2	2	2	2	2
Hydr. connection-set in-roof		1					1	
Anodised stainless steel roof bracket	3	3			3	3		
2 panel in-roof mounting set		1				1		
In-roof extension set		1				1		
Mounting bar set	3	3	3	3	3	3	3	3
A-frame set			4				4	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 5 residents

auroTHERM VFK 145	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
Estimated solar fluid volume for these systems is 40 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078643	0020078653	0020078663	0020078677	0020078645	0020078655	0020078665	0020078679
auroTHERM VFK 145V	3	3	3	3	3	3	3	3
Hydr. connection-set, collector string VFK	1			1	1	1	1	1
Hydr. extension-set, VFK side-by-side	2	2	2	2	2	2	2	2
Hydr. connection-set in-roof			1				1	
Anodised stainless steel roof bracket	3	3			3	3		
2 panel in-roof mounting set			1				1	
In-roof extension set			1				1	
Mounting bar set	3	3		3	3	3	3	3
A-frame set				4			4	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Sizing guide - 6 residents



Please remember your solar fluid, solar cylinder and controls

Solar Fluid (10L)

Article number 302363

Solar Fluid (20L)

Article number 302498

auroSTOR 310 litres

Article number 0010010908

auroMATIC 560 intelligent solar control

Solar DHW with weather compensated heating 1 zone

Solar DHW with weather compensated heating 2 zone

Article number 306764

Article number 0020145323

Article number 0020145324

Load plate options are available for flat roof installations – please consult the manual or contact our technical team on 0844 693 3133 or contact your local area sales representative.

Kit components - 6 residents

auroTHERM exclusive VTK 570	VTK570 Slate/Plain Tiles	VTK570 Profiled Tiles	VTK570 Flat Roof
Estimated solar fluid volume for these systems is 53 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078690	0020078695	0020078700
auroTHERM exclusive VTK 570	6	6	6
Connection set VTK, basic module	1	1	1
Connection set VTK, extension module	5	5	5
Mounting rail set VTK 570	6	6	6
Roof bracket set, black anodised	6	6	
Aluminium A-frames			7
Solar expansion and protection vessel	1	1	1
Insulated tube, DN16, length 15m	1	1	1
Fittings pack for DN16 tube	1	1	1
Thermostatic mixing valve	1	1	1
Solar pump unit	1	1	1
Automatic air separator	1	1	1

Kit components - 6 residents

auroTHERM plus VFK 155	VFK155V Slate/Plain Tiles	VFK155V Profiled Tiles	VFK155V In-roof	VFK155V Flat Roof	VFK155H Slate/Plain Tiles	VFK155H Profiled Tiles	VFK155H In-roof	VFK155H Flat Roof
Estimated solar fluid volume for these systems is 40 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078648	0020078658	0020078668	0020078682	0020078651	0020078661	0020078671	0020078685
auroTHERM plus VFK 155V	3	3	3	3	3	3	3	3
auroTHERM plus VFK 155H								
Hydr. connection-set, collector string VFK	1	1	1	1	1	1	1	1
Hydr. extension-set, VFK side-by-side	2	2	2	2	2	2	2	2
Hydr. connection-set in-roof		1					1	
Anodised stainless steel roof bracket	3	3			3	3		
2 panel in-roof mounting set			1				1	
In-roof extension set			1				1	
Mounting bar set	3	3		3	3	3	3	3
A-frame set				4			4	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

Kit components - 6 residents

auroTHERM VFK 145	VFK145V Slate/Plain Tiles	VFK145V Profiled Tiles	VFK145V In-roof	VFK145V Flat Roof	VFK145H Slate/Plain Tiles	VFK145H Profiled Tiles	VFK145H In-roof	VFK145H Flat Roof
Estimated solar fluid volume for these systems is 40 litres. (Based on the use of 15m total length of DN16 flexible tubing between the solar pump station and collector and 2m total length of DN16 flexible tubing between the solar pump station and cylinder.)	0020078643	0020078653	0020078663	0020078677	0020078645	0020078655	0020078665	0020078679
auroTHERM VFK 145V	3	3	3	3	3			
Hydr. extension-set, VFK side-by-side	2	2	2	2	2	2	2	2
Hydr. connection-set in-roof			1				1	
Anodised stainless steel roof bracket	3	3		3	3	3	3	3
2 panel in-roof mounting set			1				1	
In-roof extension set			1				1	
Mounting bar set	3	3		3	3	3	3	3
A-frame set				4			4	
Solar expansion and protection vessel	1	1	1	1	1	1	1	1
Single insulated tube, DN16, length 15m	1	1	1	1	1	1	1	1
Fittings pack for DN16 tube	1	1	1	1	1	1	1	1
Thermostatic mixing valve	1	1	1	1	1	1	1	1
Solar pump unit	1	1	1	1	1	1	1	1
Automatic air separator	1	1	1	1	1	1	1	1

auroSTOR solar cylinders



Manufactured from high grade stainless steel, Vaillant auroSTOR twin coil unvented solar cylinders are available in 210, 260 or 310 litre capacities.

The cylinders are also supplied with a 3kW back-up immersion heater as standard and are designed for use with a boiler to provide additional hot water during periods of low sunlight levels.

For larger cylinder sizes, please contact your local sales representative.



WRAS

**auroSTOR**

Description	Mass empty kg	Mass full kg	Heat loss kW/hr day	Primary heat exchanger dissipation kW	Primary flow rate l/min	Total cylinder volume litres SAP H 12	Heat up from 15 - 60 mins	Re-heat to 70% mins
auroSTOR 210	40	249	1.98	16.5	23.3	209	20	15
auroSTOR 260	43	298	2.15	16.7	23.3	254	27	20
auroSTOR 310	50	347	2.35	16.0	23.3	297	28	21

Solar SAP assessor information

The following information is used by SAP assessors when making their energy calculations for systems which include a twin coil solar cylinder.

Description	Heat loss kW/hr day	Primary heat exchanger dissipation kW	Primary & solar flow rate l/min	Total cylinder volume litres SAP H 12	Solar heat exchanger dissipation kW	Dedicated solar volume SAP H 11	Effective solar volume SAP H 13
auroSTOR 210	1.98	16.7	23.3	209	19.7	105	140
auroSTOR 260	2.15	16.7	23.3	254	19.5	112	160
auroSTOR 310	2.35	16.0	23.3	297	17.2	153	201

auroFLOW plus drainback systems



Due to their versatility and simplicity, solar thermal drainback systems are suitable for a range of applications from individual housing to large commercial buildings.

Our drainback system is ideally suited to commercial applications such as offices, schools, restaurants and hotels. These installations tend to need hot water continuously throughout the day and, as a drainback system works 'on demand' and does not go into stagnation, it is an ideal solution. Also, for larger buildings, the systems can be up-scaled to meet increased hot water demands.

As the solar fluid flows back into the vessel when the pump is not running, installations where the property can be unoccupied for longer periods of time, such as social housing or schools, are also well suited to a drainback system. Simply switching the system off means that there will be no solar fluid in the collector, preventing the need for draining the system down until the building becomes reoccupied.

By preventing stagnation, solar drainback systems also maximise the solar gain.

Our solar thermal drainback system is MCS accredited and therefore making it eligible for various government incentives.



The Vaillant auroFLOW plus drainback system is the result of intensive research and development and is designed to offer maximum efficiency, high performance and total reliability.

The system combines all of the advantages of the very latest Vaillant solar technologies in an easy-to-specify and install kit, under a single article number.

The flexibility of auroFLOW plus means that it can be connected into a conventional heating or a Vaillant heat pump system, such as ground source or air source, to provide hot water if and when required. The system is also easily upscaled to suit larger commercial building applications.

Kit components:

- auroTHERM classic collector(s)
- Connection and hydraulic extension sets for more than one collector
- Installation brackets, rails and A-frames
- VPM 15 or VPM 30 D drainback module with integrated pump and control
- Solar fluid

For further information please see the auroFLOW brochure or contact your local area representative.

Solar controls



VRC 470 weather compensator

Great power needs to be harnessed and channelled. So, as well as investing continually into the development of the industry's leading heating and hot water appliances, Vaillant has also dedicated time, energy and resource into the creation of world-class performance heating controls.

It enables the Vaillant solar system to automatically switch from solar power to conventional power when there is insufficient solar energy available to heat the cylinder.

VRC 470 weather compensator

The Vaillant Total Solar System Solution has WRAS approval, which allows the heating system to be controlled by Vaillant VRC 470 weather compensating controls to optimise both central heating and solar efficiency.

The VRC 470 is a weather compensated, programmable room thermostat designed for use with single eBUS (ecoTEC) boilers. It features a backlit plain text display with one rotary control and 2 push buttons to make navigation easy.

It has time and temperature controls for the heating and hot water channels and an additional timed channel for a secondary circulation pump.

Programming for seven-day, five-day, two-day or 24-hour operation is possible with three different switching periods for each channel. Additional features include: set-back temperature, heating and hot water advance, automatic summer to winter changeover and holiday modes. With additional accessories (VR 61 and VR 81) the VRC 470 can be used to control one or two heating zones and a hot water circuit. Simple two-wire low voltage eBUS connections make the VRC 470 easy to install and commission for true plug and play flexibility. A wireless version of this control is also available, the VRC 470f.



auroMATIC 560 control

auroMATIC 560 control

Easy to read and simple to operate, the auroMATIC 560 is a differential control with built-in intelligence. This control is easy to use and offers the highest levels of heating and hot water efficiency on the market.

It enables the Vaillant solar system to automatically switch from solar power to conventional power when there is insufficient solar energy available.

The basic configuration of the auroMATIC 560 allows for control of the following system circuits:

- Two independent collector arrays (order independent collector sensor VR11) or one collector array and one solid fuel boiler
- Connection option for a second cylinder
- One domestic hot water circulation

Key features and benefits:

Vaillant operating convenience
'turn and click' function

- For ease of use and quick, safe installation

Displays operating conditions and switching times with easy-to-read symbol display

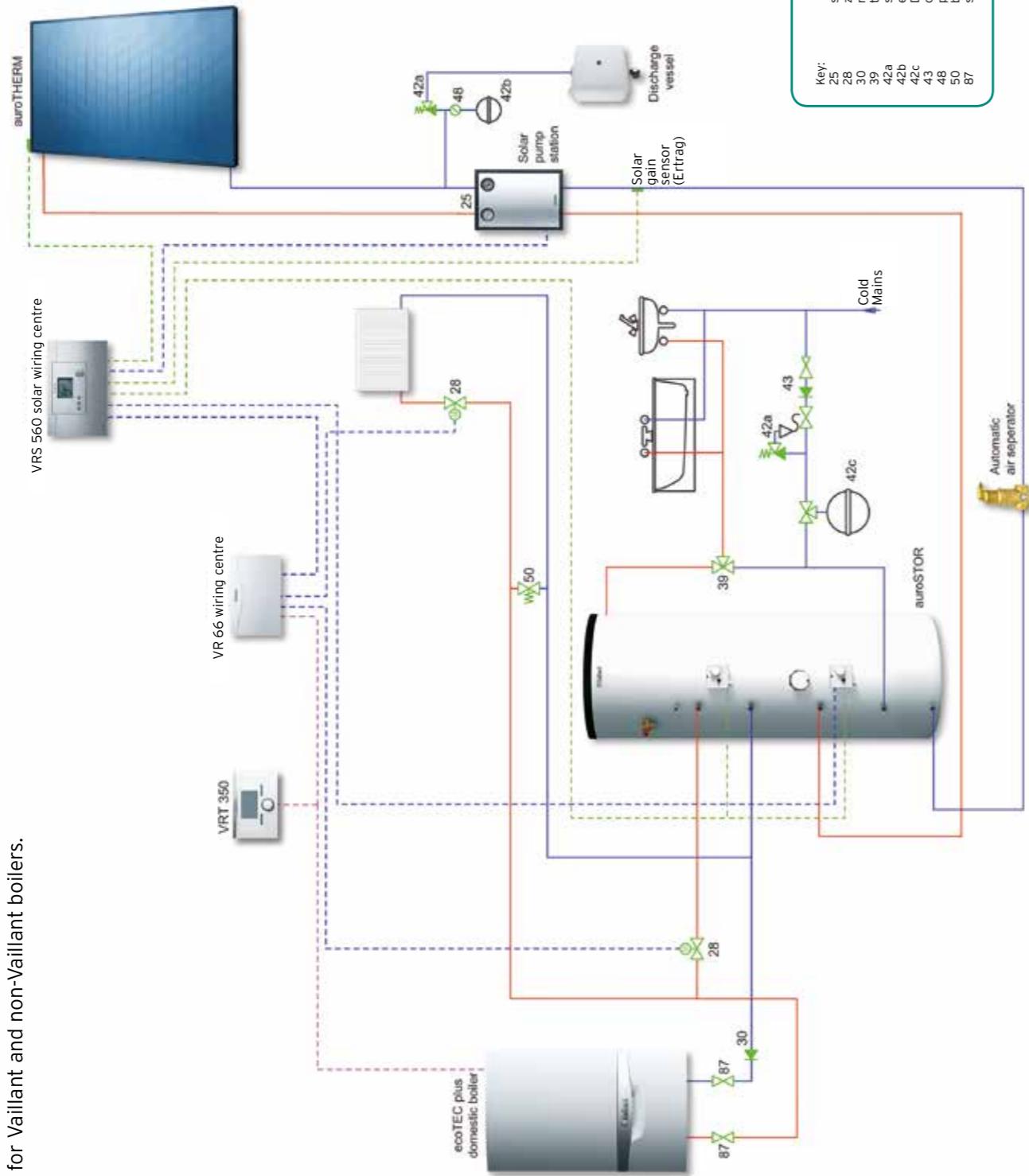
- For ease of operation and maintenance

Special programmable functions such as:

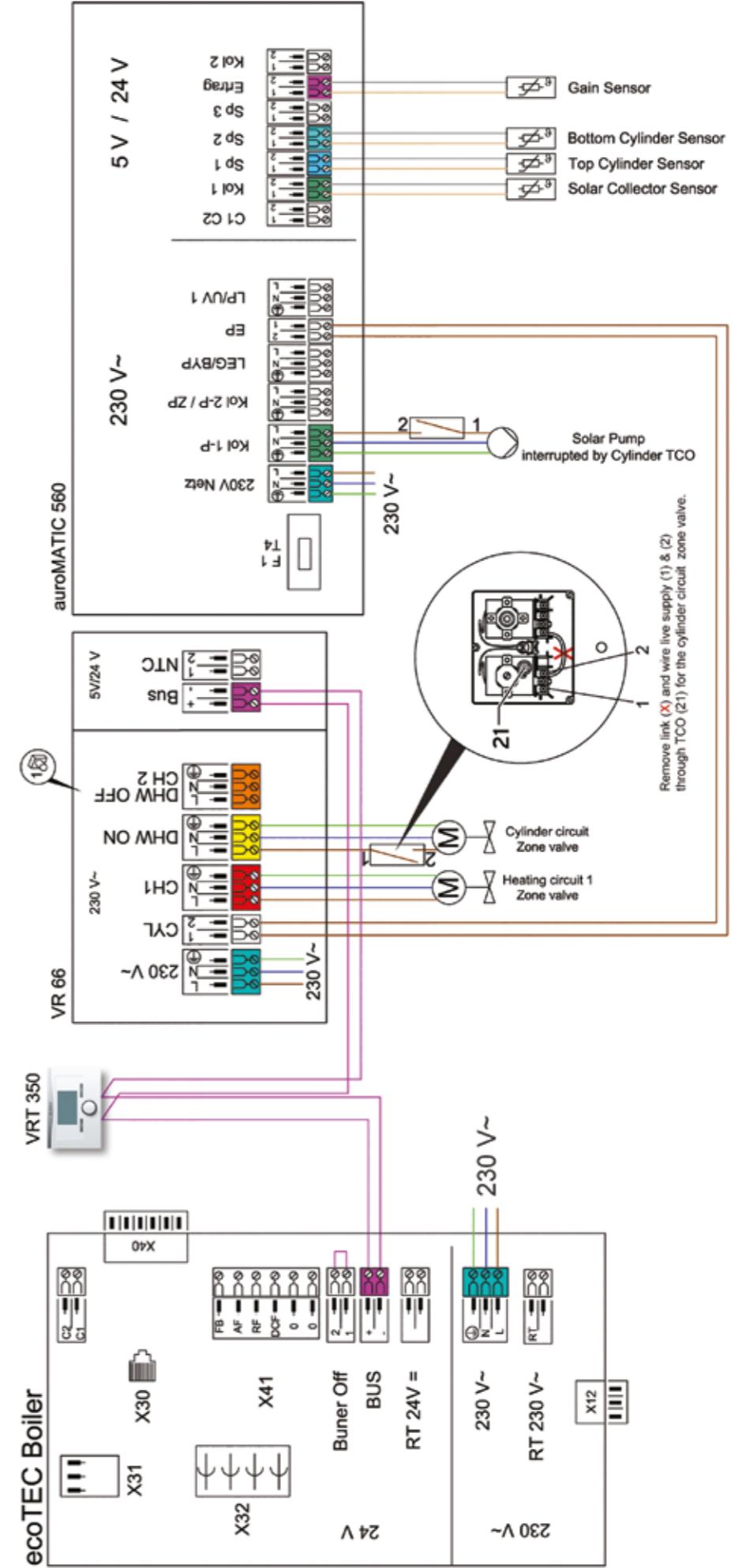
- Party mode function
 - Enables the boiler to override, for continuous hot water supply until the next set off period
- One-time cylinder boost
 - Enables boiler override until desired hot water temperature is reached
- Holiday function
 - Maintains hot water at a minimum temperature for specified dates and times in order to preserve energy whilst you are away

auroMATIC 560 control system - single zone

System 1: Suitable for Vaillant and non-Vaillant boilers.



euromATIC 560 control system - wiring diagram

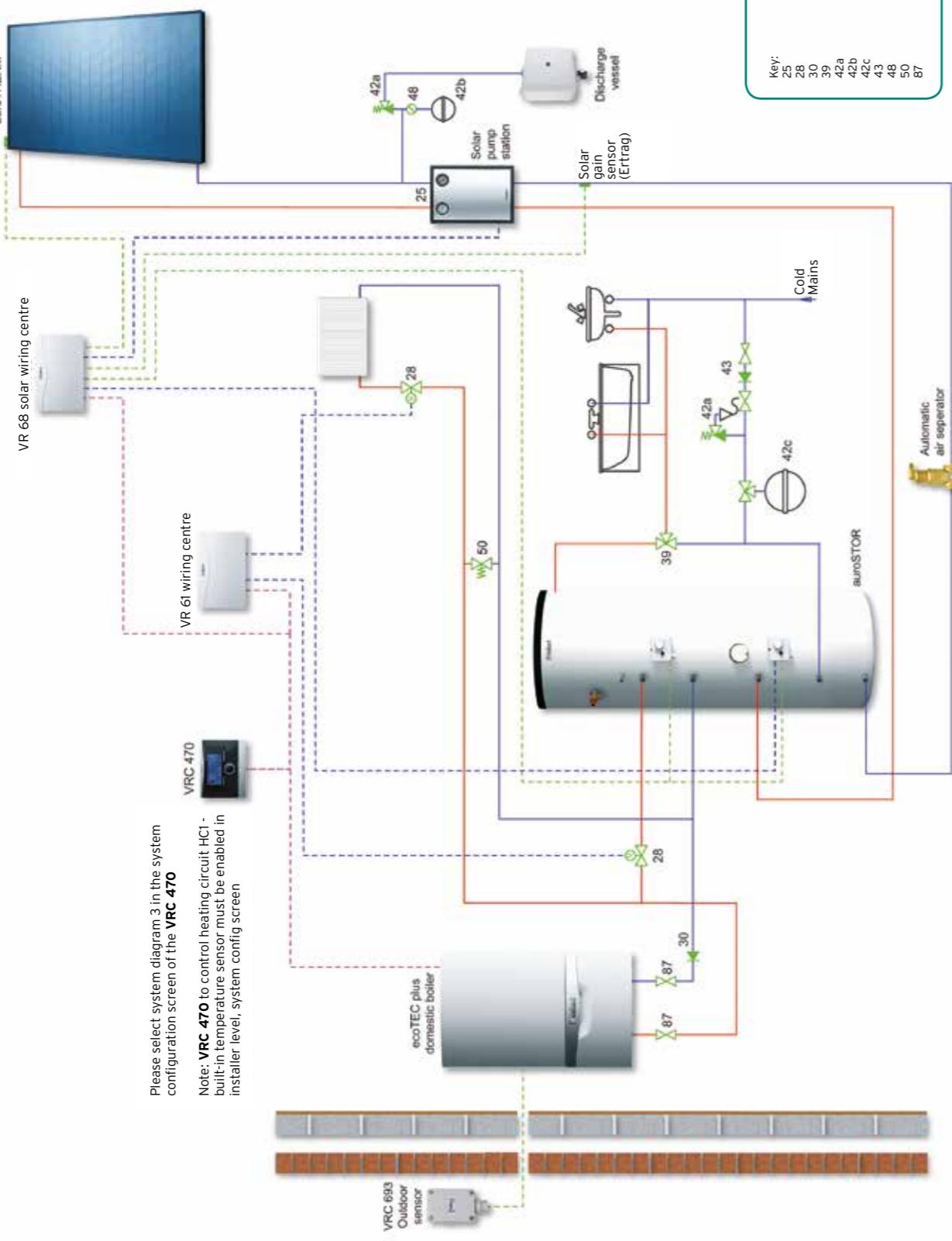


VRC 470 single zone control system

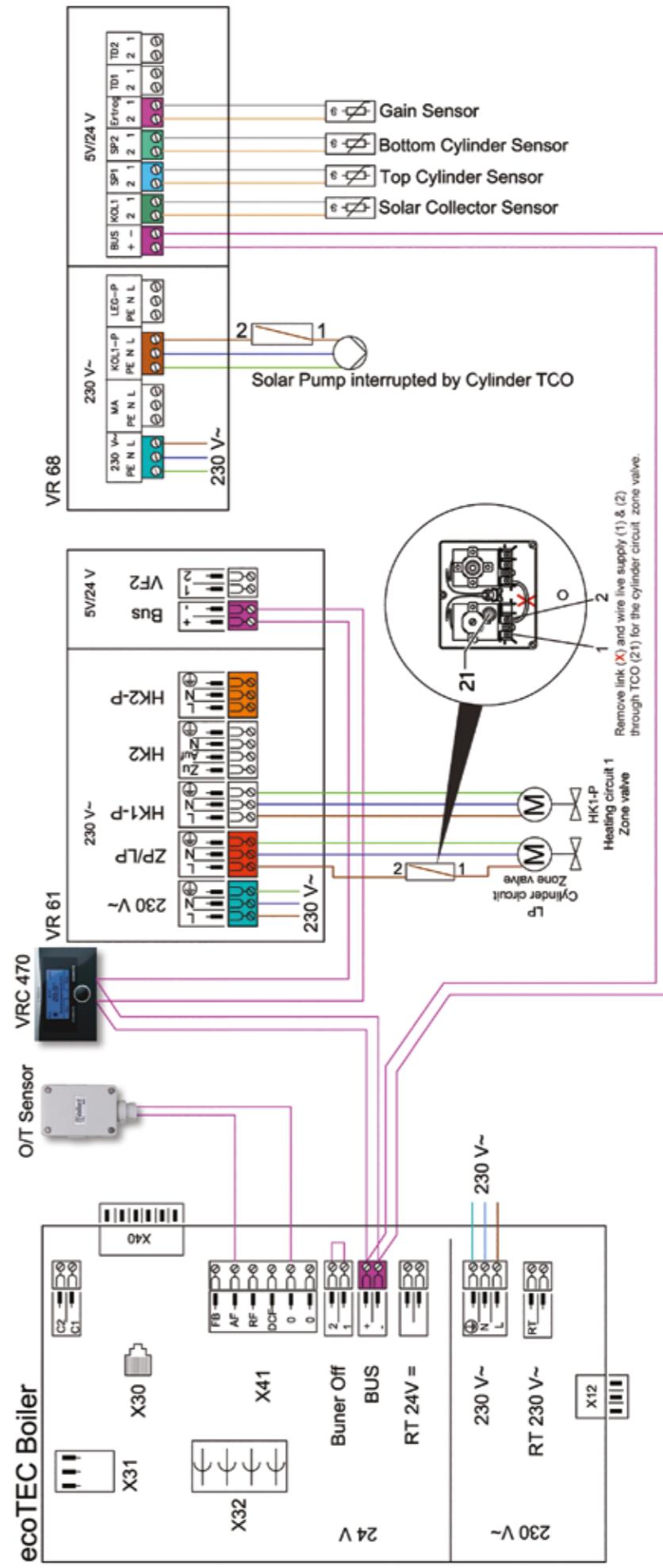
System 2: Suitable for Vaillant eBUS enabled boilers only.

Please select system diagram 3 in the system configuration screen of the **VRC 470**

Note: **VRC 470** to control heating circuit H1 - built-in temperature sensor must be enabled in installer level, system config screen



VRC 470 single zone system - wiring diagram



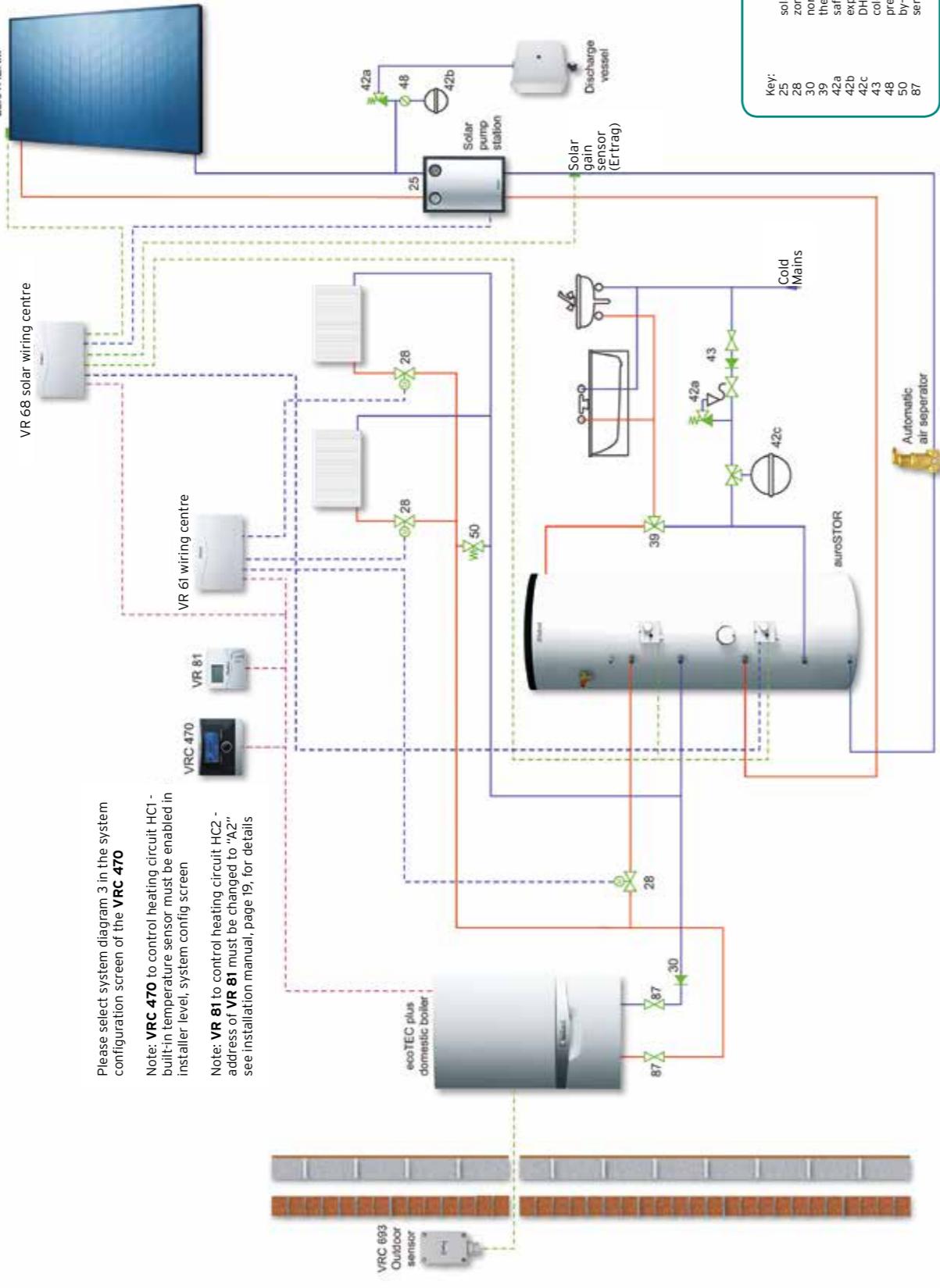
VRC 470 two zone control system

System 3: Suitable for Vaillant eBUS enabled boilers only.

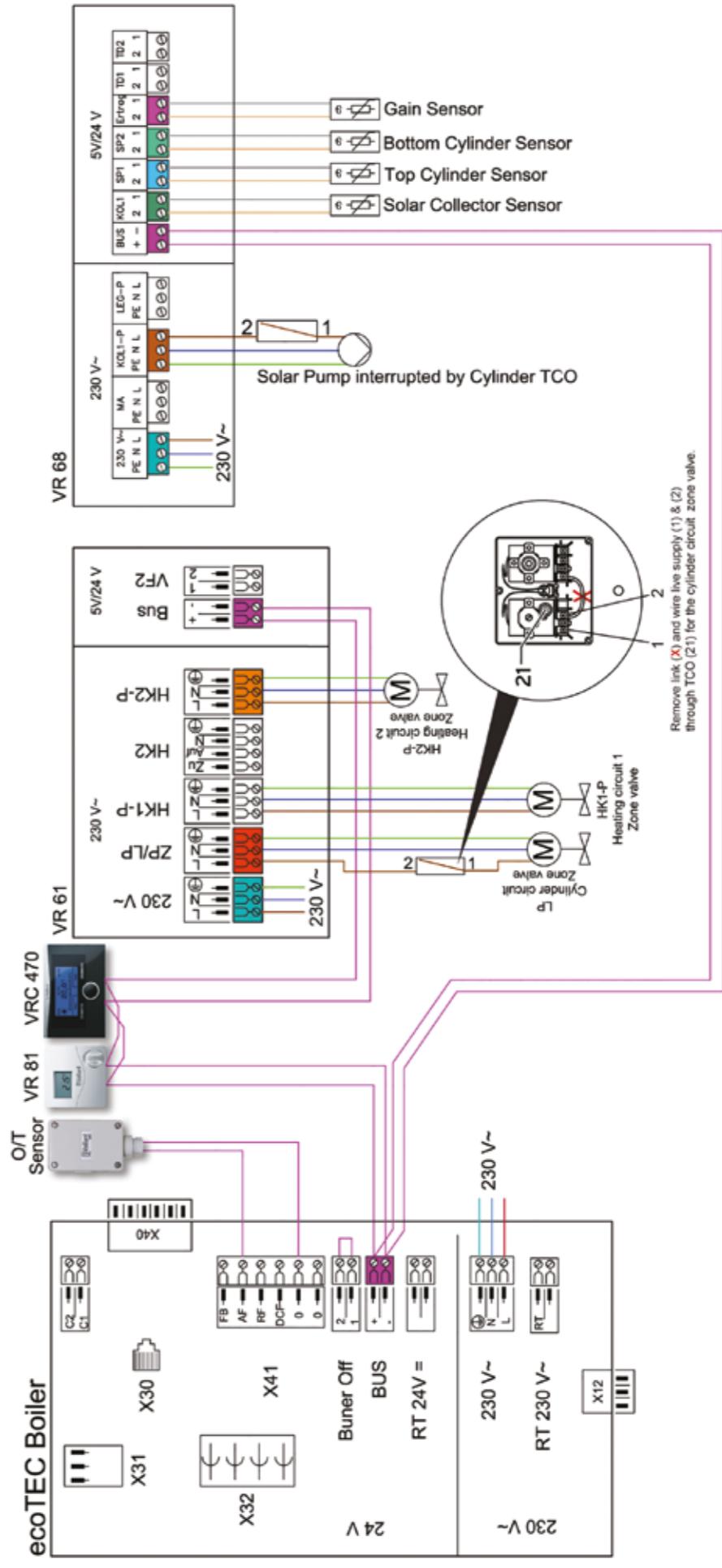
Please select system diagram 3 in the system configuration screen of the **VRC 470**

Note: **VRC 470** to control heating circuit HC1 - built-in temperature sensor must be enabled in installer level, system config screen

Note: **VR 81** to control heating circuit HC2 - address of **VR 81** must be changed to "A2" - see installation manual, page 19, for details

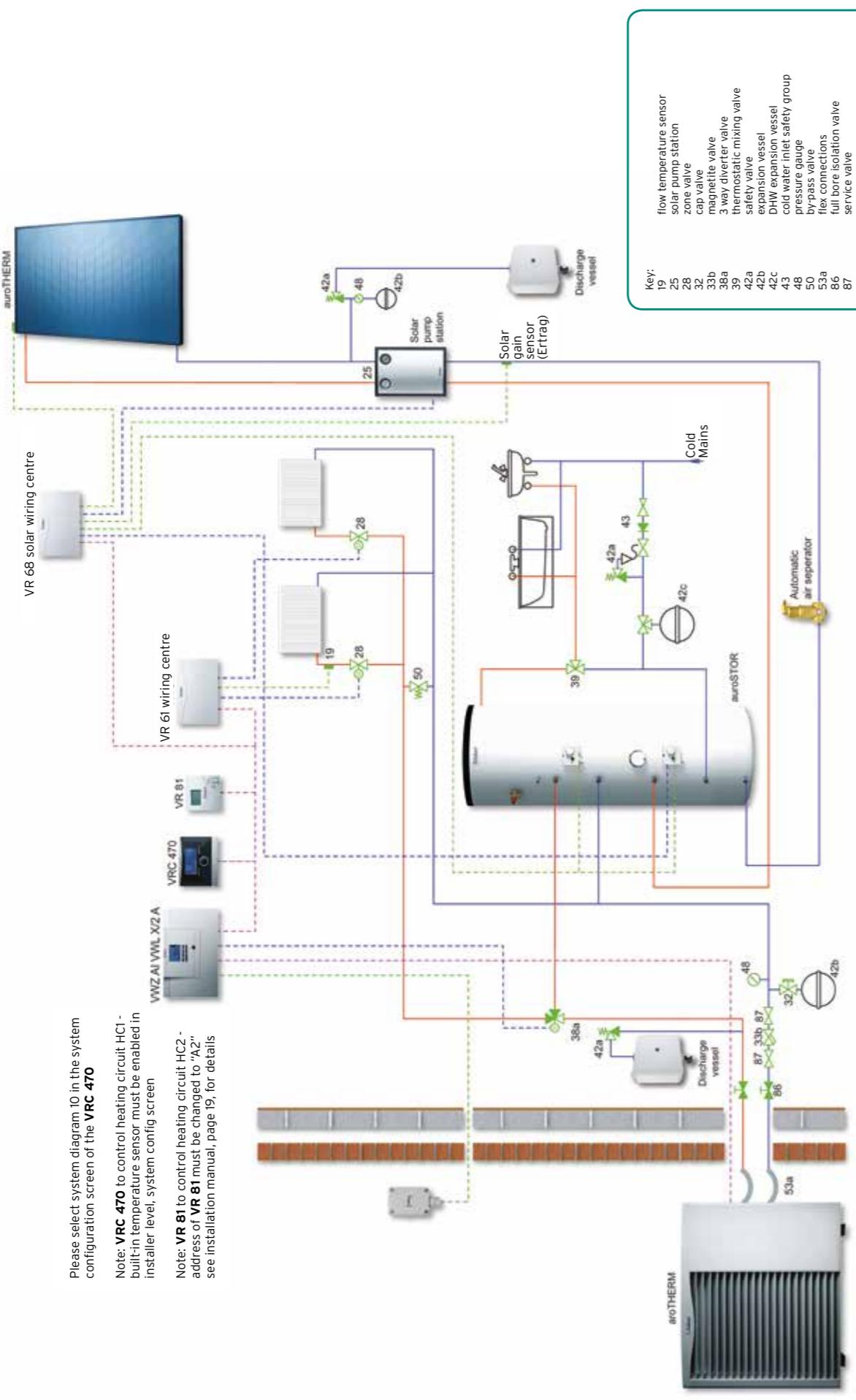


VRC 470 two zone system - wiring diagram

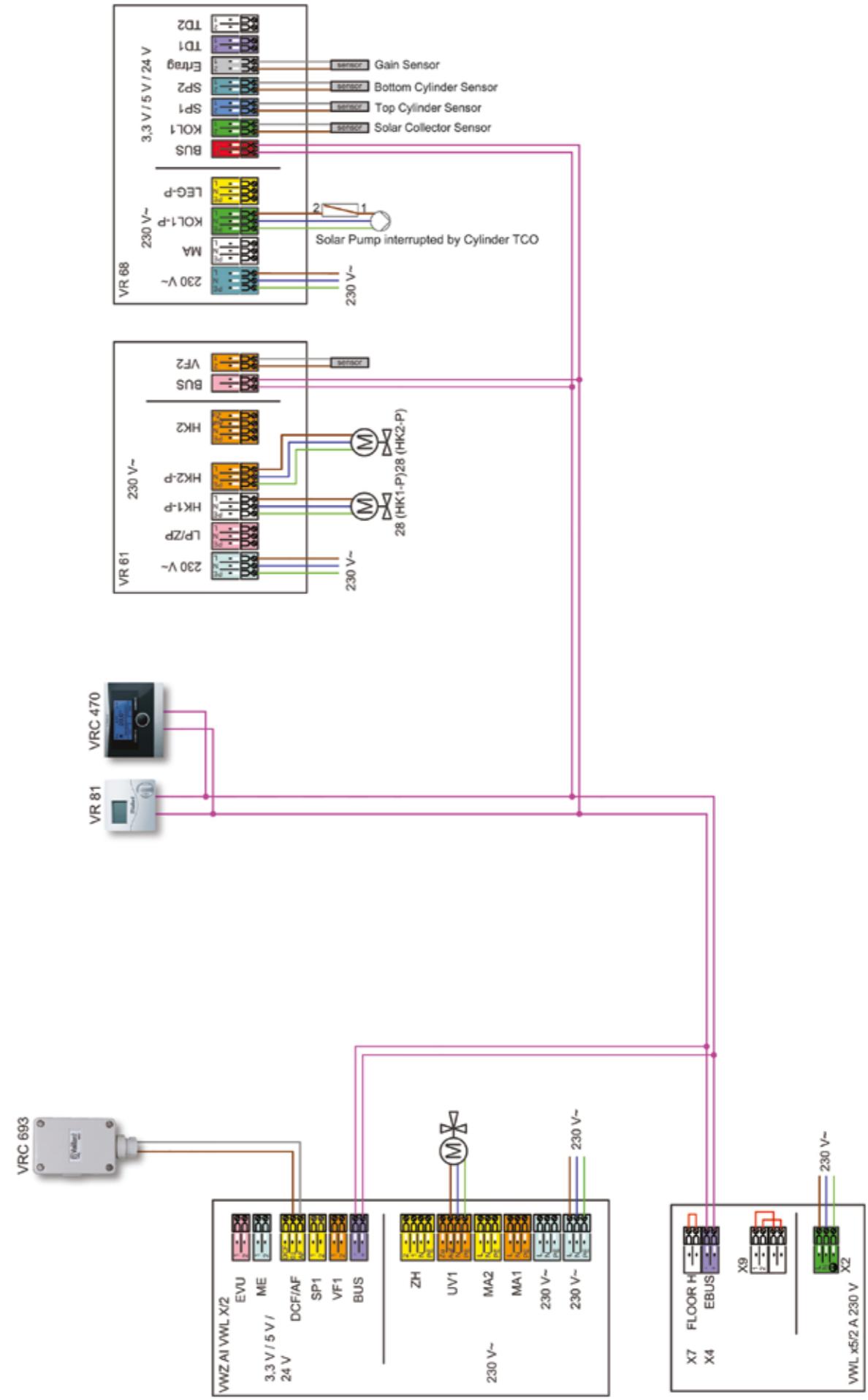


auroTHERM solar with air-to-water heat pump system

Please note: Solar can be used with GSHPs. For further information, please contact your local area representative.



auroTHERM solar with air-to-water heat pump system - wiring diagram



The Vaillant service standard



Here at Vaillant, we strive towards delivering exceptional service, quality and reliability, so you can rest assured that when you choose us, you'll be supported by the best.

To back this up, we've taken our commitment to the next level and have invested in a Renewable Technology Division; a team of fully trained engineers who are currently the most qualified team supporting any manufacturer in the UK. Supported by an expertly trained call centre, they're available to assist you whenever you're installing a renewable product.

Our team are here for you at every step of the way. From system design by our award-winning experts and assisted commissioning for your first installation, to our network of dedicated spare part distributors; we ensure you get industry-leading support – with no additional cost to your business. With Vaillant you can ensure you and your customers have complete peace of mind.

The Vaillant service standard

**System design**

Good designs are incredibly important if you are going to get the highest level of efficiency and payback from a renewable system. Our award-winning expert design service is completely tailored to suit your individual site requirements. Using the latest state-of-the-art CAD technology, we provide high quality designs supported by full indemnity cover. Our expert system technologies team will also provide planning and on-site support for even the most unique and challenging of renewable projects.

Straightforward delivery

We will deliver your renewable system anywhere you want, be it directly to the site or to the local trade counter where you placed your order. To make sure that the site is ready to accept the delivery, we will call when we are one hour away from the delivery destination and will arrive with all the correct lifting equipment to ensure that the product is safely transferred to site – it couldn't be easier!

Assisted commissioning*

Service engineers will visit the installation and guide you through the first system commissioning, helping with the final stages and the handover of the installation as needed.

Spares

We have a network of dedicated spare part distributors in over 680 outlets across the UK. Each stockist has been approved by us and commits to hold the majority of Vaillant spares requirements at any one time; otherwise the products are only a phone call away.

Full local support

Our nationwide sales team provides installers and specifiers with expert support from beginning to end.

*A charge may apply for this service.

As well as auroTHERM solar systems, we're proud to have a whole suite of renewable solutions; all designed to utilise sustainable sources of energy.

We offer a wide range of:

auroTHERM air-to-water heat pumps
auroTHERM air-to-water hybrid systems
geoTHERM ground source heat pumps



For further information on our range of renewable systems, visit www.vaillant.co.uk or contact your local area representative.

Vaillant Advance



Your opportunity to go further with Vaillant. Become a Vaillant Advance Partner.

When you sign up to Vaillant Advance, you're not just joining a loyalty programme, you're linking up with the UK's number one heating and renewables manufacturer. A business that's set the standard in the heating market since 1874.

What benefits can I expect?

As a Vaillant Advance Partner, you not only get to provide your customers with industry-leading product solutions, you also get to enjoy great business benefits as well as earn Advance Points to redeem against a huge online catalogue of rewards.

Solar collectors	Points
auroTHERM exclusive (vacuum tube extra large set)	8000
auroTHERM plus (flat plate A-frame 3 panel set)	4000

- Up to 25% discount on selected accredited training courses (BPEC, F-Gas, etc.)
- FREE product training at our market-leading nationwide Centres of Excellence
- FREE homeowner advertising on Vaillant's websites
- Quick and easy claiming process for both guarantee and Advance Points registration
- Reduced paperwork and administration
- If you install boilers you will get extended guarantees:
7 years on ecoTEC plus and ecoTEC exclusive,
5 years on ecoTEC pro

How can I join the programme?

You can apply online at: www.vaillant-advance.co.uk or by calling 01908 214 884

Vaillant
ADVANCE

7 year
guarantee

5 year
guarantee

Accessories and spare parts

A-frame Accessories	
Description	Article Number
Loading plate set, 4 pcs (1 required per A-frame).	0020137768
Base profile set, VFK A-frame V/2, (To fit extra load plates)	0020160628
Base profile set, VFK A-frame H/2, (To fit extra load plates)	0020160635
Base profile set, VTK A-frame, (To fit extra load plates)	0020160642
Steel wire for anchoring of A-frames	0020160658
Anchor bolt screw set, 2 pcs.	0020146025

Other Accessories	
Solar control auroMATIC 560/2	306764
Solar control with weather compensating heating control - one zone. Includes wired VRC 470, VR 68 and VR 61	0020145323
Solar control with weather compensating heating control - two zone. Includes wired VRC 470, VR68, VR61 and VR81	0020145324
Solar fluid 20L	302498
Solar fluid 10L	302363
Refractometer	0020042549
Antifreeze test kit	0020020645
Filling pump trolley	0020145706
Filling pump	0020166591
Handle bar (for lifting flat panels)	0020039688
Solar discharge catchment vessel - 9.7L. Can be fitted in series (vertically) to increase capacity	0020145563
Adaptor set solar DN20 male x DN16 female	0020059767
Flashing additional roll 5m in-roof VFK Additional weather sealing for in-roof flashings	0020080801
VR 10 domestic hot water sensor grey lead	306787
VR 11 domestic solar collector sensor black lead	306788
Single DN16 tube solar insulated length 15m	0020023066
Twin DN20 tube solar insulated length 15m	302417
Pipe clamps for DN16 twin solar flextube 4 pcs	0020025385
Pipe clamps for DN20 twin solar flextube 4 pcs	0020025386

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Installers

For installers wishing to purchase Vaillant products, this is possible either over the counter or as a next-day service at most plumbing and heating merchants in the UK.

To find contact details for your nearest Vaillant sales representative:

Telephone: 0845 602 2922

Renewables Service

For renewables products servicing and commissioning:

Telephone: 020 7022 0928

Training Enquiries

For more information on our solar training courses please call:

Telephone: 0845 601 8885

Email: training@vaillant.co.uk

Bespoke Design Service

For more information on our bespoke design service, contact your local sales representative.

Technical Enquiries

For technical assistance:

Telephone: 0844 693 3133

Email: technical@vaillant.co.uk

General Enquiries

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

Telephone: 0845 602 2922

Renewable Technologies Division

For more information on our dedicated Renewable Technologies Division engineers:

Telephone: 0844 736 0048

Email: renewablesaftersales@groupservice.co.uk

Vaillant Group UK Ltd.

Nottingham Road, Belper, Derbyshire DE56 1JT

Telephone: 0845 602 2922 www.vaillant.co.uk info@vaillant.co.uk

