



Heating



Hot water



Renewables

# Heat pump range from Vaillant



**Vaillant**



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Please note the information contained in this guide is for the use of competent and qualified heating engineers in the UK. We always recommend attending a training course provided by Vaillant to ensure complete knowledge of the appliance and/or accessories you are installing. The Vaillant Group does not warrant the accuracy or completeness of any of the information provided in this brochure. Should you require any clarification or further information, please speak with your Regional Business Manager or call our technical helpline. The Vaillant Group does not accept liability or responsibility resulting from the installer's failure to comply with the guides or otherwise. For more detailed information, please refer to the installation manual for each product you are using.

# About Vaillant



## The Vaillant Group

Vaillant UK is proud to be part of the worldwide heating and hot water corporation Vaillant Group, a family-owned business that was founded by Johann Vaillant in his workshop in Remscheid, Germany in 1874.

Over 150 years ago, Johann patented a new closed-system gas-fired bathroom boiler which was the first heating product manufactured by Vaillant. Through the years, Vaillant's technical innovations have continued. We launched a central heating boiler in 1924 which was marketed alongside the classic gas-fired water heaters. It was the beginning of central heating as we know it today. And, in 1967 'Combi Geyser' was launched which combined central heating and hot water supply for the first time ever.

Since these revolutionary inventions, Vaillant has continued to drive the evolution of heating technologies. In 2020, Vaillant launched the first air source heat pump using R290 refrigerant, the game-changing aroTHERM plus. At Vaillant, we consistently create new cutting-edge products, while always striving to put our customers first. Our continued support in the gas boiler market includes the next generation ecoTEC plus, which is designed for ease of installation, and incorporates digital technology to ensure maximum efficiency for the end user.

Today, Vaillant is still setting the standard in the heating industry, focused on delivering full heating system solutions that will stand the test of time, whilst supporting installers, specifiers and commercial partners for life. Through developing highly efficient heating appliances, digital heating solutions and providing excellent training offerings that are truly crafted with our customers' needs at heart.

# Setting the standards since 1874



## Manufacturing at its finest

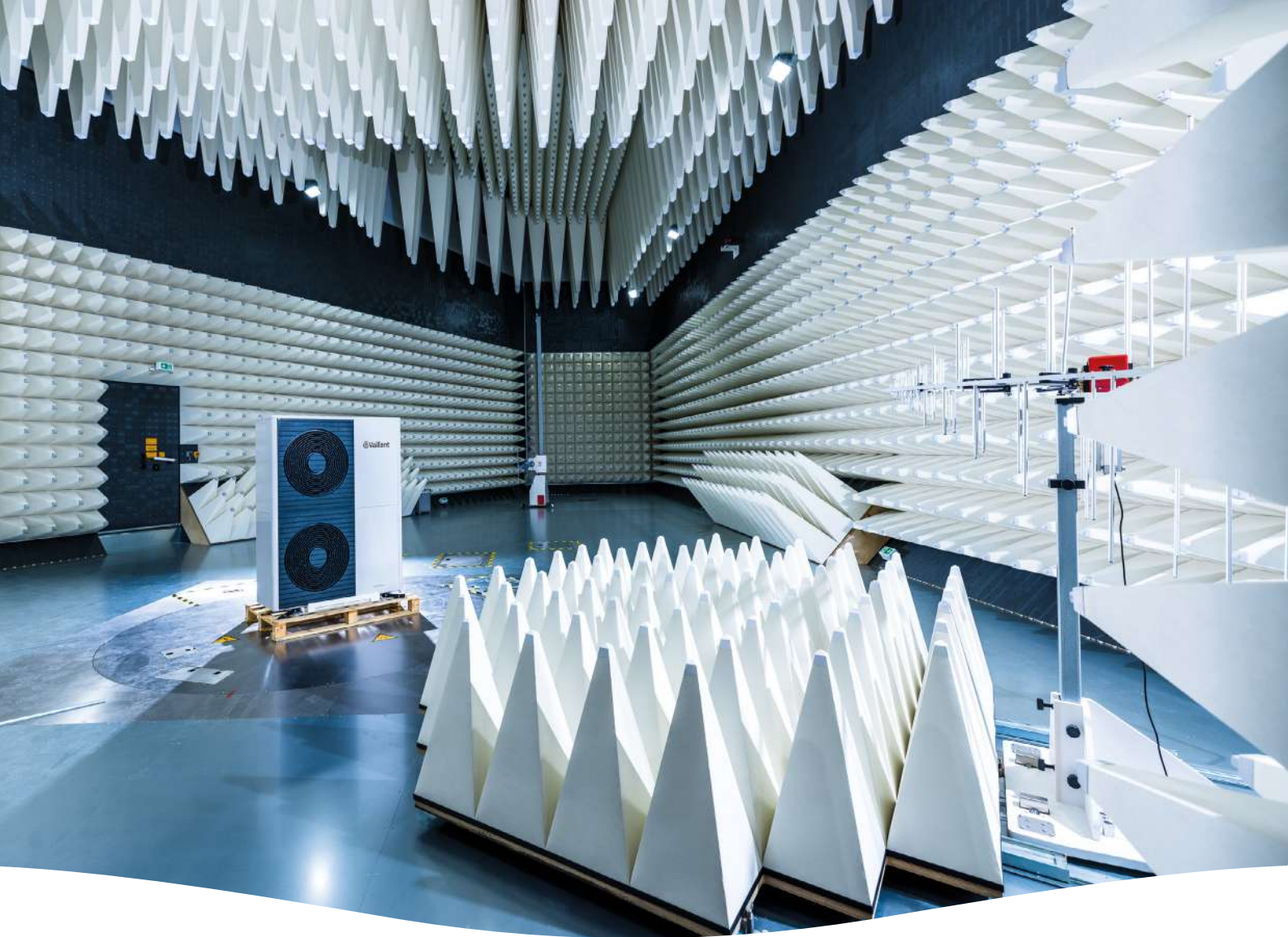
By choosing our heating appliances, you will get an unwavering commitment to deliver the high standard of products and services that you expect from Vaillant.

Our two UK manufacturing sites have state-of-the-art facilities that produce market leading products. We are proud to have been awarded the prestigious RoSPA President's Gold Award for world class health and safety excellence for ten consecutive years. Vaillant has exceptionally high standards in manufacturing to ensure we make outstanding, reliable products that meet ISO 9001, 18001 and 14000.

## Which? Recommended Brand for Gas Boilers

The award recognises that Vaillant's products are designed with quality craftsmanship, tested for longevity, and supported by high levels of customer satisfaction. This reflects Vaillant's ongoing commitment to innovation, industry-leading standards, and customer care.





### Why Vaillant?

Vaillant has been setting the standard in the heating market since 1874 by continually developing products that revolutionise the industry. Today, our innovative solutions are still setting the standard in the heating marketplace. We have produced a comprehensive range of renewable technologies designed to use sustainable sources of energy.

Our products are at the very forefront of technology and deliver on the Vaillant promise to 'think ahead', safeguarding our planet for future generations whilst delivering energy efficient products that can reduce the cost of providing heating and hot water to the home as well as reducing the impact on the environment by reducing carbon emissions.

Every product developed by Vaillant is routinely subjected to rigorous materials analysis, robustness testing, lifetime testing and acoustics analysis. This meticulous and unremitting commitment to quality is evident at every stage in the product development process, which is applied to every spare part that we sell.

Vaillant has invested heavily in the research and development of heat pumps. In 2018, Vaillant opened the Johann Vaillant Technology Center at its headquarters in Remscheid, Germany. Over 54 million euros were invested in the research and development facility. The aim is to enhance the market position of high-efficiency, low carbon technologies such as heat pumps, develop additional international markets, further extend the portfolio of digital services, and secure long-term profitable growth.

Furthermore, we are committed to finding new and ever more imaginative ways to provide service excellence before, during and long after the installation of Vaillant appliances. We strongly believe that the most advanced heating solutions on the market demand the most forward-thinking service solutions – that is why we pride ourselves on our unrivalled service support.

# Coastal protection



## Sea salt spray from breaking waves and onshore winds significantly accelerates the corrosion of metal components

The Blue Fin coating on the aroTHERM plus range of air source heat pumps improves performance and protects the unit from corrosion. This specialised coating helps the heat pump withstand harsh weather conditions, including coastal salt spray, by preventing dirt, dust, and debris from sticking to the evaporator coils. It also contributes to the unit's efficiency by keeping the coils clean and improving airflow.

The addition of the C4 coating provides a very high protection against salinity for environments that are near to the sea.

C4-I Very high (industrial) industrial areas with high air humidity and aggressive atmosphere. Areas with almost constant condensation and high levels of atmospheric pollution. C4-M Very high (Maritime) coastal and offshore areas with high salinity.

If the installation site is in the immediate vicinity of the coastline, ensure that the product is protected against spraying water by an additional protection device, such as a shelter, ensuring that the protection zone has been adhered to and the air flow is not compromised.

## Tips for coastal installations

- Ensure rainwater can fall onto the outdoor unit and avoid placement directly under building overhangs.
- In areas prone to sea salt spray, Vaillant recommends regular inspections and washing of the outdoor unit with fresh water.
- Any scratches to the casing of the outdoor unit, should be repaired as soon as possible to maintain the integrity of the C4 coating.

# aroTHERM plus

Air source heat pump



## Overview

The next generation aroTHERM plus has been fine-tuned and optimised to deliver our most efficient air source heat pump yet.

Thanks to our unique safety concept, the new aroTHERM plus has never been so simple to site and install. The protective zone around the heat pump has been significantly reduced, giving you unprecedented flexibility. The range is available in 3.5, 5, 7, 10\* and 12kW\* output sizes at 230v to suit varied installation requirements. Supporting the new aroTHERM plus is a brand-new VWZ AI with a user-friendly semi-touch interface that offers intuitive control, mirroring the familiar design of our boilers.

Our extensive uniSTOR range of high recovery cylinders suits all property types and water demands, making it the perfect partner for the aroTHERM plus.

## Features & benefits



### Super quiet operation

The aroTHERM plus is the quietest air-to-water heat pump in our portfolio. With a particularly low noise level of only 44 dB(A), it offers an advantage when choosing the installation location.



### Maximum flexibility. Minimum protection zones

The new standard in heat pump technology. Our new safety concept, Flexible Space Function (FSF), provides greater siting options around the home. This allows you to install the aroTHERM plus in tighter areas where space is a minimum. Under windows, next to doors, our new FSF unlocks more installation opportunities than ever before.



### Best performance, better for the environment

R290 enables high flow temperatures of up to 75°C. At the same time, the low GWP of only 0.02\*\*, makes it particularly climate-friendly for your customers.



### Up to 7-year extended guarantee

The brand-new aroTHERM plus comes with a 7-year extended guarantee when registered with a Vaillant cylinder on myREWARDS, so you can offer your customers an additional benefit: long-term system reliability and peace of mind.



### Blends in perfectly with UK housing stock

Discreet and timeless. The new anthracite casing retains the distinctive look of our award-winning predecessor, perfect for the retrofit market.

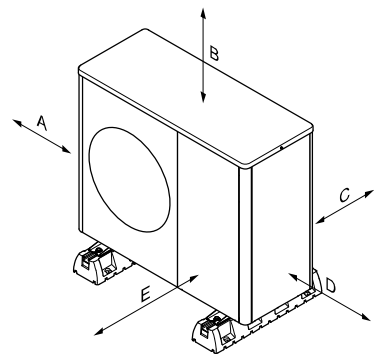
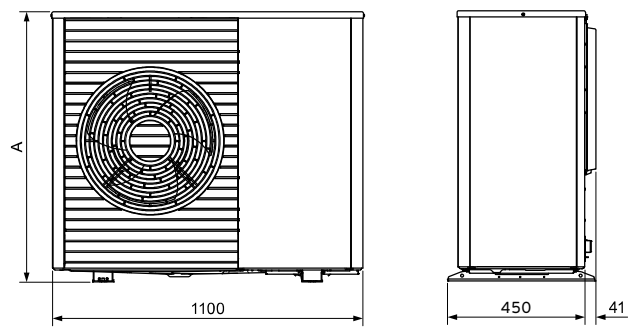
\* Also available in 400v.

\*\* R290 has a 10-year GWP of 0.02, much lower than the traditionally assumed value of 3.

| Technical data                                                                                    | Unit        | 3.5kW                                                                                 | 5kW  | 7kW                 | 10kW<br>(230V)    | 12kW<br>(230V) | 10kW<br>(400V) | 12kW<br>(400V)                      |
|---------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|------|---------------------|-------------------|----------------|----------------|-------------------------------------|
| General                                                                                           |             |                                                                                       |      |                     |                   |                |                |                                     |
| Dimensions (H x W x D)                                                                            | mm          | 765 x 1100 x 450                                                                      |      | 965 x 1100<br>x 450 | 1480 x 1100 x 450 |                |                |                                     |
| Weight, ready for operation                                                                       | kg          | 114                                                                                   |      | 132                 | 196               |                | 211            |                                     |
| Connection, heating circuit                                                                       |             | G 1 1/4"                                                                              |      |                     |                   |                |                |                                     |
| Rated voltage                                                                                     |             | 230 V (+10%/-15%), 50 Hz, 1~/N/PE                                                     |      |                     |                   |                |                | 400 V (+10%/-15%),<br>50 Hz,3~/N/PE |
| Rated current, maximum                                                                            | A           | 15.2                                                                                  |      | 15.5                | 25                |                | 14             |                                     |
| Fuse size                                                                                         | A           | 16                                                                                    |      |                     | 25                |                | 16             |                                     |
| Fuse type                                                                                         |             | Characteristic B, slow-blow, singlepole switching                                     |      |                     |                   |                |                |                                     |
| RCD type                                                                                          |             | Type B rated to 20kHz or greater and with a minimum trigger point of 150mA above 1kHz |      |                     |                   |                |                |                                     |
| eBUS (2-core communication cable)                                                                 | mm²         | 0.75                                                                                  |      |                     |                   |                |                |                                     |
| Maximum length eBUS cable (polarity sensitive)                                                    | m           | 50                                                                                    |      |                     |                   |                |                |                                     |
| IP rating                                                                                         |             | IPX4                                                                                  |      |                     |                   |                |                |                                     |
| Fan power consumption                                                                             | W           | 40                                                                                    |      |                     | 50                |                |                |                                     |
| Fan quantity                                                                                      |             | 1                                                                                     |      |                     | 2                 |                |                |                                     |
| Fan air flow, maximum                                                                             | m³/h        | 2300                                                                                  |      |                     | 5100              |                |                |                                     |
| Heating pump, power consumption                                                                   | W           | 2 - 50                                                                                |      |                     | 3 - 87            |                |                |                                     |
| Heating circuit                                                                                   |             |                                                                                       |      |                     |                   |                |                |                                     |
| Heating water temperature, minimum/maximum                                                        | °C          | 20 - 75                                                                               |      |                     |                   |                |                |                                     |
| Basic length of the heating water pipe, maximum, between the outdoor unit and indoor unit         | m           | 20                                                                                    |      |                     |                   |                |                |                                     |
| Maximum static height difference between outdoor unit and the highest point in the heating system | m           | 18                                                                                    |      |                     | 13                |                |                |                                     |
| Minimum operating pressure                                                                        | bar         | 0.5                                                                                   |      |                     |                   |                |                |                                     |
| Maximum operating pressure                                                                        | bar         | 2.5                                                                                   |      |                     |                   |                |                |                                     |
| Minimum volume flow                                                                               | l/h         | 430                                                                                   |      | 605                 | 1075              |                |                |                                     |
| Maximum volume flow                                                                               | l/h         | 860                                                                                   |      | 1205                | 2065              |                |                |                                     |
| Water volume, in the outdoor unit                                                                 | l           | 1.5                                                                                   |      | 2.0                 | 4.5               |                |                |                                     |
| Minimum open water volume                                                                         | l           | 15                                                                                    |      | 20                  | 45                |                |                |                                     |
| Refrigerant circuit                                                                               |             |                                                                                       |      |                     |                   |                |                |                                     |
| Fluid type                                                                                        |             | R290                                                                                  |      |                     |                   |                |                |                                     |
| Fluid fill quantity                                                                               | kg          | 0.6                                                                                   |      | 0.9                 | 1.3               |                |                |                                     |
| Refrigerant, Global Warming Potential (GWP)                                                       |             | 0.02                                                                                  |      |                     |                   |                |                |                                     |
| CO <sub>2</sub> equivalent                                                                        | t           | 0.000012                                                                              |      | 0.000018            | 0.000026          |                |                |                                     |
| Permissible operating pressure                                                                    | bar         | 31.5                                                                                  |      |                     |                   |                |                |                                     |
| Compressor type                                                                                   |             | Rotary piston                                                                         |      |                     | Scroll compressor |                |                |                                     |
| Compressor oil type                                                                               |             | Specific polyalkylene glycol (PAG)                                                    |      |                     |                   |                |                |                                     |
| Compressor, control                                                                               |             | Electronic                                                                            |      |                     |                   |                |                |                                     |
| Noise emissions, heating mode                                                                     |             |                                                                                       |      |                     |                   |                |                |                                     |
| Sound Power Level atA7/W55 (ErP / outdoor)                                                        | dB(A)       | 44.1                                                                                  | 44.3 | 46.8                | 50                |                |                |                                     |
| Efficiency                                                                                        |             |                                                                                       |      |                     |                   |                |                |                                     |
| Energy efficiency class 35°C                                                                      | (A+++ to F) | A+++                                                                                  |      |                     |                   |                |                |                                     |
| Energy efficiency class 55°C                                                                      | (A+++ to F) | A++                                                                                   |      |                     | A+++              |                |                |                                     |

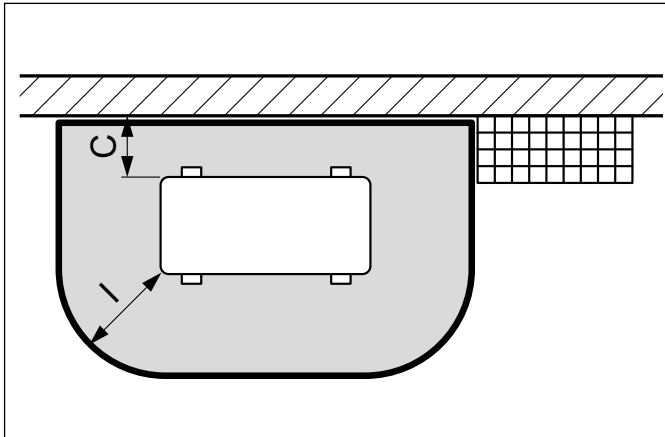
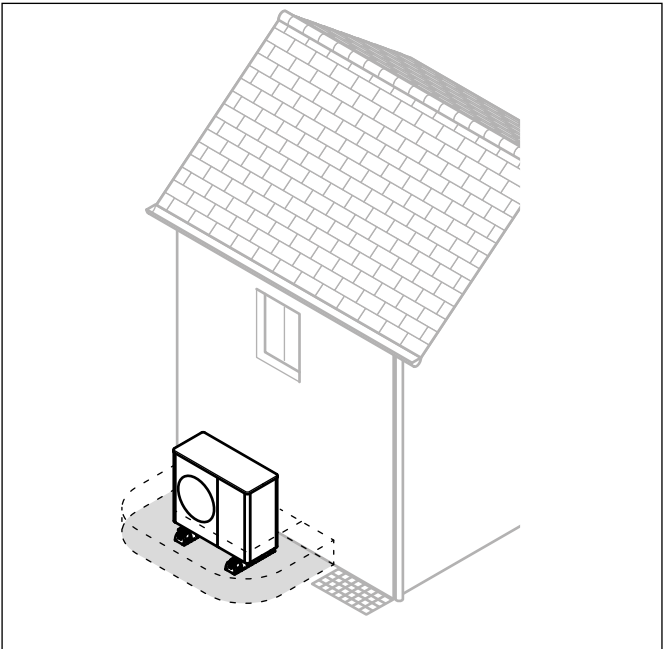
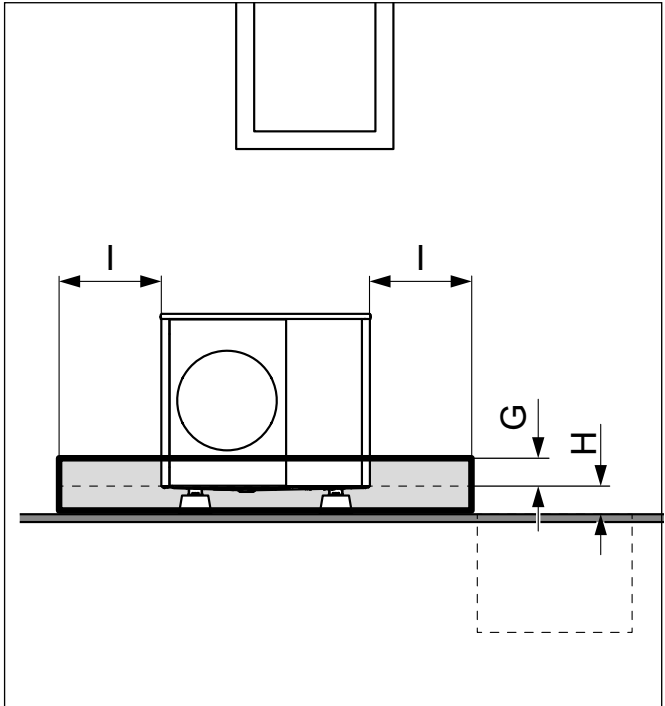
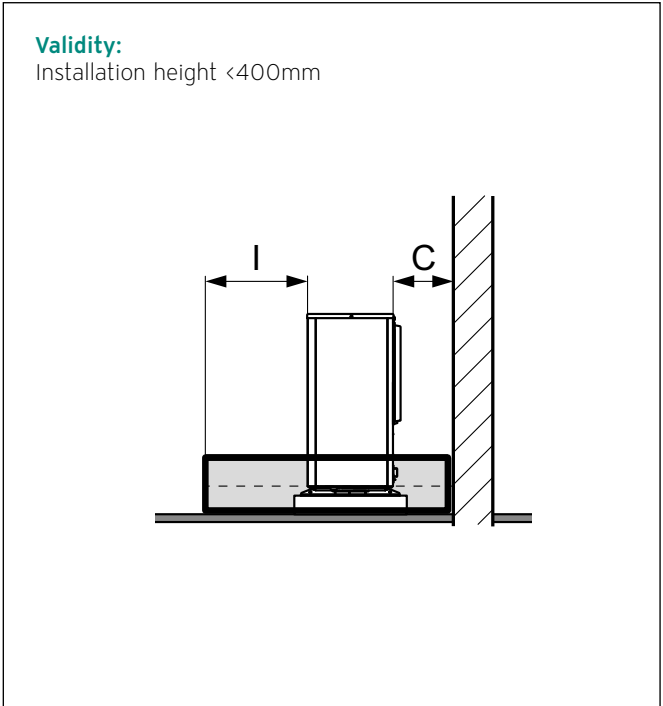
\* 490mm (including back plate and mounting brackets).

Dimensions and clearances



| aroTHERM plus | Unit | Dimension A |
|---------------|------|-------------|
| 3.5kW         | mm   | 765         |
| 5kW           | mm   | 765         |
| 7kW           | mm   | 965         |
| 10kW          | mm   | 1565        |
| 12kW          | mm   | 1565        |

| minimum clearances | Unit | Heating mode | Heating and cooling mode |
|--------------------|------|--------------|--------------------------|
| A                  | mm   | 100          | 100                      |
| B                  | mm   | 1000         | 1000                     |
| C                  | mm   | 200          | 250                      |
| D                  | mm   | 500          | 500                      |
| E                  | mm   | 600          | 600                      |



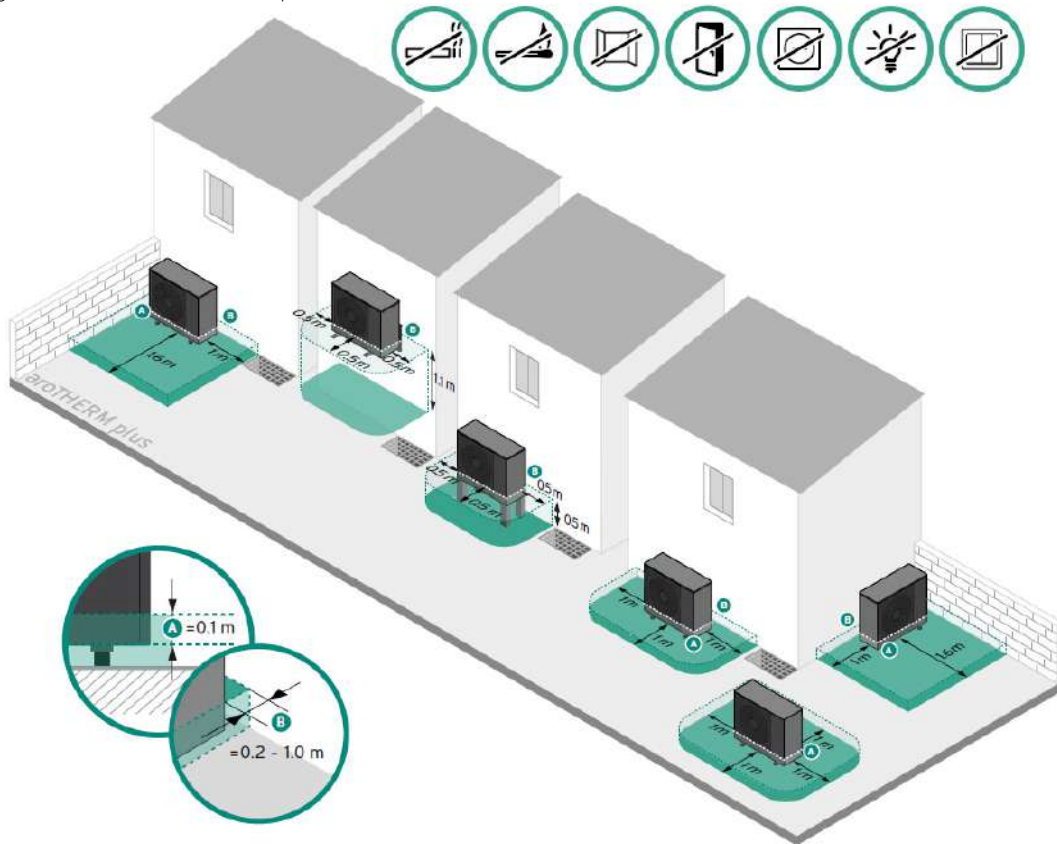
| minimum clearances | With or without base cover |
|--------------------|----------------------------|
| C                  | See table above            |
| G                  | 100mm                      |
| H                  | <400mm                     |
| I                  | 1000mm                     |

### A safe space for carefree operation

When placing the unit you must be aware of drains and openings.

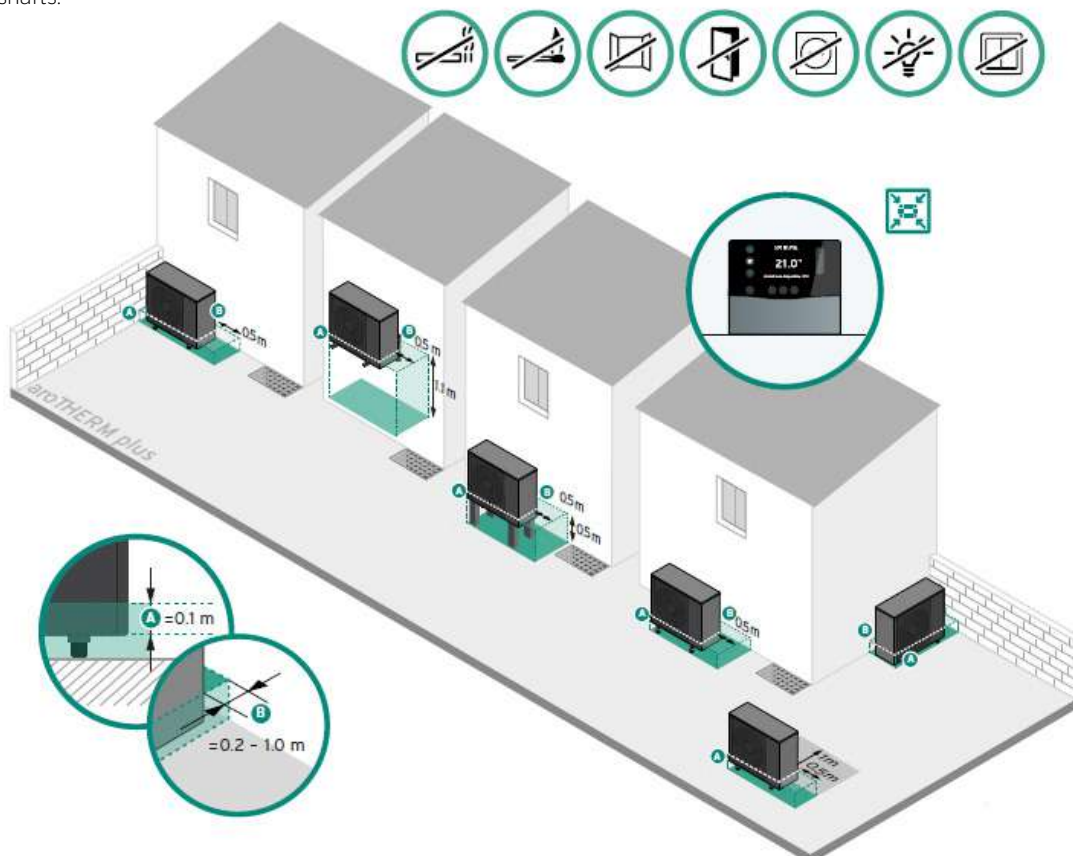
In the unlikely event of a refrigerant leak, the gas needs to be allowed to disperse to stop the risk of gas becoming lit.

Follow the diagrams below to ensure adequate clearance.



### Optimised spacing for safe installation (Flexible Space Function activated)

The Flexible Space Function delivers maximum siting flexibility with the significant reduction of the protection zone. Once activated\*, this allows free positioning near to doors, power outlets, windows or basement shafts.



\*Activated in the installer settings.

# aroTHERM split

Air source heat pump



## Overview

The aroTHERM split has been designed for quick and flexible installation. aroTHERM split consists of two modules, an indoor wall-mounted unit and an outdoor unit. The heat pump has various output sizes to cater for different types of property, with 3.5, 5, 7, 10 and 12kW models available. Heat pump outputs are sized for the heating requirement of the individual property which is why they have smaller outputs than combi boilers (which focus on hot water heating).

The aroTHERM split is extremely quiet. From just three metres away, the acoustic pressure level is less than 30 dB(A). All aroTHERM heat pumps are impressively quiet in operation and are Quiet Mark certified. To get the best performance out of your heat pump, a system approach is required to ensure that all elements of your customers property work in harmony.

## Features & benefits



### Easy installation

Designed with improved transport and handling so it can be installed and commissioned in one day.



### Sound Safe System

Quiet Mark certified, providing exceptionally quiet operation and allowing flexible siting options.



### A+++ ErP rating

Highly efficient for lower running costs.



### Standard footprint

All outputs have the same footprint for simplified specification and installation.



### App based proprietary control measure

With installation wizard for easy set-up and weather compensation as standard, all controlled via a smartphone.



### Pre-charged 15 metre pipe

The outdoor unit can be discreetly installed, wall-mounted or floor-standing, depending on the household's outdoor space it can even be installed up to 25m away from your customers property.



### Flexible energy solution

Can link with other appliances such as solar PV to reduce running costs even further.

| Technical data                                                                   | Unit        | 3.5kW                                                                                 | 5kW | 7kW               | 10kW<br>(230V)      | 12kW<br>(230V) | 10kW<br>(400V)                    | 12kW<br>(400V) |
|----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|-----|-------------------|---------------------|----------------|-----------------------------------|----------------|
| General                                                                          |             |                                                                                       |     |                   |                     |                |                                   |                |
| Dimensions (H x W x D)                                                           | mm          | 765 x 1,100 x 450                                                                     |     | 965 x 1,100 x 450 | 1,565 x 1,100 x 450 |                |                                   |                |
| Weight, ready for operation                                                      | kg          | 92.2                                                                                  |     | 106.3             | 162.2               |                | 181.5                             |                |
| Connection technology, refrigerant pipe                                          |             | Flared                                                                                |     |                   |                     |                |                                   |                |
| Rated voltage                                                                    |             | 230 V (+10%/-15%), 50 Hz, 1~/N/PE                                                     |     |                   |                     |                | 400 V (+10%/-15%), 50 Hz, 3~/N/PE |                |
| Rated current, maximum                                                           | A           | 11.5                                                                                  |     | 14.9              | 21.3                |                | 13.5                              |                |
| Fuse size                                                                        | A           | 16                                                                                    |     |                   | 25                  |                | 16                                |                |
| Fuse type                                                                        |             | Characteristic C, slow-blow, single-pole switching                                    |     |                   |                     |                |                                   |                |
| RCD type                                                                         |             | Type B rated to 20kHz or greater and with a minimum trigger point of 150mA above 1kHz |     |                   |                     |                |                                   |                |
| eBUS (2-core communication cable)                                                | mm²         | 0.75                                                                                  |     |                   |                     |                |                                   |                |
| Maximum length eBUS cable (polarity sensitive)                                   | m           | 50                                                                                    |     |                   |                     |                |                                   |                |
| IP rating                                                                        |             | IP 15 B                                                                               |     |                   |                     |                |                                   |                |
| Fan power consumption                                                            | W           | 50                                                                                    |     |                   |                     |                |                                   |                |
| Fan quantity                                                                     |             | 1                                                                                     |     |                   | 2                   |                |                                   |                |
| Fan air flow, maximum                                                            | m³/h        | 2300                                                                                  |     |                   | 5100                |                |                                   |                |
| Heating pump, power consumption                                                  | W           | 2 - 50                                                                                |     |                   | 3 - 87              |                |                                   |                |
| Refrigerant circuit                                                              |             |                                                                                       |     |                   |                     |                |                                   |                |
| Refrigerant pipe material                                                        | m           | Copper                                                                                |     |                   |                     |                |                                   |                |
| Minimum basic length of refrigerant pipe                                         | m           | 3                                                                                     |     |                   |                     |                |                                   |                |
| Basic length of the refrigerant pipe with outdoor unit above indoor unit maximum | m           | 40                                                                                    |     |                   |                     |                |                                   |                |
| Permissible height difference, outdoor unit above the indoor unit                | m           | 30                                                                                    |     |                   |                     |                |                                   |                |
| Basic length of the refrigerant pipe with indoor unit above outdoor unit maximum | m           | 25                                                                                    |     |                   |                     |                |                                   |                |
| Permissible height difference, indoor unit above the outdoor unit                |             | 10                                                                                    |     |                   |                     |                |                                   |                |
| Refrigerant pipe connection type                                                 |             | Flared                                                                                |     |                   |                     |                |                                   |                |
| Fluid type                                                                       |             | R410A                                                                                 |     |                   |                     |                |                                   |                |
| Fluid fill quantity                                                              | kg          | 1.5                                                                                   |     | 2.39              | 3.6                 |                |                                   |                |
| Refrigerant, Global Warming Potential (GWP)                                      |             | 2088                                                                                  |     |                   |                     |                |                                   |                |
| CO <sub>2</sub> equivalent                                                       | t           | 3.13                                                                                  |     | 4.99              | 7.5200              |                |                                   |                |
| Permissible operating pressure                                                   | bar         | 41.5                                                                                  |     |                   |                     |                |                                   |                |
| Compressor type                                                                  |             | Rotary piston                                                                         |     |                   |                     |                |                                   |                |
| Compressor oil type                                                              |             | Specific polyvinyl ether (PVE)                                                        |     |                   |                     |                |                                   |                |
| Compressor, control                                                              |             | Electronic                                                                            |     |                   |                     |                |                                   |                |
| Noise emissions, heating mode                                                    |             |                                                                                       |     |                   |                     |                |                                   |                |
| Sound power, EN 12102, EN 14511 LWA, A7/W35                                      | dB(A)       | 51                                                                                    | 53  | 54                | 58                  | 59             | 58                                |                |
| Sound power, EN 12102, EN 14511 LWA, A7/W55                                      | dB(A)       | 53                                                                                    | 54  |                   | 60                  |                |                                   |                |
| Efficiency                                                                       |             |                                                                                       |     |                   |                     |                |                                   |                |
| Energy efficiency class 35°C                                                     | (A+++ to F) | A+++                                                                                  | A++ |                   | A+++                |                | A++                               |                |
| Energy efficiency class 55°C                                                     | (A+++ to F) | A++                                                                                   | A++ |                   | A++                 |                | A++                               |                |

# uniTOWER

## Integrated hot water solution



### Overview

The unitTOWER contains an integrated 190 litre hot water cylinder and hydraulic components. It is pre-wired for fast and easy installation with the aroTHERM plus to give your customers a fully integrated heating system.

When used in combination with the aroTHERM plus, it will provide the necessary hot water performance your customers require. Alternatively, the wall-hung hydraulic station VWZ MEH 97 can also be combined with a matching hot water cylinder for a full heating system.

### Features & benefits



#### Neat and compact system solution

The compact unit unitTOWER provides integrated expansion vessel, cylinder and diverter valve in a practical design where additional systems can be extended with a range of optimised accessories.



#### The perfect DHW partner for aroTHERM plus

unitTOWER delivers a 25% higher DHW solution with >190 litres hot water per day (40°C).



#### Safe and easy transportation

The split mounting concept of unitTOWER can be installed quickly and easily in 1 day by 2 people and makes transportation easy and installation possible in space restricted areas.



#### Easy to service

unitTOWER offers straightforward installation and maintenance with all major components accessible from the front.



#### Installation wizard

Quick and easy guided set up with the Vaillant installation wizard.



#### High efficiency

Highly efficient delivering lower running costs with ErP rating of A++ for heating and A+ for DHW.

| Technical data                                           | Unit   | uniTOWER (VIH QW 190/7 SE 18L GB) |
|----------------------------------------------------------|--------|-----------------------------------|
| Total storage cylinder capacity                          | l      | 188                               |
| Temperature hot water (maximum - with auxiliary heating) | °C     | 60 - 70                           |
| Dimensions, unpacked (H x W x D)                         | mm     | 1950 x 595 x 600                  |
| Weight, unpacked                                         | kg     | 133.4                             |
| IP rating                                                |        | 10B                               |
| Auxiliary electric heater                                | kW     | 5.5kw (230v/50Hz)                 |
| Heating circuit connections                              | inches | G1                                |
| Heating source connections                               | inches | G 1 ¼                             |
| Rated power, maximum                                     | kW     | 5.5                               |
| Rated current, maximum, 230V                             | A      | 24                                |
| Rated current, maximum, 400V                             | A      | 12                                |
| Minimum operating pressure                               | Bar    | 0.5                               |
| Maximum operating pressure                               | Bar    | 3.0                               |

# flexoTHERM

Multi-source heat pump



## Overview

The flexoTHERM is a versatile heating system that uses heat pump technology to draw natural thermal energy into a building from either the ground, water or air. It comes in heat output sizes for many types of property, 5, 8, 11, 15 and 19kW models available.

The flexoTHERM modular system can be easily adapted. It can be: a ground source heat pump when connected to a ground loop; an air source heat pump when connected to an aroCOLLECT air source brine collector module, or; a water source heat pump when connected to the fluoCOLLECT module.

## Features & benefits



### Up to 7-year extended guarantee

The flexoTHERM comes with a 5-year guarantee as standard. Extendable to 7-years when installed with a Vaillant cylinder and registered on myREWARDS.



### Ability to cascade up to seven flexoTHERM heat pumps

Suitable for larger domestic and commercial properties.



### More power, more efficiency

Integrated EVI super compressor, injects additional refrigerant into the compression cycle.



### Extended capabilities and flexibility

Modular design gives flexoTHERM greater sustainability and flexibility with accessories to enable connection to either air or water sources.



### Exceptionally quiet

With noise levels as low as a modern refrigerator - 42dB(A), flexoTHERM has been Quiet Mark certified (excludes 230V ranges).



### ErP A+++ rating

ErP A+++ rated for both hot water and heating efficiency, when installed using sensoCOMFORT controls to lower your customers energy bills.

| Technical data                                                                                                                              | Unit     | 5kW                                                                                                                                                                  | 8kW  | 11kW | 15kW | 19kW |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Product dimensions (H x W x D)                                                                                                              | mm       | 1183 x 595 x 600                                                                                                                                                     |      |      |      |      |
| Weight, with packaging                                                                                                                      | kg       | 155                                                                                                                                                                  | 170  | 178  | 185  | 197  |
| Weight, without packaging                                                                                                                   | kg       | 145                                                                                                                                                                  | 160  | 168  | 176  | 187  |
| Weight, ready for operation                                                                                                                 | kg       | 151                                                                                                                                                                  | 167  | 175  | 187  | 200  |
| Electrical                                                                                                                                  |          |                                                                                                                                                                      |      |      |      |      |
| Compressor/heating circuit rated voltage                                                                                                    | V / Hz   | 3~/N/PE 400 / 50                                                                                                                                                     |      |      |      |      |
| Control circuit rated voltage                                                                                                               | V / Hz   | 1~/N/PE 230 / 50                                                                                                                                                     |      |      |      |      |
| Auxiliary heater rated voltage                                                                                                              | V / Hz   | 3~/N/PE 400 / 50                                                                                                                                                     |      |      |      |      |
| Power factor                                                                                                                                |          | cos φ = 0.75 - 0.9                                                                                                                                                   |      |      |      |      |
| Required network impedance Zmax with inrush current limiter                                                                                 | Ω        | ≤0.472                                                                                                                                                               |      |      |      |      |
| Fuse type, characteristic C, slow-blow, three-pole switching (disconnection of the three mains connection lines in one switching operation) |          | Design in accordance with the selected connection diagrams                                                                                                           |      |      |      |      |
| Optional on-site residual-current circuit breaker                                                                                           |          | RCCB type A (type A pulse current sensitive residual-current circuit breakers) or RCCB type B (type B universal current sensitive residual-current circuit breakers) |      |      |      |      |
| Inrush current (with inrush current limiter)                                                                                                | A        | ≤ 15                                                                                                                                                                 | ≤ 19 | ≤ 22 | ≤ 26 | ≤ 30 |
| Maximum rated current                                                                                                                       | A        | 19.8                                                                                                                                                                 | 21.2 | 23.4 | 25.2 | 30.4 |
| Max. electrical power consumption of auxiliary heater                                                                                       | kW       | 9                                                                                                                                                                    |      |      |      |      |
| Minimum electrical power consumption                                                                                                        | kW       | 1.4                                                                                                                                                                  | 2.1  | 2.6  | 3.3  | 4.7  |
| Maximum electrical power consumption                                                                                                        | kW       | 11.5                                                                                                                                                                 | 12.8 | 14.1 | 15.6 | 17.8 |
| IP rating                                                                                                                                   |          | IP 10B                                                                                                                                                               |      |      |      |      |
| Energy-related Products at 35°C                                                                                                             | band     | A+++*                                                                                                                                                                |      |      |      |      |
| Energy-related Products at 55°C                                                                                                             | band     | A+++*                                                                                                                                                                |      |      |      |      |
| Hydraulic connection                                                                                                                        |          |                                                                                                                                                                      |      |      |      |      |
| Heating flow / return connection                                                                                                            | BSP male | G 1½"                                                                                                                                                                |      |      |      |      |
| Heat source flow / return connection                                                                                                        | BSP male | G 1½"                                                                                                                                                                |      |      |      |      |
| Central heating water expansion vessel                                                                                                      | BSP male | G ¾"                                                                                                                                                                 |      |      |      |      |
| Heat source circuit / brine circuit                                                                                                         |          |                                                                                                                                                                      |      |      |      |      |
| Brine content of the brine circuit in the heat pump                                                                                         | l        | 2.5                                                                                                                                                                  | 3.1  | 3.6  | 4.5  | 5.3  |
| Minimum operating pressure of brine fluid                                                                                                   | bar      | 0.7                                                                                                                                                                  |      |      |      |      |
| Maximum operating pressure of brine fluid                                                                                                   | bar      | 3                                                                                                                                                                    |      |      |      |      |
| Maximum electrical power consumption, brine circuit pump                                                                                    | W        | 76                                                                                                                                                                   | 76   | 130  | 310  | 310  |
| Heating circuit / building circuit                                                                                                          |          |                                                                                                                                                                      |      |      |      |      |
| Minimum heating circuit operating pressure                                                                                                  | bar      | 0.7                                                                                                                                                                  |      |      |      |      |
| Maximum circuit operating pressure                                                                                                          | bar      | 3.0                                                                                                                                                                  |      |      |      |      |
| Minimum heating mode flow temperature                                                                                                       | °C       | 25                                                                                                                                                                   |      |      |      |      |
| Minimum cooling mode flow temperature                                                                                                       | °C       | 5                                                                                                                                                                    |      |      |      |      |
| Maximum heating mode target flow temperature without auxiliary heater                                                                       | °C       | 65                                                                                                                                                                   |      |      |      |      |
| Maximum heating mode target flow temperature with external auxiliary heater                                                                 | °C       | 75                                                                                                                                                                   |      |      |      |      |
| Maximum electrical power heating circuit pump                                                                                               | W        | 63                                                                                                                                                                   |      |      | 140  |      |

\* Reported efficiency when used with VRC 700 / VRC 720 control.

# aroSTOR

## Domestic hot water heat pump



### Overview

The aroSTOR range of domestic hot water heat pump cylinders include 200 and 270 litre models. It is perfect for additional hot water requirements as a direct replacement for standard cylinders in smaller houses or multi-tenanted buildings, such as blocks of flats.

This heat pump cylinder is incredibly efficient and sustainable, using thermal energy to heat hot water. This thermal energy can be collected via an external air duct, or it can recycle hot air from within the room where it's installed, provided there is sufficient ventilation. The only other energy needed is the electricity to run the appliance.

### Features & benefits



#### Highly energy efficient and reliable

Highly efficient heat pump cylinder with the best possible ErP label of A+.



#### High quality material and components

Standard 2-year guarantee available



#### Extremely quiet operation

Extremely quiet in operation with additional insulation and use of rubber to lower sound levels even more.



#### Hot water on demand

A small footprint and range of 360° air duct accessories offers flexible options for siting of the appliance.



#### 1.2 kW titanium electrical back-up heater

Automatically manages your hot water comfort levels with electrical back up heater for hot water boost (and Legionella protection).



#### Easy to control

aroSTOR heat pumps cylinders come with their own control fixed to the unit. This is a simple turn dial and push button control that has been specifically designed for the aroSTOR.

| Technical data                                                          | Unit             | 200                     | 270  |
|-------------------------------------------------------------------------|------------------|-------------------------|------|
| Dimensions                                                              |                  |                         |      |
| Nominal capacity                                                        | L                | 197.5                   | 269  |
| Product dimensions, height                                              | mm               | 1458                    | 1783 |
| Product dimensions, outer diameter                                      | mm               | 634                     |      |
| Weight, with packaging                                                  | kg               | 75                      | 88   |
| Weight, without packaging (cylinder empty)                              | kg               | 55                      | 68   |
| Weight, ready for operation (cylinder full)                             | kg               | 255                     | 338  |
| Technical data - General                                                |                  |                         |      |
| Cylinder material                                                       |                  | Stainless steel         |      |
| Heat insulation                                                         |                  | Polyurethane foam 50 mm |      |
| Type of electric heater                                                 |                  | Immersion / Ti          |      |
| Refrigerant type                                                        | Refrigerant type | R290                    |      |
| Refrigerant volume                                                      | kg               | 0.15                    |      |
| Minimum permitted air temperature                                       | °C               | -7                      |      |
| Maximum permitted air temperature                                       | °C               | 45                      |      |
| Sound power level LpA (V1/V2)                                           | dB(A)            | 40 / 43                 |      |
| Sound power level LWA (V1)                                              | dB(A)            | 50 / 52                 |      |
| Heat-up time (environmental air temperature: 7°C, extraction cycle: L)  | h                | 6.57                    | 9.26 |
| Thermal losses 55°C                                                     | kW/24H           | 1,61                    | 1,77 |
| DHW temperature range (HP only)                                         | °C               | 30 to 60                |      |
| Maximum temperature of DHW HP inlet domestic water                      | °C               | 70                      |      |
| Minimal air flow range                                                  | m³/h             | 320                     |      |
| Nominal air flow range                                                  | m³/h             | 350                     |      |
| Maximum air flow range (non ducted)                                     | m³/h             | 400                     |      |
| Maximum hot water temperature (HP + back up heater)                     | °C               | 70                      |      |
| Maximum cold inlet pressure                                             | mPa / bar        | 0.6 / 6                 |      |
| Expansion vessel pre-charge                                             | mPa / bar        | 0.3 / 3                 |      |
| Expansion valve pressure setting                                        | mPa / bar        | 0.6 / 6                 |      |
| Maximum pressure of the T&P relief valve                                | mPa / bar        | 0.7 / 7                 |      |
| Maximum temperature of the T&P relief valve                             | °C               | 90                      |      |
| Length of the T&P valve probe                                           | mm               | 900                     | 1245 |
| Kiwa certification number                                               |                  | 1906704/AMD1            |      |
| Electrical                                                              |                  |                         |      |
| Maximum electrical power consumption of compressor and auxiliary heater | W                | 1900                    |      |
| Maximum power consumption compressor only                               | W                | 700                     |      |
| IP rating                                                               |                  | IPX4                    |      |
| Voltage of the product's power supply                                   | V                | 230                     |      |
| Frequency of the product's power supply                                 | Hz               | 50                      |      |
| Maximum fuse size                                                       | A                | 13                      |      |
| Maximum amperage of the power supply circuit                            | A                | 8                       |      |
| Length of the electrical cable supplied                                 | M                | 1.5                     |      |
| Nominal heat output of the electric back-up heater                      | kW               | 1.2                     |      |
| Connections                                                             |                  |                         |      |
| Connections for the hot water circuit                                   | Inch             | ¾ male                  |      |
| Connections T&P valve                                                   | Inch             | ½ female                |      |
| Connections air duct                                                    | mm               | 160                     |      |
| Maximum flexible air duct length                                        | M                | 10                      |      |
| Maximum rigid air duct length                                           | M                | 20                      |      |
| Minimum clearance around cylinder                                       | mm               | 25                      |      |
| Minimum distance at front of cylinder                                   | mm               | 300                     |      |
| Minimum distance above cylinder                                         | mm               | 300                     |      |

# uniSTOR cylinders

## High recovery range



### Overview

Manufactured in Derbyshire specifically for the UK market, our range of high recovery slimline and standard diameter cylinders provides the ultimate performance and reliability. The high-quality, stainless-steel uniSTOR cylinders are available in a wide range of capacities, from 90 to 300 litres. The improved performance ensures that any cylinder can now be paired with any kW heat pump, or heat only or system boilers for a full system solution.

Designed with simplicity and ease of installation in mind, our pre-plumbed models reduce installation time, while the internal expansion vessel and our purpose-designed patented buffer reduces product footprint and allows for more flexible siting.

### Features & benefits



#### 25-year guarantee

2-year parts and labour guarantee, with a 25-year anti-corrosion guarantee on the internal stainless steel tank.



#### Pre-plumbed options available

Reducing installation time.



#### uniSTOR plus features an internal expansion vessel

Quick to install, the neater appearance maximises space in tight installation spaces.



#### Extended heat pump guarantee

myREWARDS members can benefit from guarantees of up to 7 years when a Vaillant heat pump is registered with a uniSTOR\*.



#### Improved reheat times and system efficiency

Large coil surface area maximises heat transfer to ensure connected Vaillant systems run at their optimum efficiency, reducing running costs with increased hot water performance.



#### Front facing connections and pipework

Easy to connect pipework when working in tight spaces reducing time during installation.



#### Labelled connections for simplicity

Easy-to-recognise, giving onsite guidance for installation and maintenance.



#### Capacities suitable for all customers and property requirements

Slimline range available in outputs from 90 to 210 litres. Standard diameter range available in 150 to 300 litre capacities.

# uniSTOR pure

High recovery slimline cylinder  
with external expansion vessel



| Technical data                             | Unit of measure | 90l    | 90l pre-plumbed | 150l   | 150l pre-plumbed | 175l   | 175l pre-plumbed | 210l   | 210l pre-plumbed |
|--------------------------------------------|-----------------|--------|-----------------|--------|------------------|--------|------------------|--------|------------------|
| Outer diameter with insulation             | mm              | 490    |                 |        |                  |        |                  |        |                  |
| Height with insulation                     | mm              | 990    |                 | 1520   |                  | 1745   |                  | 2000   |                  |
| Net weight (empty cylinder)                | kg              | 32.9   | 35.6            | 46.3   | 49.3             | 49.9   | 52.9             | 53     | 58.5             |
| Net weight (filled cylinder)               | kg              | 127.7  | 125.6           | 196.3  | 199.3            | 224.9  | 227.9            | 263    | 258.5            |
| Insulation thickness                       | mm              | 50     |                 |        |                  |        |                  |        |                  |
| Total tank capacity                        | L               | 94.24  |                 | 149.84 |                  | 181.84 |                  | 206.7  |                  |
| Actual capacity (without coil volume)      | L               | 88.4   |                 | 144    |                  | 176    |                  | 199    |                  |
| Hot water capacity / draw off*             | L               | 160.54 |                 | 260.59 |                  | 318.17 |                  | 359.56 |                  |
| Standby losses                             | kWh/24h         | 1.31   |                 | 1.44   |                  | 1.76   |                  | 2.06   |                  |
| Energy-related Products (ErP)              | A++F            | C      |                 |        |                  |        |                  |        |                  |
| Reheat time (70%)*                         | minutes         | 7.39   |                 | 11.45  |                  | 14.07  |                  | 17.45  |                  |
| Coil rating acc. EN 12897                  | kW              | 22.55  |                 |        |                  |        |                  | 28.59  |                  |
| Heat exchanger volume                      | L               | 5.84   |                 |        |                  |        |                  | 7.7    |                  |
| Heat exchanger surface                     | m²              | 1.85   |                 |        |                  |        |                  | 2.4    |                  |
| Primary flow rate                          | l/h             | 2000   |                 |        |                  |        |                  |        |                  |
| Heat exchanger pressure drop               | mbar            | 0.1    |                 |        |                  |        |                  | 0.14   |                  |
| Maximum operating heat circuit temperature | °C              | 85     |                 |        |                  |        |                  |        |                  |
| Quantity of temperature sensor tubes       | qty             | 3      |                 |        |                  |        |                  |        |                  |
| Size of supplied expansion vessel          | L               | 12     |                 |        |                  | 18     |                  |        |                  |
| Immersion heater rating                    | kW              | 3      |                 |        |                  |        |                  |        |                  |
| Immersion heater cable size                | mm              | 1.5    |                 |        |                  |        |                  |        |                  |
| Immersion heater current                   | A               | 13     |                 |        |                  |        |                  |        |                  |

\* Calculation from test EN 12897.

# uniSTOR pure

High recovery standard cylinder  
with external expansion vessel

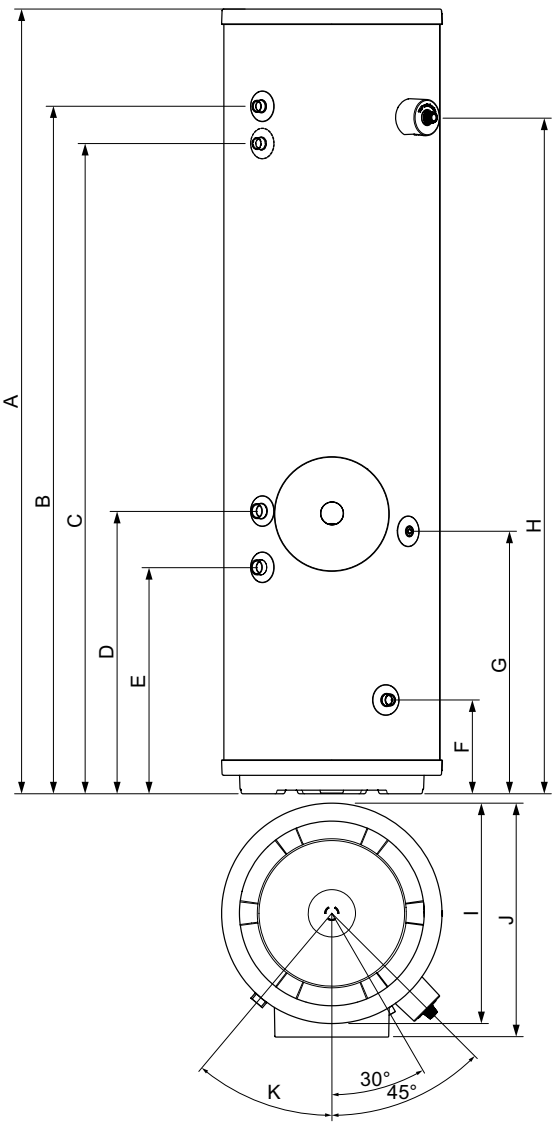


| Technical data                             | Unit of measure | 150l   | 175l   | 210l   | 250l   | 300l   |
|--------------------------------------------|-----------------|--------|--------|--------|--------|--------|
| Outer diameter with insulation             | mm              | 580    |        |        |        |        |
| Height with insulation                     | mm              | 1144   | 1304   | 1549   | 1804   | 2029   |
| Net weight (empty cylinder)                | kg              | 43     | 48     | 53     | 63     | 69     |
| Net weight (filled cylinder)               | kg              | 191    | 223    | 263    | 313    | 348    |
| Insulation thickness                       | mm              | 60     |        |        |        |        |
| Total tank capacity                        | L               | 153.84 | 179.14 | 207.56 | 258.16 | 288.46 |
| Actual capacity (without coil volume)      | L               | 147.6  | 172.9  | 198.2  | 248.8  | 279.1  |
| Hot water capacity / draw off*             | L               | 193.8  | 224.8  | 225.75 | 317.7  | 354.9  |
| Standby losses                             | kWh/24h         | 1.32   | 1.39   | 1.7    | 1.69   | 1.8    |
| Energy-related Products (ErP)              | A++-F           | B      |        |        | C      |        |
| Reheat time (70%)*                         | Minutes         | 13.96  | 16.55  | 14.82  | 17.65  | 19.71  |
| Coil rating acc. EN 12897                  | kWh/24h         | 25.8   |        | 34.5   |        |        |
| Heat exchanger volume                      | L               | 6.24   |        | 9.36   |        |        |
| Heat exchanger surface                     | m²              | 1.88   |        | 2.6    |        |        |
| Primary flow rate                          | l/h             | 2000   |        |        |        |        |
| Heat exchanger pressure drop               | mbar            | 2.75   |        | 420    |        |        |
| Maximum operating heat circuit temperature | °C              | 85     |        |        |        |        |
| Quantity of temperature sensor tubes       | qty             | 3      |        |        |        |        |
| Size of supplied expansion vessel          | L               | 12     | 18     |        | 25     |        |
| Immersion heater rating                    | kW              | 3      |        |        |        |        |
| Immersion heater cable size                | mm              | 1.5    |        |        |        |        |
| Immersion heater current                   | A               | 13     |        |        |        |        |

| Technical data                             | Unit of measure | 150l pre-plumbed | 175l pre-plumbed | 210l pre-plumbed | 250l pre-plumbed | 300l pre-plumbed |
|--------------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Outer diameter with insulation             | mm              | 580              |                  |                  |                  |                  |
| Height with insulation                     | mm              | 1144             | 1304             | 1549             | 1804             | 2029             |
| Net weight (empty cylinder)                | kg              | 48               | 53               | 58               | 68               | 74               |
| Net weight (filled cylinder)               | kg              | 196              | 228              | 268              | 318              | 354              |
| Insulation thickness                       | mm              | 60               |                  |                  |                  |                  |
| Total tank capacity                        | L               | 153.84           | 179.14           | 207.56           | 258.16           | 288.46           |
| Actual capacity (without coil volume)      | L               | 147.6            | 172.9            | 198.2            | 248.8            | 279.1            |
| Hot water capacity / draw off*             | L               | 193.8            | 224.8            | 225.75           | 317.7            | 354.9            |
| Standby losses                             | kWh/24h         | 1.32             | 1.39             | 1.7              | 1.69             | 1.8              |
| Energy-related Products (ErP)              | A+-F            | B                |                  | C                |                  |                  |
| Reheat time (70%)*                         | Minutes         | 13.96            | 16.55            | 14.82            | 17.65            | 19.71            |
| Coil rating acc. EN 12897                  | kWh/24h         | 25.8             |                  | 34.5             |                  |                  |
| Heat exchanger volume                      | L               | 6.24             |                  | 9.36             |                  |                  |
| Heat exchanger surface                     | m²              | 1.88             |                  | 2.6              |                  |                  |
| Primary flow rate                          | l/h             | 2000             |                  |                  |                  |                  |
| Heat exchanger pressure drop               | mbar            | 2.75             |                  | 420              |                  |                  |
| Maximum operating heat circuit temperature | °C              | 85               |                  |                  |                  |                  |
| Quantity of temperature sensor tubes       | qty             | 3                |                  |                  |                  |                  |
| Size of supplied expansion vessel          | L               | 12               | 18               |                  | 25               |                  |
| Immersion heater rating                    | kW              | 3                |                  |                  |                  |                  |
| Immersion heater cable size                | mm              | 1.5              |                  |                  |                  |                  |
| Immersion heater current                   | A               | 13               |                  |                  |                  |                  |

# uniSTOR pure

## Technical dimensions and clearances



|                     | A     | B     | C     | D   | E   | F   | G   | H     | I   | J   | K   |
|---------------------|-------|-------|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Unit of measure     | mm    |       |       |     |     |     |     |       |     |     | deg |
| VIH RW 90/5 C SLES  | 990   | 774   | -     | 629 | 504 | 209 | 584 | 749   | 490 | 520 | 40° |
| VIH RW 150/5 C SLES | 1,520 | 1,304 | -     | 629 | 504 | 209 | 584 | 1,279 | 490 | 520 | 40° |
| VIH RW 175/5 C SLES | 1,745 | 1,530 | -     | 629 | 504 | 209 | 584 | 1,504 | 490 | 520 | 40° |
| VIH RW 210/5 C SLES | 2,000 | 1,784 | 1,664 | 759 | 634 | 209 | 714 | 1,759 | 490 | 520 | 40° |
| VIH RW 150/5 B ES   | 1,139 | 901   | -     | 551 | 426 | 231 | 506 | 871   | 580 | 636 | 35° |
| VIH RW 175/5 B ES   | 1,299 | 1,061 | -     | 551 | 426 | 231 | 506 | 1,036 | 580 | 636 | 35° |
| VIH RW 210/5 C ES   | 1,544 | 1,306 | 1,186 | 681 | 556 | 231 | 636 | 1,281 | 580 | 636 | 35° |
| VIH RW 250/5 C ES   | 1,799 | 1,561 | 1,441 | 681 | 556 | 231 | 636 | 1,526 | 580 | 636 | 35° |
| VIH RW 300/5 C ES   | 2,024 | 1,786 | 1,666 | 681 | 556 | 231 | 636 | 1,781 | 580 | 636 | 35° |

# uniSTOR plus

High recovery slimline cylinder  
with internal expansion vessel



| Technical data                             | Unit of measure | 150l   | 150l pre-plumbed | 175l   | 175l pre-plumbed | 210l   | 210l pre-plumbed |
|--------------------------------------------|-----------------|--------|------------------|--------|------------------|--------|------------------|
| Outer diameter with insulation             | mm              | 490    |                  |        |                  |        |                  |
| Height with insulation                     | mm              | 1520   |                  | 1745   |                  | 2000   |                  |
| Net weight (empty cylinder)                | kg              | 44.2   | 47.2             | 48.6   | 51.6             | 53.4   | 58.9             |
| Net weight (filled cylinder)               | kg              | 190.3  | 193.3            | 223.6  | 226.6            | 238.4  | 243.9            |
| Insulation thickness                       | mm              | 50     |                  |        |                  |        |                  |
| Total tank capacity                        | L               | 151.84 |                  | 177.44 |                  | 205.1  |                  |
| Actual capacity (without coil volume)      | L               | 146    |                  | 171.6  |                  | 197.4  |                  |
| Hot water capacity / draw off*             | L               | 197.88 |                  | 211.22 |                  | 257.86 |                  |
| Standby losses                             | kWh/24h         | 1.39   |                  | 1.71   |                  | 2.01   |                  |
| Energy-related Products (ErP)              | A+-F            | C      |                  |        |                  |        |                  |
| Reheat time (70%)*                         | minutes         | 11.45  |                  | 13.23  |                  | 15.32  |                  |
| Coil rating acc. EN 12897                  | kW              | 22.55  |                  |        |                  | 28.59  |                  |
| Heat exchanger volume                      | L               | 5.84   |                  |        |                  | 7.7    |                  |
| Heat exchanger surface                     | m²              | 1.85   |                  |        |                  | 2.4    |                  |
| Primary flow rate                          | l/h             | 2000   |                  |        |                  |        |                  |
| Heat exchanger pressure drop               | mbar            | 0.1    |                  |        |                  | 0.14   |                  |
| Maximum operating heat circuit temperature | °C              | 85     |                  |        |                  |        |                  |
| Quantity of temperature sensor tubes       | qty             | 3      |                  |        |                  |        |                  |
| Immersion heater rating                    | kW              | 3      |                  |        |                  |        |                  |
| Immersion heater cable size                | mm              | 1.5    |                  |        |                  |        |                  |
| Immersion heater current                   | A               | 13     |                  |        |                  |        |                  |

\* Calculation from test EN 12897.

# uniSTOR plus

High recovery standard diameter  
cylinder with internal  
expansion vessel

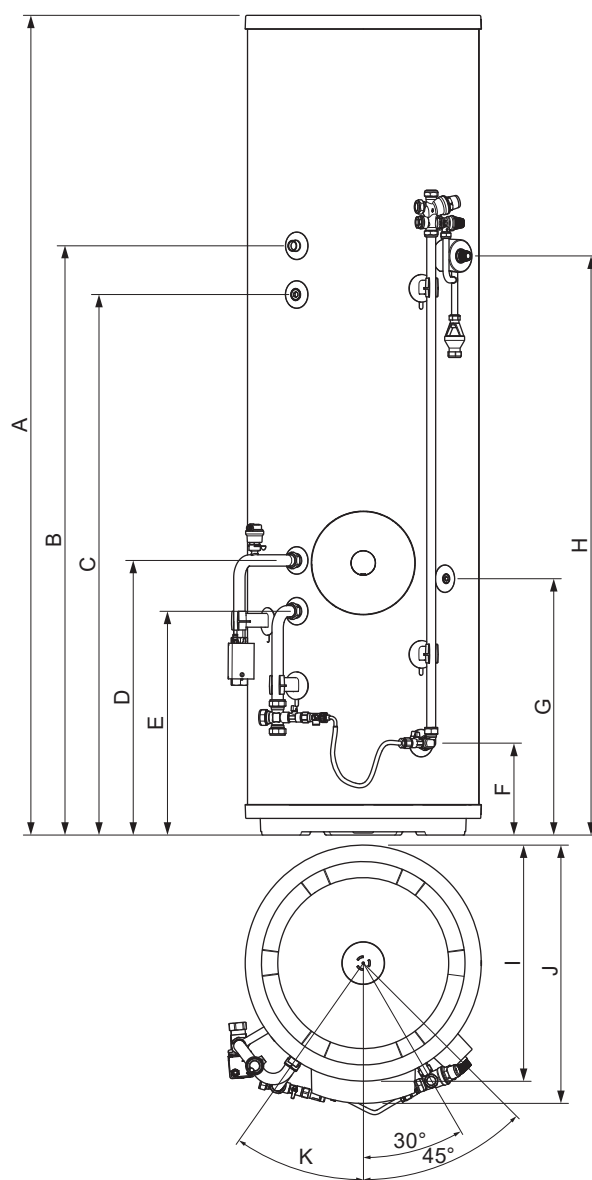


| Technical data                             | Unit of measure | 150l   | 175l   | 210l   | 250l   | 300l   |
|--------------------------------------------|-----------------|--------|--------|--------|--------|--------|
| Outer diameter with insulation             | mm              | 580    |        |        |        |        |
| Height with insulation                     | mm              | 1144   | 1304   | 1549   | 1804   | 2029   |
| Net weight (empty cylinder)                | kg              | 44     | 48     | 53     | 62     | 68     |
| Net weight (filled cylinder)               | kg              | 183    | 206    | 247    | 295    | 329    |
| Insulation thickness                       | mm              | 60     |        |        |        |        |
| Total tank capacity                        | L               | 145.73 | 168.44 | 203.26 | 239.56 | 270.16 |
| Actual capacity (without coil volume)      | L               | 139.49 | 162.2  | 193.9  | 230.2  | 260.8  |
| Hot water capacity / draw off*             | L               | 190.45 | 220.3  | 250.5  | 310.1  | 347.4  |
| Standby losses                             | kWh/24h         | 1.27   | 1.35   | 1.45   | 1.49   | 1.68   |
| Energy-related Products (ErP)              | A++-F           | B      |        |        | C      |        |
| Reheat time (70%)*                         | Minutes         | 13.2   | 14.95  | 13.69  | 16.45  | 18.41  |
| Coil rating acc. EN 12897                  | kWh/24h         | 25.8   |        | 34.5   |        |        |
| Heat exchanger volume                      | L               | 6.24   |        | 9.36   |        |        |
| Heat exchanger surface                     | m²              | 1.88   |        | 2.6    |        |        |
| Primary flow rate                          | l/h             | 2000   |        |        |        |        |
| Heat exchanger pressure drop               | mbar            | 275    |        | 420    |        |        |
| Maximum operating heat circuit temperature | °C              | 85     |        |        |        |        |
| Quantity of temperature sensor tubes       | qty             | 3      |        |        |        |        |
| Size of supplied expansion vessel          | L               | N/A    |        |        |        |        |
| Immersion heater rating                    | kW              | 3      |        |        |        |        |
| Immersion heater cable size                | mm              | 1.5    |        |        |        |        |
| Immersion heater current                   | A               | 13     |        |        |        |        |

| Technical data                             | Unit of measure | 150l pre-plumbed | 175l pre-plumbed | 210l pre-plumbed | 250l pre-plumbed | 300l pre-plumbed |
|--------------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Outer diameter with insulation             | mm              | 580              |                  |                  |                  |                  |
| Height with insulation                     | mm              | 1144             | 1304             | 1549             | 1804             | 2029             |
| Net weight (empty cylinder)                | kg              | 49               | 53               | 58               | 68               | 73.2             |
| Net weight (filled cylinder)               | kg              | 188              | 211              | 252              | 301              | 334              |
| Insulation thickness                       | mm              | 60               |                  |                  |                  |                  |
| Total tank capacity                        | L               | 145.73           | 168.44           | 203.26           | 239.56           | 270.16           |
| Actual capacity (without coil volume)      | L               | 139.49           | 162.2            | 193.9            | 230.2            | 260.8            |
| Hot water capacity / draw off*             | L               | 190.45           | 220.3            | 250.5            | 310.1            | 347.4            |
| Standby losses                             | kWh/24h         | 1.27             | 1.35             | 1.45             | 1.49             | 1.68             |
| Energy-related Products (ErP)              | A++-F           | B                |                  |                  | C                |                  |
| Reheat time (70%)*                         | Minutes         | 13.2             | 14.95            | 13.69            | 16.45            | 18.41            |
| Coil rating acc. EN 12897                  | kWh/24h         | 25.8             |                  | 34.5             |                  |                  |
| Heat exchanger volume                      | L               | 6.24             |                  | 9.36             |                  |                  |
| Heat exchanger surface                     | m²              | 1.88             |                  | 2.6              |                  |                  |
| Primary flow rate                          | l/h             | 2000             |                  |                  |                  |                  |
| Heat exchanger pressure drop               | mbar            | 275              |                  | 420              |                  |                  |
| Maximum operating heat circuit temperature | °C              | 85               |                  |                  |                  |                  |
| Quantity of temperature sensor tubes       | qty             | 3                |                  |                  |                  |                  |
| Size of supplied expansion vessel          | L               | N/A              |                  |                  |                  |                  |
| Immersion heater rating                    | kW              | 3                |                  |                  |                  |                  |
| Immersion heater cable size                | mm              | 1.5              |                  |                  |                  |                  |
| Immersion heater current                   | A               | 13               |                  |                  |                  |                  |

# uniSTOR plus

## Technical dimensions and clearances



|                         | A       | B       | C       | D     | E     | F     | G     | H       | I   | J   | K   |
|-------------------------|---------|---------|---------|-------|-------|-------|-------|---------|-----|-----|-----|
| Unit of measure         | mm      |         |         |       |       |       |       |         |     |     | deg |
| VIH RW 150/5 C SLPPIAES | 1,519.7 | 1,082   | -       | 628.5 | 503.5 | 208.5 | 583.5 | 1,057   | 490 | 520 | 40° |
| VIH RW 175/5 C SLPPIAES | 1,744.7 | 1,214.5 | -       | 628.5 | 503.5 | 208.5 | 583.5 | 1,189.5 | 490 | 520 | 40° |
| VIH RW 210/5 C SLPPIAES | 1,999.7 | 1,469.5 | 1,349.5 | 758.5 | 633.5 | 208.5 | 713.5 | 1,444.5 | 490 | 520 | 40° |
| VIH RW 150/5 B IAES     | 1,139   | 699     | -       | 551   | 426   | 231   | 506   | 675     | 580 | 636 | 35° |
| VIH RW 175/5 B IAES     | 1,299   | 828     | -       | 551   | 426   | 231   | 506   | 803     | 580 | 636 | 35° |
| VIH RW 210/5 B IAES     | 1,544   | 1,073   | 953     | 681   | 556   | 231   | 636   | 1,043   | 580 | 636 | 35° |

# uniSTOR accessories

| Accessory                                                                           | Product name                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Purpose-built buffer              | <p>The buffer store solution has been expertly crafted and cleverly designed. It has been optimised to maximise space within your customer's home as a stackable solution. This unique solution can be installed to sit either below or above the cylinder when required as part of the heat pump system. It is perfect as either a volumiser or as a true buffer store.</p> <p>This accessory offers hydraulic decoupling, stores an additional heating capacity to use at peak demands, de-ices the evaporator without the need for back up heating. The buffer provides additional litres of open system volume to ensure heat pumps run at their peak efficiency. Available as 30L for the slimline range, or 40L for the standard range.</p> |
|    | External expansion vessel         | <p>Included with each uniSTOR pure cylinder, correctly sized to the cylinder capacity, operating at 10 bar pressure.</p> <p>175L - 210L 18 litre expansion vessel<br/>250L - 300L 25 litre expansion vessel</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|   | Tilt protection                   | <p>To ensure stability of the cylinder, particularly when the system includes the stackable buffer, a belt has been included with every cylinder, to secure the cylinder to the wall.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | 490mm plinth<br>580mm plinth      | <p>A new optional accessory that can be used to elevate the cylinder 200mm to allow for access to pipework and electrical connections.</p> <p>Supplied ready to assemble. Can be fitted to base of either cylinder or buffer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | Pressure gauge                    | <p>The pressure gauge provides visibility of the system pressure when the boiler display is remote from the filling loop.</p> <p>Available as an optional accessory.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|  | Titanium immersion heater element | <p>Available to order as an upgrade the immersion heater is more resistant to both chemical attack and scale deposition, increasing both longevity and efficiency. The temperature should never be set higher than 60°C.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  | 3-way valve                       | <p>The 3-way valve is available as an after-market accessory, for use when the heat generator for an existing cylinder is being changed from a boiler, which uses a 2-port safety valve to a heat pump.</p> <p>The valve is designed to return by spring action to the heating port, shutting off the flow to the hot water coil in an emergency situation.</p>                                                                                                                                                                                                                                                                                                                                                                                   |

# System Protection Kit

## Magnetic system filters



### Overview

Today's highly energy-efficient heating systems can only offer optimal performance with dirt-free water.

The unique magnetic field booster technology guarantees unprecedented fast, optimal dirt separation. Even the smallest magnetite particles are removed, maximising system performance as well as protecting costly system components.

Thanks to the ingenious design, collected dirt can be removed quickly and easily.

### Features & benefits



#### Small particle removal

Very small particles, from  $5\mu\text{m}$  (= 0.005 mm) and up are separated and removed.



#### Valveless design

No shut-off valves or bypass required.



#### Constant low pressure drop

Maximising system performance.



#### Low maintenance

Maintenance only takes a few seconds and is not a dirty job compared to a filter solution.



#### Flexible

22mm version suitable for boilers with heating output up to 27kW or 3.5kW and 5kW output heat pumps.

28mm version suitable for boilers with heating output of 28 to 45kW or 7kW and 10kW output heat pumps



#### Instant operation

Instant operation as soon as the system is up and running.



#### Extended guarantee

Provides extended guarantees on selected Vaillant appliances when registered on myREWARDS. Visit myREWARDS for more information.

# Frost protection

It's vital to ensure a heat pump system is protected against unpredictable, extended power failure in cold and wintry weather conditions. A loss in efficiency and potential icing damage can occur if inadequate measures are in place that are unsuitable for known climate conditions and installation location. Vaillant have three recommended solutions to ensure the system is protected from extreme conditions.



## Hydraulic separation

The Vaillant heat exchanger module (MWT 150) allows connected glycol circuits to be separated from heating circuits with only a small proportion of the system is required to be filled with glycol.

The heat exchanger module will prevent the contamination of glycol circuits if radiators are removed or drained and re-filled. In addition, the heat exchanger module is supplied with integral fill and flush points for a simpler installation.



## Anti-freeze valves

Growing in popularity due to cost and ease of installation, anti-freeze valves are designed to protect heat pump systems that are operating with water-based systems. The anti-freeze valves must be fitted at the lowest point of the system and on both the flow and return pipework. The recommendation of the manufacturer is to install 2 frost protection valves per system.

Engineered to discharge when the system water temperature drops to 3°C, preventing ice from forming in the heat pump, the anti-freeze valve opens and releases a small amount of fluid.

Although this solution is not present in the current aroTHERM plus installation Instructions, the use of anti-freeze valves is permitted on UK & IE installations. There is growing momentum from other Vaillant markets to adopt the UK's position on this method of protection and, as a result, we expect the technical documentation to be updated to reflect this in due course.



## System control

There are two levels of frost protection managed by the sensoCOMFORT and appliance interface respectively.

If the outdoor temperature drops down to <4°C, the heat pump activates the monitoring stage for 30 minutes. After the monitoring stage, the frost protection signal is sent to the control, which will activate the system pump(s) and monitoring time of 30 mins is reset.

In case of the flow/return temperatures <6°C the heat pump frost protection is enabled, and the compressor is started until a temperature of 12°C is achieved and then the monitoring time of 30 minutes restarts.

## Glycol - Direct system fill

Although an historical practice, it is not approved that the entire central heating system is filled with glycol. Glycol viscosity has the potential to carry R290 into the property in the highly unlikely event of a refrigerant leak and has been associated with loss in performance and efficiency of the heat pump system. If glycol is your preferred method of frost protection, this should be used in conjunction with the heat exchanger module.



### Reminder

It is the responsibility of the installer to ensure adequate frost protection is in place for the system, considering the local climate conditions and siting location.

# Residual current device

## Residual Current Device

A residual current device (RCD) is a safety device that can help to prevent electric shock by detecting and interrupting any leakage currents in the circuit. In the UK, it is mandatory to use a Type B RCD on any circuit that supplies a heat pump. This is in accordance with the latest electrical regulations.

## Earth leakage and the importance of frequency

Type B RCDs are required by the EN norms that regulate them to safely operate under earth leakage conditions up to 1,000 Hz (1 kHz) frequency. An earth leakage of 30 milliamps (mA) can be dangerous to humans at low frequency (<100Hz). Upwards of this the limit for dangerous earth leakage increases. Their job is to operate whenever excessive current at a certain frequency band is detected.

As the frequency increases, the mA earth leakage required to cause harm or damage the unit also increases, so they are designed to consider the mA leakage and the frequency the leakage occurs at (see table below from one RCD manufacturer, showing how tolerance is built into the unit at varying frequencies - the blue area indicates where the RCD will trip)

**Any Vaillant heat pump must be installed with a type B short time delay RCD rated to 20kHz or greater and with a minimum trigger point of 150mA above 1kHz.**

| RCCB Type                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Residual / Leakage current components |               |                       |             | Transient Resistant   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|-----------------------|-------------|-----------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AC 50Hz                               | AC 50Hz Pulse | Smooth DC             | AC>50Hz<kHz | 3kA/20µS Current Wave |
| AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓                                     | ✗             | ✗                     | ✗           | ✗                     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                                     | ✓             | *<6mA <sup>(1)</sup>  | ✗           | ✗                     |
| AKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓                                     | ✓             | *<6mA <sup>(1)</sup>  | ✗           | ✓                     |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                                     | ✓             | *<10mA <sup>(1)</sup> | ✓           | ✓                     |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                                     | ✓             | ✓                     | ✓           | ✓                     |
| EV                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓                                     | ✓             | ✓>6mA <sup>(2)</sup>  | ✓           | ✓                     |
| <b>1. Type B</b> RCCBs detect DC residual currents and trip if the smooth DC current exceeds the trip threshold.<br><b>*Note: Type A, AKV and F</b> will function safely with smooth DC residual currents present up to the levels indicated but they do not detect smooth DC. Therefore they must not be installed upstream of Type B RCCBs.<br><b>2. Type EV</b> RCCBs trip if the smooth DC current >6mA i.e. They must only be used for protecting a single ECVP. |                                       |               |                       |             |                       |

Source: Doepke CLA 7/16 V-W

As we move to far more efficient control systems within appliances, we see a mix of pulsed DC and smoothed DC currents, as the fan, pump, and inverter are all DC driven. The more important credential to consider is the frequency of the DC leakage, as this can cause nuisance trips with some RCDs, hence our specification of 150mA at 20kHz.

The suggestion to design out the need for an RCD often assumes that its primary role is to protect cables concealed within the fabric of the building, typically mitigated by alternative measures such as metal containment. However, this reasoning does not apply to air source heat pump installations.

Given the typical installation setup of air source heat pumps, such as external ground-mounted locations and the presence of large exposed conductive parts like the metal casing, there is an increased risk of electric shock in the event of a fault. For this reason, an RCD remains essential to be used as the protective device.

Additionally, as air source heat pumps incorporate inverters, there is a potential for DC fault currents. To provide adequate protection, an RCD must be used, and this must be a Type B, capable of detecting and addressing the DC fault currents effectively.

### Leakage current requirements

- Portable appliances: The leakage current requirement for portable appliances is 0.75 milliamps (mA)
- Stationary appliances: The leakage current requirement for stationary appliances is 3.5 mA
- Fixed PC workstations: The leakage current requirement is 2 mA
- Printers: The leakage current requirement is 1 mA
- Photocopiers: The leakage current requirement is 1.5 mA
- Laptops: The leakage current requirement is 0.5 mA with an EMC filter
- Grills, toasters, and portable cooking appliances: The leakage current requirement is 0.75 mA for earthed metal
- Fridges: The leakage current requirement is 1.5 mA for class I
- Dishwashers: The leakage current requirement is 5 mA
- Hobs and ovens: The leakage current requirement is 1 mA or 1 mA/kW of rated power
- Washing machines and tumble dryers: The leakage current requirement is 5 mA
- Electric heat pumps: The leakage current requirement is 10 mA for those accessible to the public
- Floor heating: The leakage current requirement is 0.75 mA or 0.75 mA/kW of rated power

### Requirements for electrical components

Flexible hose lines that are suitable for routing outdoors must be used for the power supply. The specification must comply with the standard 60245 IEC 57 with the abbreviation H05RN-F as a minimum.

The electrical partitions must have a contact gap of at least 3mm.

For the electrical fuse protection, slow-blow fuses with C characteristics must be used.

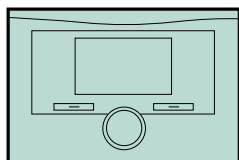
To protect people, type B universal-current-sensitive residual-current circuit breakers must be used if these are stipulated for the installation site. Tripping must be short-time delayed and suitable for the use of inverters (tripping characteristic > 1 kHz).

# Types of controls

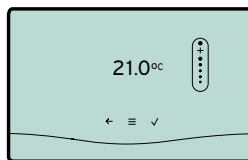


## Sit back, relax and let Vaillant take care of your customer's heating

Vaillant heat pumps are designed to work with sensoCOMFORT, to get the most out of the system, add a myVAILLANT connect internet gateway so your customers can enjoy the myVaillant app while you remotely monitor the system with myVaillant Pro Service.



Programmable thermostats are room thermostats that monitor the temperature. As well as having timer programs, they have lower and higher temperature parameters to ensure the temperature doesn't reach an uncomfortable level. This type of control usually also has a holiday function.



Internet connected controls are controlled remotely and offer the same functionality as programmable room thermostats. These controls have complementary apps\* so they can be controlled via mobile devices and connect to smart devices, e.g. Apple HomeKit.

Visit the relevant app store.

\* Simply search for Vaillant



Scan the QR code for the full range of Vaillant controls



# sensoCOMFORT

## System controls



### Overview

The sensoCOMFORT is Vaillant's latest control for multi-zone heating systems. It's been designed to be simple to install and use, and operates with Vaillant's proprietary eBUS protocol. This ensures all the components of the system can easily communicate with each other to provide optimum system performance. It's perfect for multi-zone gas-fuelled systems, and hybrid, or renewable installations.

The sensoCOMFORT has been designed to be simple to install, with guided commissioning that detects all the components of a system and proposed pre-defined settings.

The sensoCOMFORT is available in a wireless version (RF) that can control up to three heating zones.



#### Boiler modulation

eBUS connection allows the heat pump to modulate, ensuring peak performance and optimum efficiency for a Vaillant heating system.



#### Weather compensating

sensoCOMFORT comes with an outdoor sensor which provides an understanding of the thermal behaviour in and around the property and adjusts the flow temperatures to ensure optimal efficiency.



#### Intuitive Interface

The semi-touch interface provides a simple method of navigating the control to undertake simple tasks.



#### Energy dashboard

Provides enhanced insight into your customer's heating system performance and energy consumption.



#### Time programme assistant

Effortlessly set heating programmes within minutes using the time programme assistant.



#### myVaillant app

With a Vaillant internet gateway, the dedicated app can be downloaded and used to manage heating and hot water requirements on the go.



#### Available wired and wireless

The sensoCOMFORT is available wired and wireless. The wired sensoCOMFORT can support up to 5 heating zones, while the wireless sensoCOMFORT can support up to 3 heating zones. VR 92 thermostats can be added to control individual zones.

# myVAILLANT connect internet gateway with heat pumps



Vaillant heat pumps can be installed with a myVAILLANT connect internet gateway to enable use with the myVaillant app. Not only can the app provide homeowners with the energy consumption, energy yields and efficiencies of their heating system, but it can also enable you to see how your customers heat pump is performing with myVaillant Pro Service.

Monitor your customers systems with myVaillant Pro Service. myVaillant will show you the energy efficiency of your customers heat pump, the energy consumption, heat generated and more. This will enable you to advise your customers on the best way they can use their Vaillant heat pump.

Depending on the heat pump system installed, the VRA 42 or AC adapter three pin plug should be used to power the myVAILLANT connect internet gateway. The VRA 42 can be purchased from your local merchants with a gateway or separately.

**Depending on the heat pump system, either the VRA 42 or AC adapter three pin plug should be used:**

- aroTHERM plus (manufactured after June 2026) with the myVAILLANT connect internet gateway / VR 940f + CIM connector (0010037346)  
aroTHERM plus (manufactured before June 2026) with the myVAILLANT connect + VRA 42 + 3-pin plug (0010038367)
- aroTHERM split with either the VWL 57/5 IS, VWL 77/5 IS or VWL 125/5 IS hydraulic modules can use the VRA 42
- aroTHERM 2/3 with VWZ AI VWL x/2 A should always use the three-pin plug solution
- geoTHERM mini can use the VRA 42
- flexoTHERM should use the three-pin plug solution

Please note: both AC adapter and the VRA 42 are included in the pack (0010038367).

**Visit our YouTube channel for a range of 'how to' videos to support your customers.**



# myVaillant app

## Welcome to the world of smart home heating



### Making your customers' homes more comfortable just got easier

myVaillant is more than just an app. It's a smart home heating ecosystem, that gives your customers even more flexibility and control, making their homes even more comfortable.

Give your customers the ability to manage their heating effortlessly via smart phone or tablet and set routines for optimum comfort, while keeping energy costs under control, with the myVaillant smart home ecosystem. Plus, offer additional peace of mind with the help of Vaillant's smart home services.

### Smart heating for your customers

Manage appliances directly or set routines easily. myVaillant app offers advanced comfort while keeping energy consumption and costs under control.

### Taking comfort to a new level

The myVaillant app for homeowners makes controlling Vaillant appliances smarter, faster, more intuitive and more technologically advanced than ever before.

#### Features & benefits



##### Smart heating

Give customers full control of their appliance, at their fingertips. Anytime, anywhere.



##### Higher reliability

Faster service, less downtime, more peace of mind for you and your customers: in the world of myVaillant, everything is connected.



##### Smart home integration

myVaillant allows users to conveniently adjust the temperature through simple voice commands with Apple HomeKit (only for single heating zone systems).



##### Fit for the future

Smart ecosystem that constantly improves and expands. Frequent updates will add more useful functions and smart ideas.



##### Increased comfort

Always at the exactly right temperature: customers can let the appliance know when they're on their way home - and the perfect climate will welcome them home.



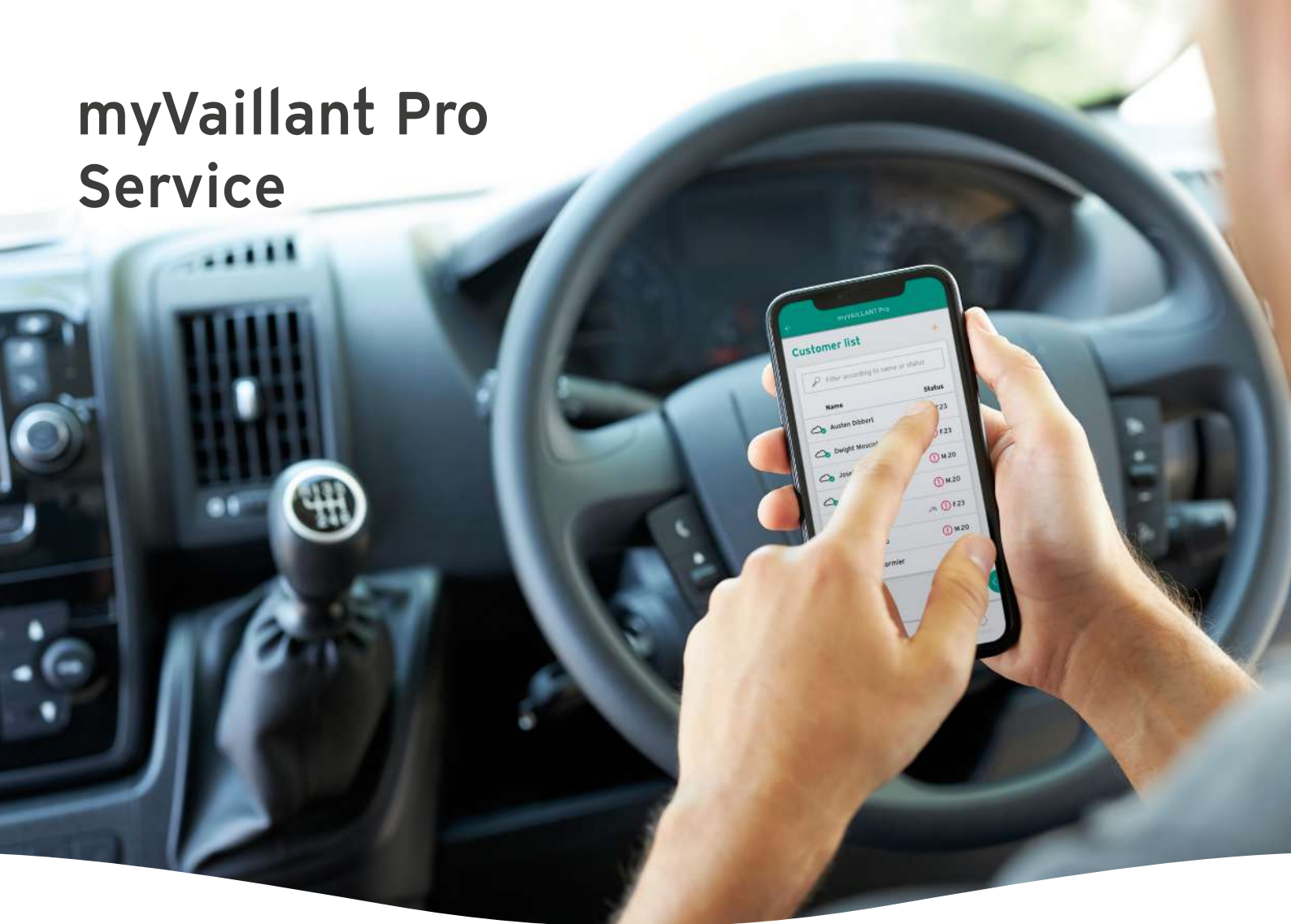
##### Lower consumption

myVaillant can save energy when customers are away and makes sure the temperature is perfect when they return.

Download the myVaillant app.



# myVaillant Pro Service



## Support your customers and your business with myVaillant Pro Service

Vaillant's eBUS communication technology enables Vaillant appliances to talk to one another and offers data on the performance of the heating system and its components. This technology now means that Vaillant can offer improved support by giving you the tools to offer your customers extra levels of service through myVaillant Pro Service, which can be used on both desktop and app.

When paired with the myVAILLANT connect internet gateway, this solution enables remote monitoring of boiler and heat pump installations. You will have access to detailed performance data, fault code history, diagnostic insights, and guided commissioning – all available at the click of a button using your installer credentials to login seamlessly.

## Features & benefits



### Improved service efficiency

Be notified immediately of a fault on a customer's appliance, along with insights on how to rectify it.



### Customer management

Easily manage multiple customers using the secure customer database that offers quick visibility of appliance model, serial number, and manufacturing dates. Review appliance data points and manage customers' time programs set on their thermostat with ease.



### Plannable business

Schedule multiple service and repair visits more efficiently using the failure and spare parts insights provided.



### Detailed fault and status history information

Access service and fault history for each connected appliance, along with the latest fault information available for all supported appliances.



### Intelligent repairs

Improve first-time fix rates by knowing which parts you need before you arrive.



### Guided services

Receive step-by-step installation and commissioning guidance for the current heat pump range. The ultimate guide showing what tools are needed and helpful images for each step.

Download the myVaillant Pro Service app.



# Service and spares support



## Spares and support, year after year

Vaillant is committed to responsible spares provision and provides spares for a minimum of 15 years after production ceases. We have a nationwide network of genuine spares stockists and a dedicated spare parts team to help you identify the parts you require.

Vaillant has even developed an app that helps identify spare parts to make ordering easier. Simply search for Vaillant on Google Play or the App Store.

## Service you can count on

At Vaillant UK, we invest as much of our resources into our service and support as we do in creating our outstanding heating solutions. So you can rest assured that when you choose a Vaillant product, you will be supported by the best service in the industry. Vaillant has specialist teams available to support installers and end-users with all enquiries. We pride ourselves on the efficiency of our service departments, supported by online tools that allow our customers to book appointments for our services for added convenience.

Vaillant has over 250 service engineers. This includes the largest specialist fleet of renewable and commercial systems engineers in the UK. With phone operators available 364 days a year, service and support from Vaillant UK is never far away.



# MORE POWER TO YOU

The supercharged rewards scheme  
from Vaillant.

Sign up to myREWARDS and you can earn great rewards, no matter which system  
you install. Earn cash and points, and unlock exclusive benefits and support including:



Quality tools  
and tech



Industry-leading  
training



Expert advice  
and support



Exclusive VIP  
escapes

Sign up and join  
**myREWARDS** today!  
[myrewards.uk.com](https://myrewards.uk.com)



**myREWARDS**

# Rely on our expertise



## Ensuring effortless operation with an Appliance Function Check or remoteGO mini

### What is an AFC?

An Appliance Function Check (or AFC) is a site visit from a Vaillant engineer to confirm the heat pump is installed and functioning as specified by Vaillant. Giving you the reassurance of its' effortless operation and the best possible efficiency for the end customer. Our on-site Appliance Function Check includes:

- ✓ Full visual checks
- ✓ Temperature checks
- ✓ System checks (visual system check)
- ✓ Test for leaks
- ✓ Test electrical circuits
- ✓ Professional advice on system set up and product use

### What is remoteGO mini?

Take your installations to the next level with remoteGO mini, our virtual Appliance Function Check, powered by video call. Connect with a dedicated technical support engineer for a seamless visual Appliance Function Check, ensuring optimal setup and performance. Utilise Vaillant's heating expertise to deliver the best possible installation for your customers.

A heat pump installer is required to be on site at the time of a remoteGO mini and can take up to 2 hours to complete.

### Our remoteGO mini includes:

- ✓ Full visual checks
- ✓ Temperature checks
- ✓ System checks (visual system check)

|                           | On-site AFC               | remoteGO mini                          |
|---------------------------|---------------------------|----------------------------------------|
| Compatible heat pumps     | All                       | Most* (hybrid systems unavailable)     |
| Internet gateway required | No                        | No                                     |
| On-site engineer          | Yes                       | No                                     |
| Parameters set by         | On-site Vaillant engineer | Installer, guided remotely by Vaillant |
| Price                     | From £249                 | £149                                   |

A full detailed description and pricing for our renewable support options are available through contacting our Renewables Support Team on **0330 100 3640**.

Alternatively, to book an AFC or remoteGO mini, please scan the QR code.



\* Available for heat pump systems with three zones or less.

# System Sales & Design

Vaillant's System Sales & Design team is dedicated to supporting customers every step of the way with bespoke heating system designs for custom build, retrofit and light commercial projects. With a key focus now on transitioning to heat pumps and low carbon heating solutions, our expert team offers a specification service, which includes indicative heat loss calculations and low temperature system designs.

Each member of our team has their specialist field supported by industry experience. So, you can be confident that your needs are being handled by our experts, backed by extensive product knowledge and experience in designing and specifying advanced heating systems.

Whether you're new to heat pumps or would like some additional support in navigating complex project requirements, Vaillant's System Sales & Design team is here to support you every step of the way.

## Our expert team delivers:

- ✓ Estimation of the building space heating load
- ✓ Heat pump sizing and product selection
- ✓ Recommendation and guidance on accessories and system controls
- ✓ List price Vaillant material quotations
- ✓ System schematic diagrams
- ✓ Product and design technical support

**For support with your designs, please submit a request on our online Vaillant Heat Pump Survey request form by scanning the QR code:**



Your Area Sales Manager can put us in touch and let the team know how best to support you. Alternatively, please contact us on: [systemdesignUK@vaillant.com](mailto:systemdesignUK@vaillant.com)

0330 123 1767

Opening hours:

Monday - Thursday 9am - 4:30pm

Friday 9am - 3pm



# Industry leading training for industry leading engineers



## Training

At Vaillant, we pride ourselves on being at the forefront of technology and sharing our expertise. That's why we offer a wide range of training courses to help support our installers and their businesses. Whether you're looking for online, practical or accredited courses, we can help find the right training journey for you.

### Why train with us?



#### Nationwide training facilities

We have training facilities across the UK, all of which are equipped with industry-leading products to support your learning.



#### Experienced training team

The training team have hundreds of years combined expertise between them, so you can rest assured that you're learning from the best in the business.



#### Hands-on learning

We strive to deliver a practical approach to training, with live boilers and heat pump installations for you to work on at every one of our centres of excellence.



#### Courses for all skill levels

We provide training for all skill levels, from apprentices right through to experienced engineers.



#### Loyalty rewards

Earn rewards such as points and exclusive invites to events when you train with us.



#### Ongoing support

Our training team are committed to sharing knowledge, experience and content to support you throughout your Vaillant training journey.

Scan to learn more about  
our training courses



## Compatibility matrix

| Accessories compatibility matrix                   | Article number | aroTHERM plus | aroTHERM split | flexoTHERM | aroSTOR |
|----------------------------------------------------|----------------|---------------|----------------|------------|---------|
| Appliance interface (VWZAI)                        | 0010031644     | ✓             |                |            |         |
| uniTOWER                                           | 0010022093     | ✓             |                |            |         |
| Hydraulic station (VWZ MEH 97/6)                   | 0010023610     | ✓             |                |            |         |
| Fittings pack (DN 20)                              | 0020025387     | ✓             |                |            |         |
| 500mm x 35mm Angled Hoses Primary pro              | 8000025692     | ✓             |                |            |         |
| 500mm x 28mm Angled Hoses Primary pro              | 8000025693     | ✓             |                |            |         |
| 750mm x 35mm Straight Hoses Primary pro            | 8000025694     | ✓             |                |            |         |
| 750mm x 28mm Straight Hoses Primary pro            | 8000025695     | ✓             |                |            |         |
| ACM Fixing Template (Aluminium Composite Material) | 8000033520     | ✓             |                |            |         |
| Card Fixing Template                               | 8000033521     | ✓             |                |            |         |
| aroTHERM heat exchanger module                     | 0020222285     | ✓             |                |            |         |
| aroTHERM inline 6kW back up heater                 | 0020222286     | ✓             |                |            |         |
| aroTHERM plus Floor EPP insulation kit             | 0010027971     | ✓             |                |            |         |
| aroTHERM plus Floor EPP extension kit              | 0010027972     | ✓             |                |            |         |
| uniTOWER decoupling module (large)                 | 0010027973     | ✓             |                |            |         |
| Mono HP connect kit-wall installation (450mm hose) | 0010027974     | ✓             |                |            |         |
| Mono HP connect kit-straight pipe                  | 0010027976     | ✓             |                |            |         |
| uniTOWER connect kit (HP circuit)                  | 0010027979     | ✓             |                |            |         |
| uniTOWER connection kit on wall (UK)               | 0010027981     | ✓             |                |            |         |
| uniTOWER decoupling module (small)                 | 0010027982     | ✓             |                |            |         |
| Snow spacer                                        | 0010027984     | ✓             |                |            |         |
| Spacer, snow Vaillant                              | 0020173403     | ✓             |                |            |         |
| Coding resistor                                    | 0010030974     | ✓             |                |            |         |
| Installation kit expansion vessel                  | 0020009863     | ✓             |                |            |         |
| Protection vessel 18 litres                        | 0020048753     | ✓             |                |            |         |
| Solar discharge vessel                             | 0020145563     | ✓             |                |            |         |
| 750mm flexihose (pair)                             | 0020165288     | ✓             |                |            |         |
| Recirculation pipe set Vaillant                    | 0020170502     | ✓             |                |            |         |
| Recirculation pump Vaillant                        | 0020170503     | ✓             |                |            |         |
| L10 extension set Vaillant                         | 0020170507     | ✓             |                |            |         |
| L11 extension set Vaillant                         | 0020170508     | ✓             |                |            |         |
| L20 extension set Vaillant                         | 0020170509     | ✓             |                |            |         |
| Coding plug, cooling-function                      | 0020269259     | ✓             |                |            |         |
| 18l buffer tank for uniTOWER                       | 0020269273     | ✓             |                |            |         |
| Twin refrigerant pipes 5m 3/8" - 5/8"              | 0020250305     |               | ✓              |            |         |
| Twin refrigerant pipes 10m 3/8" to 5/8"            | 0020250306     |               | ✓              |            |         |
| Twin refrigerant pipes 5m 1/4" to 1/2"             | 0020250307     |               | ✓              |            |         |
| Twin refrigerant pipes 10m 1/4" to 1/2"            | 0020250308     |               | ✓              |            |         |
| Refrigerant pipe 3/8"                              | 0020250309     |               | ✓              |            |         |
| Refrigerant pipe 5/8"                              | 0020250310     |               | ✓              |            |         |
| Refrigerant pipe 1/4"                              | 0020250311     |               | ✓              |            |         |

## Compatibility matrix

| Accessories compatibility matrix            | Article number | aroTHERM plus | aroTHERM split | flexoTHERM | aroSTOR |
|---------------------------------------------|----------------|---------------|----------------|------------|---------|
| Refrigerant pipe 1/2"                       | 0020250312     |               | ✓              |            |         |
| Set rubber feet, small                      | 0020252091     | ✓             |                |            |         |
| Insulation cap, Vaillant (pack of 6)        | 0020243643     | ✓             |                |            |         |
| Wall mounting for insulated walls           | 0020250224     | ✓             |                |            |         |
| Wall mounting for non insulated walls       | 0020250225     | ✓             |                |            |         |
| Rubber feet ground socket set               | 0020250226     | ✓             |                |            |         |
| aroCOLLECT up to 11kW pack                  | 0020221335     |               |                | ✓          |         |
| aroCOLLECT up to 19kW pack                  | 0020221336     |               |                | ✓          |         |
| flexoTHERM brine auto de-aired              | 0020261123     |               |                | ✓          |         |
| VWL 11/4 SA                                 | 0010016718     |               |                | ✓          |         |
| fluoCOLLECT up to 11kW                      | 0010016719     |               |                | ✓          |         |
| fluoCOLLECT up to 19kW                      | 0010016720     |               |                | ✓          |         |
| Passive cooling module up to 11kW           | 0010016721     |               |                | ✓          |         |
| Passive cooling module up to 19kW           | 0010016722     |               |                | ✓          |         |
| Insulation, for automatic air vent          | 0020212523     |               |                | ✓          |         |
| Fittings pack flexoTHERM, straight          | 0020212715     |               |                | ✓          |         |
| Fittings pack flexoTHERM, angle             | 0020212716     |               |                | ✓          |         |
| Chassis, complete bottom (200) for VWL 11/4 | 0020213871     |               |                | ✓          |         |
| Connector, 2x aroCOLLECT VWL 11/4 SA        | 0020205408     |               |                | ✓          |         |
| 100 litre buffer cylinder                   | 0020250167     | ✓             | ✓              | ✓          |         |
| 200 litre buffer cylinder                   | 0020250168     | ✓             | ✓              | ✓          |         |
| Expansion vessel, brine (2l)                | 0010030975     | ✓             | ✓              | ✓          |         |
| 45 litre buffer                             | 0010038365     | ✓             | ✓              | ✓          |         |
| Buffer                                      | 8000011534     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 300 litre                  | 0010015130     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 500 litre                  | 0010015131     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 800 litre                  | 0010039300     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 1,000 litre                | 0010039301     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 1,500 litre                | 0010039302     | ✓             | ✓              | ✓          |         |
| allSTOR plus VPS 2,000 litre                | 0010039303     | ✓             | ✓              | ✓          |         |
| Temperature sensor VR 10                    | 0000306787     | ✓             | ✓              | ✓          |         |
| VDM 25 1" mixing pump                       | 0020191788     | ✓             | ✓              | ✓          |         |
| VDM 20 3/4" mixing pump group               | 0020191813     | ✓             | ✓              | ✓          |         |
| VDM 15 1/2" mixing pump group               | 0020191814     | ✓             | ✓              | ✓          |         |
| VDM 10 pump group without mixer             | 0020191817     | ✓             | ✓              | ✓          |         |
| Compression ring set G3/4" x 22/18mm VG     | 0020193231     | ✓             | ✓              | ✓          |         |
| Filter, 22mm System Protection Kit          | 0020278309     | ✓             | ✓              | ✓          |         |
| Filter, 28mm System Protection Kit          | 0020278310     | ✓             | ✓              | ✓          |         |
| Elbow 90 - D 160mm                          | 0020205773     |               |                |            | ✓       |
| Insulated duct - D 160 mm - L=10m           | 0020205774     |               |                |            | ✓       |
| Twin flue kit aroSTOR VWL 290               | 0020205775     |               |                |            | ✓       |
| Automatic air vent, G1 1/2"                 | 0020212521     |               |                |            | ✓       |

## Article numbers

| Heat pumps                             | Article number |
|----------------------------------------|----------------|
| flexoTHERM 5kW                         | 0020257358     |
| flexoTHERM 8kW                         | 0020257359     |
| flexoTHERM 11kW                        | 0020257360     |
| flexoTHERM 15kW (400v)                 | 0020257361     |
| flexoTHERM 19kW (400v)                 | 0020257362     |
| flexoTHERM 5kW (400v)                  | 0020257363     |
| flexoTHERM 8kW (400v)                  | 0020257364     |
| flexoTHERM 11kW (400v)                 | 0020257365     |
| aroCOLLECT up to 11kW pack             | 0020221335     |
| aroCOLLECT up to 19kW pack             | 0020221336     |
| aroTHERM plus 3.5kW                    | 8000049526     |
| aroTHERM plus 5kW                      | 8000049527     |
| aroTHERM plus 7kW                      | 8000049528     |
| aroTHERM plus 10kW                     | 8000049517     |
| aroTHERM plus 12kW                     | 8000049518     |
| aroTHERM plus 10kW (400v)              | 8000049529     |
| aroTHERM plus 12kW (400v)              | 8000049530     |
| Heat pump interface                    | 8000044872     |
| Hydraulic station                      | 8000024566     |
| uniTOWER                               | 8000024615     |
| aroTHERM split 3kW                     | 0010031875     |
| aroTHERM split 5kW                     | 0010031876     |
| aroTHERM split 7kW                     | 0010031877     |
| aroTHERM split 10kW                    | 0010031878     |
| aroTHERM split 12kW                    | 0010031879     |
| aroSTOR 200ltr                         | 0010031862     |
| aroSTOR 270ltr                         | 0010031863     |
| Cylinders                              | Article number |
| uniSTOR pure 90l slimline non-plumbed  | 8000011504     |
| uniSTOR pure 150l slimline non-plumbed | 8000011505     |
| uniSTOR pure 175l slimline non-plumbed | 8000011506     |
| uniSTOR pure 210l slimline non-plumbed | 8000011507     |
| uniSTOR plus 150l slimline non-plumbed | 8000011633     |
| uniSTOR plus 175l slimline non-plumbed | 8000011634     |
| uniSTOR plus 210l slimline non-plumbed | 8000011635     |
| uniSTOR plus 150l slimline pre-plumbed | 8000011620     |
| uniSTOR plus 175l slimline pre-plumbed | 8000011621     |
| uniSTOR plus 210l slimline pre-plumbed | 8000011622     |
| uniSTOR pure 90l slimline pre-plumbed  | 8000011508     |
| uniSTOR pure 150l slimline pre-plumbed | 8000011509     |
| uniSTOR pure 175l slimline pre-plumbed | 8000011510     |
| uniSTOR pure 210l slimline pre-plumbed | 8000011511     |
| Buffer                                 | 8000011534     |
| Standard diameter buffer               | 8000011528     |
| uniSTOR pure 150l standard diameter    | 8000011512     |
| uniSTOR pure 175l standard diameter    | 8000011513     |

| Cylinders                                                     | Article number |
|---------------------------------------------------------------|----------------|
| uniSTOR pure 210l standard diameter                           | 8000011514     |
| uniSTOR pure 250l standard diameter                           | 8000011515     |
| uniSTOR pure 300l standard diameter                           | 8000011516     |
| uniSTOR pure 150l standard diameter pre-plumbed               | 8000011517     |
| uniSTOR pure 175l standard diameter pre-plumbed               | 8000011518     |
| uniSTOR pure 210l standard diameter pre-plumbed               | 8000011519     |
| uniSTOR pure 250l standard diameter pre-plumbed               | 8000011520     |
| uniSTOR pure 300l standard diameter pre-plumbed               | 8000011521     |
| uniSTOR plus 150l standard diameter                           | 8000012315     |
| uniSTOR plus 175l standard diameter                           | 8000012316     |
| uniSTOR plus 210l standard diameter                           | 8000012317     |
| uniSTOR plus 250l standard diameter                           | 8000012318     |
| uniSTOR plus 300l standard diameter                           | 8000012319     |
| uniSTOR plus 150l standard diameter pre-plumbed               | 8000012320     |
| uniSTOR plus 175l standard diameter pre-plumbed               | 8000012321     |
| uniSTOR plus 210l standard diameter pre-plumbed               | 8000012322     |
| uniSTOR plus 250l standard diameter pre-plumbed               | 8000012323     |
| uniSTOR plus 300l standard diameter pre-plumbed               | 8000012324     |
| Cylinder accessories                                          | Article number |
| Plinth 490mm                                                  | 8000011653     |
| Plinth 580mm                                                  | 8000011654     |
| Titanium Heater 3kW slimline D490                             | 8000011661     |
| Pressure gauge                                                | 8000011817     |
| 3-way valve                                                   | 0020236141     |
| Connected products                                            | Article number |
| myVAILLANT connect internet gateway + VRA 42                  | 0010038367     |
| myVAILLANT connect internet gateway / VR 940f + CIM connector | 0010037346     |
| Weather compensated controls                                  | Article number |
| sensoCOMFORT                                                  | 0020260921     |
| sensoCOMFORT RF                                               | 0020260937     |
| VR 92                                                         | 0020260925     |
| VR 92f                                                        | 0020260940     |
| VRC 700                                                       | 0020184838     |
| VRC 700f                                                      | 0020231564     |
| VR 91                                                         | 0020171334     |
| VR 91f                                                        | 0020231566     |
| Wiring centres                                                | Article number |
| VR 70                                                         | 0020184844     |
| VR 71                                                         | 0020184847     |

## Article numbers

| Accessories                                        | Article number |
|----------------------------------------------------|----------------|
| H bracket                                          | 0010048535     |
| VRC 693                                            | 0020266791     |
| VR 20                                              | 0020028537     |
| VRA 42                                             | 0010040289     |
| Heat pump accessories                              | Article number |
| VWZ AI, VWL x/6 MB2                                | 0010031644     |
| VWZ AI indoor unit                                 | 8000044872     |
| uniTOWER plus VIH QW 190/6 E GB MB8                | 0010022093     |
| VWZ MEH 97/6 MB2                                   | 0010023610     |
| aroTHERM heat exchanger module                     | 0020222285     |
| aroTHERM inline 6kW back up heater                 | 0020222286     |
| aroTHERM plus base cover                           | 8000047659     |
| aroTHERM plus rubber feet base cover set 40cm      | 8000044532     |
| aroTHERM plus rubber feet                          | 0020252091     |
| aroTHERM plus snow spacer                          | 8000035192     |
| aroTHERM plus wall bracket (insulated walls)       | 0020250224     |
| aroTHERM plus wall bracket (non-insulated walls)   | 0020250225     |
| Coding resistor                                    | 0020269259     |
| 100 litre buffer cylinder                          | 0020250167     |
| 200 litre buffer cylinder                          | 0020250168     |
| flexoTHERM brine auto de-aired                     | 0020261123     |
| Temperature sensor VR 10                           | 306787         |
| VR 11 (collector sensor)                           | 306788         |
| Manifold for 2 pipe groups                         | 307556         |
| Manifold for 3 pipe groups                         | 307597         |
| VWL 11/4 SA                                        | 0010016718     |
| fluoCOLLECT up to 11kW                             | 0010016719     |
| fluoCOLLECT up to 19kW                             | 0010016720     |
| Passive cooling module up to 11kW                  | 0010016721     |
| Passive cooling module up to 19kW                  | 0010016722     |
| Mono HP connect kit-ground install                 | 0010027971     |
| Mono HP connect kit-ground install external        | 0010027972     |
| uniTOWER decoupling module (large)                 | 0010027973     |
| Mono HP connect kit-wall installation (450mm hose) | 0010027974     |
| Mono HP connect kit-straight pipe                  | 0010027976     |
| uniTOWER connect kit (HP circuit)                  | 0010027979     |
| uniTOWER connection kit on wall (UK)               | 0010027981     |
| uniTOWER decoupling module (small)                 | 0010027982     |
| Snow spacer                                        | 0010027984     |
| Coding resistor                                    | 0010030974     |
| Expansion vessel, brine (2L)                       | 0010030975     |
| 45 litre buffer                                    | 0010038365     |
| Installation kit expansion vessel                  | 0020009863     |
| Fittings pack (DN 20)                              | 0020025387     |
| Protection vessel 18 litres                        | 0020048753     |

| Heat pump accessories                                                     | Article number |
|---------------------------------------------------------------------------|----------------|
| Filling device, complete                                                  | 0020106265     |
| Solar discharge vessel                                                    | 0020145563     |
| Filling device, mobile GB                                                 | 0020145706     |
| Pipe kit, Perf AWHP, Vaillant (750mm hose)                                | 0020165288     |
| Filling pump solar (UK-version)                                           | 0020166591     |
| Recirculation pipe set Vaillant                                           | 0020170502     |
| Recirculation pump Vaillant                                               | 0020170503     |
| L10 extension set Vaillant                                                | 0020170507     |
| L11 extension set Vaillant                                                | 0020170508     |
| L20 extension set Vaillant                                                | 0020170509     |
| Spacer, snow Vaillant                                                     | 0020173403     |
| Wall bracket for expansion vessel                                         | 0020173592     |
| VDM 25 1" mixing pump                                                     | 0020191788     |
| VDM 20 ¾" mixing pump group with mixer suitable for max flow rate 6.3m³/h | 0020191813     |
| VDM 15 ½" mixing pump group with mixer suitable for max flow rate 2.5m³/h | 0020191814     |
| VDM 10 pump group without mixer                                           | 0020191817     |
| Compression ring set G3/4 x 22/18mm VG                                    | 0020193231     |
| Connector, 2x aroCOLLECT VWL 11/4 SA                                      | 0020205408     |
| Elbow 90 - D 160mm                                                        | 0020205773     |
| Insulated duct - D 160 mm - L=10m                                         | 0020205774     |
| Twin flue kit aroSTOR VWL 290                                             | 0020205775     |
| Automatic air vent, G1 1/2"                                               | 0020212521     |
| Insulation, for automatic air vent                                        | 0020212523     |
| Fittings pack flexoTHERM, straight                                        | 0020212715     |
| Fittings pack flexoTHERM, angle                                           | 0020212716     |
| Chassis, complete bottom (200) for VWL 11/4                               | 0020213871     |
| Insulation cap, Vaillant (x6)                                             | 0020243643     |
| Rubber feet ground socket set                                             | 0020250226     |
| Twin refrigerant pipes 5m 3/8" - 5/8"                                     | 0020250305     |
| Twin refrigerant pipes 10m 3/8" to 5/8"                                   | 0020250306     |
| Twin refrigerant pipes 5m 1/4" to 1/2"                                    | 0020250307     |
| Twin refrigerant pipes 10m 1/4" to 1/2"                                   | 0020250308     |
| Refrigerant pipe 3/8"                                                     | 0020250309     |
| Refrigerant pipe 5/8"                                                     | 0020250310     |
| Refrigerant pipe 1/4"                                                     | 0020250311     |
| Refrigerant pipe 1/2"                                                     | 0020250312     |
| Set rubber feet, small                                                    | 0020252091     |
| SAE connector set 1/4"                                                    | 0020252878     |
| SAE connector set 3/8"                                                    | 0020252879     |
| SAE connector set 1/2"                                                    | 0020252880     |
| SAE connector set 5/8"                                                    | 0020252881     |
| SAE connector, calibration set                                            | 0020252903     |
| 18l buffer tank for uniTOWER                                              | 0020269273     |

# Contacts

## Sales enquiries

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

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