

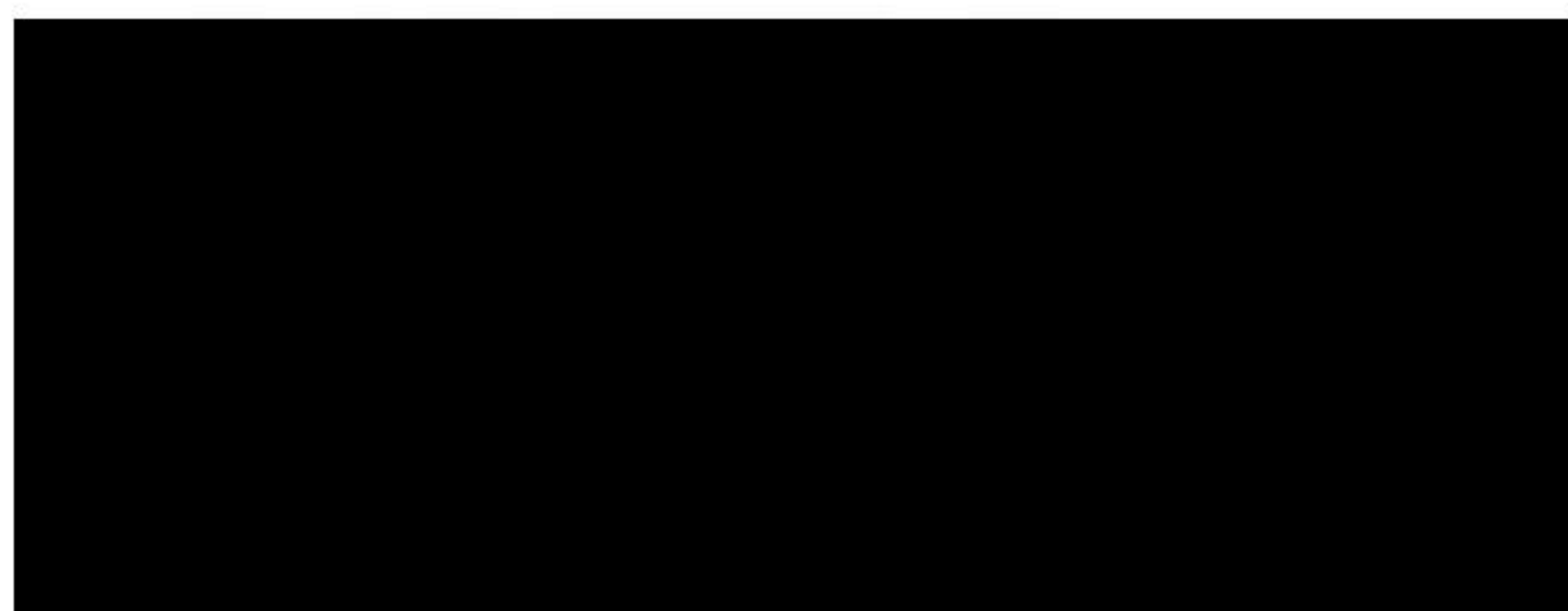
Statement of Compliance

Product Type:
aroTHERM plus Heat Pump Range ("Products")

This Statement of Compliance is prepared by Vaillant Group UK Limited, with registered office at Nottingham Road, Belper, Derbyshire, DE56 1JT, in accordance with the Product Security and Telecommunications Infrastructure Act 2022 and the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 (the "**Regulations**").

Vaillant Group UK Limited declare that, in our opinion, the Products comply with the applicable security requirements in Schedule 1 of Regulations.

Please note security updates are not applicable for this product range.



Mark Wilkins
Training & Technologies Director
Vaillant Group UK Ltd



Saunier Duval



Bulex



Hermann
Saunier Duval





Heating



Hot water



Renewables

aroTHERM plus

Air source heat pump

Dimensions

Model	Width	Height	Depth
aroTHERM plus 3.5kW aroTHERM plus 5kW	1100mm	765mm	450mm
aroTHERM plus 7kW		965mm	
aroTHERM plus 10kW aroTHERM plus 12kW		1565mm	



Overview

The aroTHERM plus is our flagship air source heat pump range, available in a wide range of heat output sizes for many types of property with 3.5, 5, 7, 10 and 12kW models available.

This heat pump continues to win awards around the world for its innovative use of the refrigerant R290, which gives it a Global Warming Potential (GWP) of just three. This refrigerant is already used in household appliances all over the world and offers many advantages over refrigerants traditionally used in heat pumps. Coupled with market leading technical features that improve efficiency and deliver higher flow temperatures, the aroTHERM plus is perfect for new and existing heating systems (including hybrid). It's also impressively quiet in operation and has been certified by Quiet Mark*, making it suitable for use even in densely built-up terraced housing estates.

Features & benefits



High performance ASHP range

With a flow temperature of up to 75°C, the aroTHERM plus can deliver more usable hot water with high hot water comfort levels whilst removing the need for direct electric immersion to sterilise the water, protecting from legionella.



Super quiet operation

From just three metres away, the acoustic pressure level is less than 30 dB(A) for easier planning and siting.



Higher energy-efficiency performance

With a SCoP of up to 5.03, the aroTHERM plus is extremely energy efficient, enabling high energy savings against certain fossil fuels.



R290 natural refrigerant with Low GWP

Already fulfilling the next NZEB requirements, the aroTHERM plus uses monobloc technology with a hermetically sealed refrigerant circuit.



Fully adaptable system approach

The aroTHERM plus can also be combined with photovoltaic systems and integrated into smart power grids (SG-ready), so your customers can enjoy the benefits of variable electricity tariffs.



Quality by design

Suitable for installations less than 150m away from the sea with salt resistant construction C5 class.

* Models 3.5, 5 and 12kW.



Technical data	Unit	3.5kW	5kW	7kW	10kW (230v)	12kW (230v)	10kW (400v)	12kW (400v)
General								
Weight, ready for operation	kg	114		128	194		210	
Connection, heating circuit		G 1 1/4"						
Rated voltage		230 V (+10%/- 15%), 50 Hz, 1~/N/PE					400 V (+10%/-15%), 50 Hz,3~/N/PE	
Rated current, maximum	A	14.3		15.0	23.3		15	
Fuse size	A	16			25		16	
Fuse type		Characteristic C, 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		IP 15 B						
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	3.0			2.5			
Maximum operating pressure	bar	20						
Minimum volume flow	l/h	400		540	995			
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)		3						
CO ₂ equivalent	t	0.0018		0.0027	0.0039			
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, EN 12102, EN 14511 LWA, A7/W35	dB(A)	48		49	51			
Sound power, EN 12102, EN 14511 LWA, A7/W55	dB(A)	48		49	51			
Efficiency								
Energy efficiency class 35°C	(A+++ to F)	A++	A+++					
Energy efficiency class 55°C	(A+++ to F)	A+	A++					
Combination with uniTOWER								
Energy efficiency class	(A+++ to F)	A+		A++				
Energy efficiency class, hot water	(A+ to F)	A		A				

EC declaration of conformity

EC declaration of conformity



Manufacturer <i>Manufacturer</i>	Vaillant GmbH Berghauser Str. 40 42859 Remscheid Germany
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Product description Product description	air/water heat pump air/water heat pump
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Type designation <i>Type designation</i>	VWL 35/6 A 230V S2 VWL 55/6 A 230V S2 VWL 75/6 A 230V S2
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EC declaration of conformity

EC declaration of conformity



The designated products comply with the regulations of the following directives and standards in their currently applicable versions at the time they are issued. This declaration of conformity is issued under the sole responsibility of the manufacturer.

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Low voltage directive 2014/35/EU
Low voltage directive 2014/35/EU

EN 60335-2-40:2003 + A13:2012/AC2013
EN 60335-1:2012 + A15:2021
EN 62233:2008/AC:2008

EMC directive 2014/30/EU
EMC directive 2014/30/EU

EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019
EN 61000-3-3:2013 + A1:2019

Ecodesign directive 2009/125/EC
Ecodesign directive 2009/125/EC

(EU) No. 813/2013
EN 14825:2022
EN 12102-1:2022

RoHS directive 2011/65/EU
RoHS directive 2011/65/EU

Additional applied standards
Additional applied standards

EN 14511:2022

Any unauthorised changes to the supplied products and/or any improper use invalidates this declaration of conformity.

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Remscheid, 01.12.2023

(Place, date)
(Place, date)

i.V. Elmar Fabian Zippel
Director Group R&D Heat Pump Integration ID-I

i. V. L. Christiaans
Head of International Certification and Approval

UK declaration



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Product description	air/water heat pump
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UK declaration



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Electrical Equipment (Safety) Regulations 2016	EN 60335-2-40:2003 + A13:2012/AC2013 EN 60335-1:2012 + A15:2021 EN 62233:2008/AC:2008
Electromagnetic Compatibility Regulations 2016	EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN IEC 61000-3-2:2019 EN 61000-3-3:2013 + A1:2019
The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019	(EU) No. 813/2013 EN 14825:2022 EN 12102-1:2022
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS)	
Additional applied standards	EN 14511:2022

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Remscheid, 01.12.2023

(Place, date)

A handwritten signature in black ink, appearing to read "Elmar Zippel".

i.V. Elmar Fabian Zippel
Director Group R&D Heat Pump Integration ID-I

A handwritten signature in blue ink, appearing to read "i. V. L. Christiaans".

i. V. L. Christiaans
Head of International Certification and Approval