

aroTHERM

Air-to-water heat pump technical specification



- Compact size for easy siting, possible to fit under a standard window (5, 8 and 11kW)
- Quiet operation with sound power as low as 58dBA (5kW) with permitted planning as low as 3 metres
- Blue fin coated evaporator with anti-hydro coating improves performance also gives extra corrosion protection
- VRC 700 weather compensating control as standard, helps make the system as efficient as possible
- MCS accredited (may qualify for government incentives)



■ Heating ■ Hot water ■ Renewables

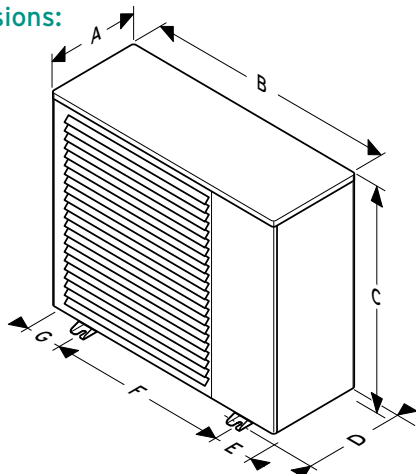
Because  **Vaillant** thinks ahead.

aroTHERM air-to-water heat pump technical data



Article No.	Vaillant parts
0020196231	aroTHERM 5kW pack
0020175478	aroTHERM 8kW pack
0020175479	aroTHERM 11kW pack
0020196232	aroTHERM 15kW pack
0020165288	aroTHERM 750mm flexi hose
0020175140	aroTHERM 600mm anti-vibration feet
0020145563	aroTHERM glycol discharge vessel
0020222287	aroTHERM 40 litre decoupler module
0020222285	aroTHERM inline 6kW back-up heater
0020222286	aroTHERM heat exchanger module
Article No.	aroTHERM Hybrid systems
0020196235	aroTHERM 5kW hybrid
0020178074	aroTHERM 8kW hybrid
0020178075	aroTHERM 11kW hybrid
0020196236	aroTHERM 15kW hybrid
0020196233	aroTHERM 5kW hybrid (for Vaillant boiler)
0020178072	aroTHERM 8kW hybrid (for Vaillant boiler)
0020178073	aroTHERM 11kW hybrid (for Vaillant boiler)
0020196234	aroTHERM 15kW hybrid (for Vaillant boiler)

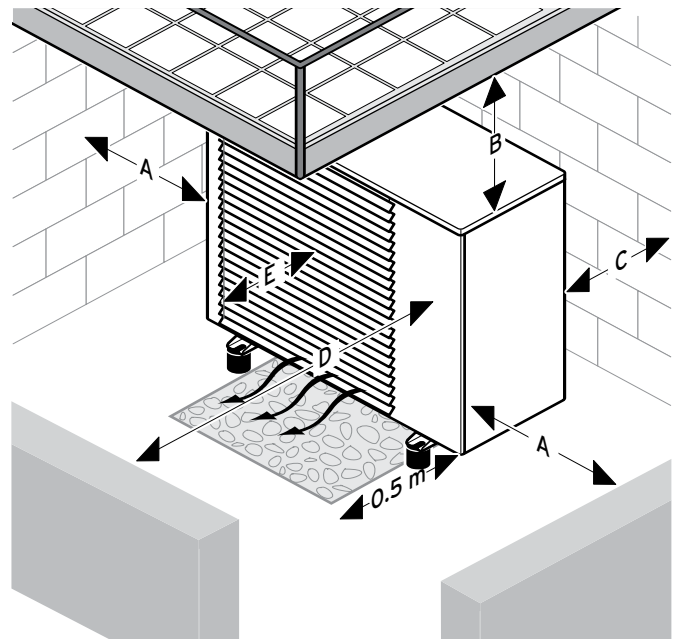
Dimensions:



Dimension (mm)	5kW	8kW	11kW	15kW
A	408	463	463	463
B	980	1103	1103	1103
C	840	975	975	1380
D	386	437	437	437
E	120	162	162	162
F	740	778	778	778
G	120	162	162	162

aroTHERM output and SCoP table									
		35°C flow		40°C flow		45°C flow		50°C flow	
		output kW	SCoP	output kW	SCoP	output kW	SCoP	output kW	SCoP
5kW	-5°C	5.26	4.06	5.33	3.66	5.39	3.25	4.94	3.14
	-3°C	5.66		5.97		6.28		5.68	
	0°C	6.12		6.40		6.68		6.11	
	2°C	6.43		6.71		6.98		6.41	
8kW	-5°C	7.15	4.58	6.46	4.22	5.76	3.86	5.27	3.40
	-3°C	7.70		6.76		5.81		5.27	
	0°C	7.81		7.20		6.58		5.98	
	2°C	8.27		7.74		7.20		6.47	
11kW	-5°C	8.23	3.46	7.70	3.07	7.17	2.68	5.65	2.60
	-3°C	8.42		7.86		7.30		6.00	
	0°C	9.25		8.57		7.88		6.70	
	2°C	9.81		9.02		8.28		7.00	
15kW	-5°C	12.65	3.89	12.07	3.34	11.00	2.79	10.25	2.72
	-3°C	12.90		12.20		11.50		10.65	
	0°C	13.20		12.85		12.40		11.78	
	2°C	14.00		13.55		13.10		12.45	

Clearances:



Clearance	For heating mode
A	> 250mm
B	> 1000mm
C	> 120mm
D	> 600mm
E	> 300mm

aroTHERM		5kW	8kW	11kW	15kW
Heat pump type		Monoblock air/water heat pump			
Flow/return heating connections, heat pump		1¼"			
Product dimensions, width	mm	970	1,103	1,103	1,103
Product dimensions, height	mm	834	975	975	1,375
Product dimensions, depth	mm	408	463	463	463
Net weight	kg	86	102	126	165
Hydraulic lines material		Copper			
Hydraulic connections material		Brass			
Hydraulic seals material		EPDM			
Plate heat exchanger material		AISI 304 stainless steel			
Pump casing material		Painted cast iron			
Pollution rating		2			
Electric connection	V/Hz	230/50			
Fuse type		T4A			
Inverter controller fuse	A/V	HRC 20/550			
Level of protection		IP 25			
Maximum start-up current	A	16		20	25
Maximum current consumption	A	16		20	25
Pump power consumption	W	15 ... 70			6 ... 87
Fan power consumption	W	15 ... 42		15 ... 76	15 ... 76 Note 2 x
Electrical classification		I			
Overvoltage category		II			
Fan rotational speed	rpm	550		700	600
Sound power level for A7W35 according to EN 12102 and EN ISO 9614-1	dB(A)	58	59	65	
Sound power level for A7W45 according to EN 12102 and EN ISO 9614-1	dB(A)	58	59	65	
Sound power level for A7W55 according to EN 12102 and EN ISO 9614-1	dB(A)	58	60	66	
Maximum DHW flow temperature	°C	60	63		
Minimum air temperature (heating and cylinder charging)	°C	-15	-20		
Maximum air temperature (heating)	°C	28			
Maximum air temperature (cylinder charging)	°C	46			
Maximum air flow	m³/h	2,000	2,700	3,400	5,500
ErP rating (@ 35°C)		A++		A+	A++
ErP rating (@ 55°C)		A+	A++	A+	

Heating circuit		5kW	8kW	11kW	15kW
Minimum operating pressure	bar	0.1			
Maximum operating pressure	bar	3.0			
Heating circuit water contents in the heat pump	l	1.1	1.6	2.1	2.7
Minimum heating circuit water contents	l	17	21	35	60
Minimum volume flow rate	l/h	380		540	1,200
Nominal volume flow rate, maximum volume flow rate	l/h	860	1,400	1,900	2,590
Hydraulic pressure difference	mbar	640	450	300	370

Installers

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

To find contact details for your nearest Vaillant Area Sales Representative:

Telephone: 0345 602 0262

Technical Enquiries

Mon - Fri: 8.30am - 5.00pm

Sat: 9.00am - 4.00pm

Telephone: 0330 100 3540

Training Enquiries

Telephone: 0345 601 8885

E-mail: training@vaillant.co.uk

Renewable Service

For renewable products aftersales servicing and commissioning:

Telephone: 0330 100 3540

E-mail: aftersales@vaillant.co.uk



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