



Q V A N T U M



QVANTUM QA/QH

Air-to-water heat pump

The Quantum QA + QH is a high-performance, inverter-controlled air-to-water heat pump designed for maximum energy efficiency. Using a natural refrigerant, it delivers reliable heating and domestic hot water in a sustainable and environmentally friendly way.

Domestic hot water is produced using a flow-through heat exchanger, ensuring efficient, on-demand heat transfer. This design eliminates the risk of legionella and removes the need for additional corrosion protection, regardless of water quality.

HEATING EFFECT:

7kw

11kw

The system is available in two configurations
to suit different heating demands:

QA-9 + QH-175: Suitable for heating requirements up to 7 kW

QA-15 + QH-175: Suitable for heating requirements up to 11 kW



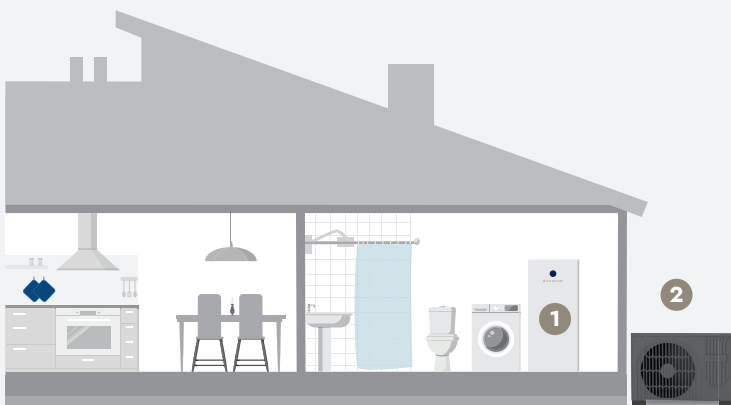
Intuitive user interface

Clear navigation and guided controls make it easy for both installers and end users to manage and optimise system performance.



Installation

- 1 Indoor unit QH175
- 2 Outdoor unit QA9 or QA15



Features & benefits

- R290 refrigerant
- Support for active cooling as standard
- Suitable for up to 11kW heating capacity
- Instantaneous domestic hot water for comfort as well as efficient legionella prevention
- Future proof connectivity
- Integrated buffer tank that enables true energy peak price shaving for both hot water and heating.



Product efficiency for room heating, 35 °C.



Product efficiency at room heating, 55 °C.



Product efficiency class and hot water tap profile.



MODEL		QA9	QA15-1	QA15-3
Energy efficiency, average climate				
Product efficiency class, average climate 35°C/55°C		A+++/A++	A+++/A++	A+++/A++
System efficiency class, average climate 35°C/55°C		A+++/A++	A+++/A+++	A+++/A++
Output data (EN14825)				
Nominal heating output, 35°C/55°C <small>(P_{designh})</small>	kW	4.92 / 4.71	9.46 / 9.02	9.29 / 9.24
SCOP average climate, 35°C/55°C		5,05/3,61	4,94/3,72	4,92/3,67
Heating capacity and COP (EN14511)				
Nominal heating capacity (A7/W35)	kW	6.38	9.99	8.38
Nominal heating capacity (A7/W55)	kW	5.58	9.52	9.6
Max. heating capacity (A-10/W55)	kW	4.72	9.15	8.69
COP (A7/W35)		4.94	4.71	3.96
COP (A7/W55)		3.04	3.0	3.04
Refrigerant circuit				
Refrigerant type (GWP)			R290 (3)	
CO ₂ equivalent	kg	1.5	2.55	2.55
Refrigerant quantity	kg	0.5	0.85	0.85
Minimum flow	l/s	0.13	0.21	0.21
Nominal flow	l/s	0.28	0.47	0.47
Min. required flow during defrosting	l/s	0.2	0.33	0.33
Electrical data				
Rated voltage	V	230V 1N ~ 50Hz	230V 1N ~ 50Hz	400V 3N ~ 50Hz
Maximum power input	kW	3.0	5.3	5.3
Maximum current input	A	13.5	24.5	10.5
Recommended fuse	A	16	25	13
Recommended RCD type			B	
Enclosure class			IPX4	
Sound data				
Sound power level <small>(L_{W(A)}) EN12102</small>	dB(A)	58	57	58
Sound power level Max <small>(L_{W(A)})</small>	dB(A)	64	64	64
Fan data				
Fan motor type			DC motor	
Fan motor power input (min~max)	W	55~105	60~120	60~120
Fan speed	rpm	300~600	220~600	220~600
Connections dimensions				
Heating medium, external thread Ø		DN20	DN20	DN20
Recommended pipe dimension Ø		22	28	28
Weight and dimensions				
Net weight		98	140	140
W x D x H		1765 x 400 x 795	1287 x 465 x 928	1287 x 465 x 928
Gross weight ¹		140	189	189
W x D x H with packaging		1400 x 500 x 1200	1400 x 500 x 1200	1400 x 500 x 1200

1 The weight includes the packaging and the supplied components



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Product efficiency class and hot water tap profile.



MODEL	QH-175	
Controller efficiency data		
Controller, class		VI
Controller, contribution to efficiency	%	4
Heating medium circuit		
Buffer tank volume	l	175
Opening pressure, safety valve ¹	MPa/bar	0.3/3
Max recommended temperature, supply line	°C	65
Max pressure, buffer tank	MPa/bar	0.3/3
Max temperature, buffer tank ²	°C	90
Hot water		
Plate heat exchanger volume	l	<0.8
Opening pressure, safety valve	MPa/bar	0.9/9
Amount of domestic hot water (40 °C) ^{3, 4}	l	230
Max amount of domestic hot water (40 °C) ^{3, 5}	l	350
Electrical data		
Rated voltage	V	400V 3N ~ 50Hz / 230V IN ~ 50Hz
Max power immersion heater	kW	5.0 (1+2+2)
Maximum electric consumption, 3×400V / 1×230V	A	9/23
Recommended fuse, 3×400V / 1×230V	A	13/25
Recommended RCD type		A
Enclosure class		IP 21
Connection dimensions		
Distribution system, external thread		DN20
Cold water, external thread		DN20
Hot water, external thread		DN20
Heat pump, external thread		DN20
Weight and dimensions		
Weight, empty/ filled	kg	110/285
Weight with packaging	kg	131
W x D x H	mm	600 × 620 × 1480
W x D x H with packaging	mm	661 × 680 × 1712
Service clearance height	mm	1715

1 The safety valve is not present in the unit. Install a safety valve externally if the unit is installed as a standalone electric heating boiler.

2 With internal immersion heater.

3 At tap flow rate 10 l/min and an incoming cold water temperature of 10 °C

4 When the setting for domestic hot water is set to four characters.

5 When operating mode Additional hot water is active.

