

Subtype QA-9

Certificate Holder	Quantum Energi AB
Address	Ji-te gatan 7
ZIP	265 38
City	Åstorp
Country	SE
Certification Body	BRE Global Limited
Subtype title	QA-9
Registration number	041-K111-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.5 kg
Certification Date	01.02.2025
Testing basis	Heat Pump Keymark Scheme Rules Rev 15

Model QA-9-1

Model name	QA-9-1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.83 kW	6.28 kW
El input	1.22 kW	2.05 kW
COP	4.79	3.07

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	197 %	146 %
Prated	4.92 kW	4.71 kW
SCOP	5.00	3.71
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.35 kW	4.17 kW
COP Tj = -7°C	3.23	2.32
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.66 kW	2.67 kW
COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.06 kW	2.57 kW

COP Tj = +7°C	6.18	4.64
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.35 kW	2.83 kW
COP Tj = 12°C	8.29	6.32
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	4.35 kW	4.17 kW
COP Tj = Tbiv	3.23	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.95 kW	4.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	67 °C	67 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.01 kW
Annual energy consumption Qhe	2031 kWh	2623 kWh