

Subtype QE-4

Certificate Holder	Qvantum Energi AB
Address	Ji-te gatan 7
ZIP	265 38
City	Åstorp
Country	SE
Certification Body	RISE CERT
Subtype title	QE-4
Registration number	012-C700319
Heat Pump Type	Exhaust Air/Water
Refrigerant	R513A
Mass of Refrigerant	1.2 kg
Certification Date	19.11.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022
Testing laboratory	Danish Technological Institute (DTI), DK

Model QE-4 3x400V

Model name	QE-4 3x400V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.69
Heating up time	5.54 h:min
Standby power input	66.2 W
Reference hot water temperature	42.0 °C
Mixed water at 40°C	233 l

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	3.52 kW	3.55 kW
El input	1.26 kW	1.65 kW
COP	2.79	2.15

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	152 %
Prated	3.50 kW	3.50 kW

SCOP	4.68	3.88
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.02 kW	3.15 kW
COP Tj = -7°C	3.12	2.51
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	1.97 kW	1.99 kW
COP Tj = +2°C	4.80	3.91
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	1.18 kW	1.21 kW
COP Tj = +7°C	5.72	4.74
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	0.86 kW	0.87 kW
COP Tj = 12°C	6.10	5.18
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	3.52 kW	3.55 kW
COP Tj = Tbiv	2.79	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.52 kW	3.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.15
Rated airflow rate	190 m³/h	190 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	58 °C	58 °C
Poff	2 W	2 W
PTO	5 W	5 W
PSB	5 W	5 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1545 kWh	1867 kWh

Model QE-4 1x230V

Model name	QE-4 1x230V
Application	Heating + DHW + low temp
Units	Indoor
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	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.69
Heating up time	5.54 h:min
Standby power input	66.2 W
Reference hot water temperature	42.0 °C
Mixed water at 40°C	233 l

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	3.52 kW	3.55 kW
El input	1.26 kW	1.65 kW
COP	2.79	2.15

EN 12102-1 | Average Climate

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η_s	184 %	152 %
Prated	3.50 kW	3.50 kW

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TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.02 kW	3.15 kW
COP Tj = -7°C	3.12	2.51
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Pdh Tj = +7°C	1.18 kW	1.21 kW
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PTO	5 W	5 W
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
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