

Subtype DC Inverter Type Air to Water Unit- R410A- 90kW

Certificate Holder	ES Heat Pumps AB
Address	Nitgatan 2
ZIP	441 38
City	Alingsås
Country	SE
Certification Body	BRE Global Limited
Subtype title	DC Inverter Type Air to Water Unit- R410A- 90kW
Registration number	041-K057-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	16 kg
Certification Date	06.11.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

Model Indoor unit: AWC30/90-EVI-M, Outdoor unit: AW90-EVI-M

Model name	Indoor unit: AWC30/90-EVI-M, Outdoor unit: AW90-EVI-M
Application	Heating (medium temp)
Units	Indoor, 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	3x400V 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	77 dB(A)	77 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	154 %	134 %
Prated	64.85 kW	74.24 kW
SCOP	3.94	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	57.36 kW	65.67 kW
COP Tj = -7°C	2.82	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	37.25 kW	40.02 kW
COP Tj = +2°C	3.97	3.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	31.58 kW	32.47 kW
COP Tj = +7°C	4.99	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	34.78 kW	37.91 kW
COP Tj = 12°C	5.61	5.91
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	57.36 kW	65.67 kW

COP Tj = Tbiv	2.82	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	52.30 kW	62.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	32 W	32 W
PTO	32 W	32 W
PSB	32 W	32 W
PCK	70 W	70 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	12.55 kW	11.62 kW
Annual energy consumption Qhe	34037 kWh	44922 kWh