

Subtype DC Inverter Type Air to Water Unit- R410A- 30kW

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- 30kW
Registration number	041-K057-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	5.2 kg
Certification Date	06.11.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

Model Indoor unit: AWC30/90-EVI-M, Outdoor unit: AW30-EVI-M

Model name	Indoor unit: AWC30/90-EVI-M, Outdoor unit: AW30-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	32 dB(A)	32 dB(A)
Sound power level outdoor	66 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	159 %	125 %
Prated	26.53 kW	24.61 kW
SCOP	4.04	3.21
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	23.47 kW	21.77 kW
COP Tj = -7°C	2.76	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	14.31 kW	14.08 kW
COP Tj = +2°C	4.10	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	12.85 kW	11.39 kW
COP Tj = +7°C	5.04	4.26
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	13.87 kW	13.20 kW
COP Tj = 12°C	6.40	5.47
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	23.47 kW	21.77 kW

COP Tj = Tbiv	2.76	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.64 kW	20.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	12 W	12 W
PSB	10 W	10 W
PCK	33 W	33 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.89 kW	4.02 kW
Annual energy consumption Qhe	13563 kWh	15836 kWh