

Subtype Air to Water Heat Pump- R290- 6kW-C-100L

Certificate Holder	Aira Group AB
Address	Norra Stationsgatan 93C
ZIP	11364
City	Stockholm
Country	SE
Certification Body	BRE Global Limited
Subtype title	Air to Water Heat Pump- R290- 6kW-C-100L
Registration number	041-K087-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	11.03.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 13

Model Indoor unit: HPI-AO-100-1.0, Outdoor unit: HPO-AW-6-230V-1.0

Model name	Indoor unit: HPI-AO-100-1.0, Outdoor unit: HPO-AW-6-230V-1.0
Application	Heating + DHW + low 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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	M
Efficiency η_{DHW}	71 %
COP	1.69
Heating up time	1:23:47 h:min
Standby power input	35.0 W
Reference hot water temperature	47.9 °C
Mixed water at 40°C	103 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	5.70 kW	5.56 kW
El input	1.16 kW	1.69 kW
COP	4.93	3.29

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	45 dB(A)
Sound power level outdoor	57 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	144 %

Prated	6.76 kW	6.70 kW
SCOP	4.71	3.66
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.98 kW	5.92 kW
COP Tj = -7°C	3.13	2.50
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.81 kW	3.79 kW
COP Tj = +2°C	4.64	3.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.13 kW	2.82 kW
COP Tj = +7°C	6.30	4.52
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.82 kW	3.66 kW
COP Tj = 12°C	8.48	6.40
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.98 kW	5.92 kW
COP Tj = Tbiv	3.13	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	5.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	12 W	12 W
PTO	41 W	41 W
PSB	12 W	12 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.44 kW	1.35 kW
Annual energy consumption Qhe	2970 kWh	3774 kWh