Subtype DC Inverter Air to Water Heat Pump Unit- R32-6AIO

Certificate Holder	DUKO Energie s.r.o.
Address	Šafaříkova 1737
ZIP	53901
City	Hlinsko
Country	CZ
Certification Body	BRE Global Limited
Subtype title	DC Inverter Air to Water Heat Pump Unit- R32-6AIO
Registration number	041-K115-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	27.08.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Indoor unit: M6kWR32AIO; Outdoor unit: M6kWR32AIO

Model name	Indoor unit: M6kWR32AIO; Outdoor unit: M6kWR32AIO
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 | Operating test

Temperature operating range	2
Safety devices checking test	2
Condensate draining	2

EN 12102-2 | Average Climate

Sound power level indoor	45 dB(A)
Sound power level outdoor	54 dB(A)

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	122 %
COP	2.93
Heating up time	35:44:33 h:min
Standby power input	29.0 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	216 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	3.30 kW	5.31 kW
El input	0.69 kW	1.89 kW
COP	4.82	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	45 dB(A)
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	180 %	133 %
Prated	4.13 kW	4.56 kW
SCOP	4.58	3.40
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.66 kW	4.04 kW
COP Tj = -7°C	3.15	2.03
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.30 kW	2.49 kW
COP Tj = +2°C	4.45	3.39
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.66 kW	2.49 kW
COP Tj = +7°C	6.43	4.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.15 kW	3.02 kW
COP Tj = 12°C	8.64	6.83
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.66 kW	4.04 kW
COP Tj = Tbiv	3.15	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	57 °C	57 °C
Poff	13 W	10 W
PTO	31 W	31 W
PSB	13 W	10 W
PCK	44 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.08 kW
Annual energy consumption Qhe	1865 kWh	2770 kWh