

Subtype DC Inverter Air to Water Heat Pump Unit- R32-15AIO

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- R32-15AIO
Registration number	041-K115-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 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: M15kWR32AIO; Outdoor unit: M15WR32AIO

Model name	Indoor unit: M15kWR32AIO; Outdoor unit: M15WR32AIO
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	3x400V 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	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.00
Heating up time	23:8:13 h:min
Standby power input	46.0 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	219 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	9.58 kW	11.14 kW
El input	1.85 kW	4.14 kW
COP	5.19	2.69

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	127 %
Prated	11.60 kW	11.04 kW
SCOP	4.70	3.24
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	10.26 kW	9.76 kW
COP Tj = -7°C	3.38	1.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.30 kW	6.11 kW
COP Tj = +2°C	4.69	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.13 kW	5.93 kW
COP Tj = +7°C	6.29	4.76
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.97 kW	6.92 kW
COP Tj = 12°C	6.02	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.26 kW	9.76 kW
COP Tj = Tbiv	3.38	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.23 kW	9.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	56 °C	56 °C
Poff	13 W	13 W
PTO	39 W	39 W
PSB	13 W	13 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	1.91 kW
Annual energy consumption Qhe	5096 kWh	7039 kWh