

Subtype Airmi Monoblock 4kW / 6kW

Certificate Holder	Rotenso Sp. z o.o.
Address	ul. Szyb Walenty 16
ZIP	41-700
City	Ruda Śląska
Country	PL
Certification Body	BRE Global Limited
Subtype title	Airmi Monoblock 4kW / 6kW
Registration number	041-K078-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.03 kg
Certification Date	21.02.2024
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model AIM*40X1

Model name	AIM*40X1
Application	Heating (medium temp)
Units	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 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	4.04 kW	4.19 kW
El input	0.82 kW	1.50 kW
COP	4.92	2.79

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	128 %
Prated	3.87 kW	4.91 kW
SCOP	4.58	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.42 kW	4.34 kW
COP Tj = -7°C	3.01	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.37 kW	2.68 kW
COP Tj = +2°C	4.55	3.30
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.16 kW	1.86 kW

COP Tj = +7°C	5.46	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.17 kW	2.25 kW
COP Tj = 12°C	7.70	5.70
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	3.42 kW	4.34 kW
COP Tj = Tbiv	3.01	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.02 kW	4.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	18 W	18 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.67 kW
Annual energy consumption Qhe	1745 kWh	3090 kWh

Model AIM*60X1

Model name	AIM*60X1
Application	Heating (medium temp)
Units	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 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	6.10 kW	6.15 kW
El input	1.25 kW	2.19 kW
COP	4.88	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	127 %
Prated	5.81 kW	5.68 kW
SCOP	4.48	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.14 kW	5.03 kW
COP Tj = -7°C	3.05	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.49 kW	3.15 kW
COP Tj = +2°C	4.27	3.26
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.34 kW	2.15 kW

COP Tj = +7°C	5.60	3.87
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.17 kW	2.24 kW
COP Tj = 12°C	7.98	5.56
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	5.14 kW	5.03 kW
COP Tj = Tbiv	3.05	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.53 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	66 °C	66 °C
Poff	7 W	7 W
PTO	18 W	18 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	1.28 kW
Annual energy consumption Qhe	2677 kWh	3605 kWh