

Subtype BLW Mono 9

Certificate Holder	August Brötje GmbH
Address	August-Brötje-Str. 17
ZIP	26180
City	Rastede
Country	DE
Certification Body	Kiwa Nederland B.V.
Subtype title	BLW Mono 9
Registration number	007-DO0180
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.55 kg
Certification Date	24.01.2024
Testing basis	European KEYMARK Scheme for Heat Pumps (v12)

Model BLW Mono 9.1

Model name	BLW Mono 9.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.52 kW	7.04 kW
EI input	0.89 kW	2.24 kW
COP	5.08	3.14

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	200 %	148 %
Prated	9.00 kW	9.00 kW
SCOP	5.07	3.77
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	7.83 kW
COP Tj = -7°C	3.11	2.38
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.69 kW	4.72 kW
COP Tj = +2°C	5.10	3.68
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	6.44	4.89

Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.45 kW	3.24 kW
COP Tj = 12°C	7.80	5.97
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	8.57 kW	8.11 kW
COP Tj = Tbiv	2.89	2.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	7.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	°C	°C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	1.74 kW
Annual energy consumption Qhe	3668 kWh	4937 kWh