

## 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
El 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
$\eta_s$	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