

Subtype Brötje BLW Pro 30.1

Certificate Holder	August Brötje GmbH
Address	August-Brötje-Str. 17
ZIP	26180
City	Rastede
Country	DE
Certification Body	Kiwa Nederland B.V.
Subtype title	Brötje BLW Pro 30.1
Registration number	007-DO0178
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	4.75 kg
Certification Date	10.04.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v12)

**Model BLW Pro 30.1**

Model name	BLW Pro 30.1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
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	30.00 kW	30.00 kW
El input	6.52 kW	10.07 kW
COP	4.60	2.98

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	7.56 kW	6.98 kW
Cooling capacity	23.30	30.00
EER	3.08	4.30

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	204 %	155 %
Prated	30.00 kW	30.00 kW
SCOP	5.17	3.96
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C

Pdh Tj = -7°C	26.41 kW	26.54 kW
COP Tj = -7°C	2.97	2.17
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	16.15 kW	16.25 kW
COP Tj = +2°C	5.21	3.93
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	10.38 kW	10.39 kW
COP Tj = +7°C	7.15	5.45
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	8.17 kW	8.30 kW
COP Tj = 12°C	8.01	7.65
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	26.41 kW	26.54 kW
COP Tj = Tbiv	2.97	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.31 kW	25.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	135 W	135 W
PTO	200 W	175 W
PSB	135 W	135 W
PCK	90 W	90 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.69 kW	4.93 kW
Annual energy consumption Qhe	3390 kWh	3149 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	23.30 kW	30.00 kW
SEER	4.55	5.31
Pdc Tj = 35°C	23.30 kW	30.00 kW
EER Tj = 35°C	3.08	4.30
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	17.68 kW	22.11 kW
EER Tj = 30°C	4.15	5.17
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	11.37 kW	14.21 kW
EER Tj = 25°C	5.62	6.63
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	5.78 kW	7.90 kW
EER Tj = 20°C	5.80	7.20
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	300 W

PTO	166 W	166 W
PSB	0 W	0 W
PCK	0 W	0 W
Annual energy consumption Qce	3075 kWh	3390 kWh

**Model BLW Pro 30.1 SE**

Model name	BLW Pro 30.1 SE
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

**General data**

Power supply	n/a
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	30.00 kW	30.00 kW
El input	6.52 kW	10.07 kW
COP	4.60	2.98

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	7.56 kW	6.98 kW
Cooling capacity	23.30	30.00
EER	3.08	4.30

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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**EN 14825 | Average Climate**

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SCOP	5.17	3.96
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C

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Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	16.15 kW	16.25 kW
COP Tj = +2°C	5.21	3.93
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	10.38 kW	10.39 kW
COP Tj = +7°C	7.15	5.45
Cdh Tj = +7 °C	0.900	0.900
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PTO	200 W	175 W
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Pdc Tj = 20°C	5.78 kW	7.90 kW
EER Tj = 20°C	5.80	7.20
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	300 W

PTO	166 W	166 W
PSB	0 W	0 W
PCK	0 W	0 W
Annual energy consumption Qce	3075 kWh	3390 kWh