

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	21.02.2024
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	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	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	62.54 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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TOL	-20 °C	-20 °C
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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
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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