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Summary of	BLW Split-K 4 D R32	Reg. No.	21HK0020/00
Certificate Holder		<u> </u>	
Name	August Brötje GmbH	August Brötje GmbH	
Address	August-Brötje-Str. 17	Zip	26180
City	Rastede	Country	Germany
Certification Body	Kiwa Nederland B.V.	Kiwa Nederland B.V.	
Subtype title	BLW Split-K 4 D R32	BLW Split-K 4 D R32	
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water	
Refrigerant	R32	R32	
Mass of Refrigerant	1.2 kg	1.2 kg	
Certification Date	12.11.2021	12.11.2021	
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)		



Model: AWHPR 4 MR + BLWSKI48MHD

Configure model		
Model name	AWHPR 4 MR + BLWSKI48MHD	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.10 kW
El input	0.88 kW	1.55 kW
СОР	5.20	2.65

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.33 kW	1.16 kW
Cooling capacity	4.50	6.00
EER	3.39	5.18

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.61	7.99
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc	0.950	0.940
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Annual energy consumption Qce	586 kWh	450 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	5.00 kW	5.00 kW
SCOP	4.48	3.43
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	3.18	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.970	0.970

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Pdh Tj = 12°C	2.70 kW	2.10 kW
COP Tj = 12°C	8.78	7.29
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	133 %
СОР	3.17
Heating up time	1:37 h:min
Standby power input	27.9 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	255 I



Model: AWHPR 4 MR + BLWSKI480HD

Configure model		
Model name	AWHPR 4 MR + BLWSKI48OHD	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

General Data	
Power supply n/a	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.60 kW	4.10 kW	
El input	0.88 kW	1.55 kW	
СОР	5.20	2.65	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

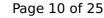
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.33 kW	1.16 kW
Cooling capacity	4.50	6.00
EER	3.39	5.18

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.61	7.99
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc	0.950	0.940
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Annual energy consumption Qce	586 kWh	450 kWh

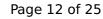




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	5.00 kW	5.00 kW
SCOP	4.48	3.43
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	3.18	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	1.75 kW	1.74 kW
$COP Tj = +7^{\circ}C$	5.37	4.44
Cdh Tj = +7 °C	0.970	0.970

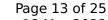
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Pdh Tj = 12°C	2.70 kW	2.10 kW
COP Tj = 12°C	8.78	7.29
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	133 %	
СОР	3.17	
Heating up time	1:37 h:min	
Standby power input	27.9 W	
Reference hot water temperature	53.8 °C	
Mixed water at 40°C	255 I	



Model: AWHPR 4 MR + BLWSKI48MHD

Configure model		
Model name	AWHPR 4 MR + BLWSKI48MHD	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

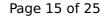
General Data	
Power supply n/a	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.60 kW	4.10 kW	
El input	0.88 kW	1.55 kW	
СОР	5.20	2.65	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

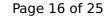
Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	1.33 kW	1.16 kW	
Cooling capacity	4.50	6.00	
EER	3.39	5.18	

EN 14825





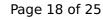
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.61	7.99
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc	0.950	0.940
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	586 kWh	450 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	176 %	134 %
Prated	5.00 kW	5.00 kW
SCOP	4.48	3.43
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	3.18	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.970	0.970





Pdh Tj = 12°C	2.70 kW	2.10 kW
COP Tj = 12°C	8.78	7.29
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	М
Efficiency ηDHW	127 %
СОР	2.98
Heating up time	1:39 h:min
Standby power input	20.9 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 I



Model: AWHPR 4 MR + BLWSKI48OHD

Configure model		
Model name	AWHPR 4 MR + BLWSKI48OHD	
Application	Heating + DHW + low temp	
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

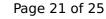
General Data		
Power supply	n/a	

Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.60 kW	4.10 kW
El input	0.88 kW	1.55 kW
СОР	5.20	2.65

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

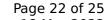
Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	1.33 kW	1.16 kW	
Cooling capacity	4.50	6.00	
EER	3.39	5.18	

EN 14825





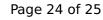
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.61	7.99
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc	0.950	0.940
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Annual energy consumption Qce	586 kWh	450 kWh



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	29 dB(A)	29 dB(A)		
Sound power level outdoor	56 dB(A)	56 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	176 %	134 %	
Prated	5.00 kW	5.00 kW	
SCOP	4.48	3.43	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.40 kW	4.50 kW	
COP Tj = -7 °C	3.18	2.15	
Cdh Tj = -7 °C	0.990	0.990	
Pdh Tj = $+2$ °C	2.70 kW	2.70 kW	
COP Tj = +2°C	4.44	3.39	
Cdh Tj = +2 °C	0.990	0.990	
Pdh Tj = +7°C	1.75 kW	1.74 kW	
COP Tj = +7°C	5.37	4.44	
Cdh Tj = +7 °C	0.970	0.970	

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2.70 kW	2.10 kW
8.78	7.29
0.960	0.960
5.00 kW	4.50 kW
3.00	2.15
5.00 kW	4.30 kW
3.00	1.83
0.990	0.990
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	0 W
Electricity	Electricity
0.00 kW	0.70 kW
2305 kWh	3009 kWh
	8.78 0.960 5.00 kW 3.00 5.00 kW 3.00 0.990 60 °C 15 W 15 W 0 W Electricity 0.00 kW

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	М	
Efficiency ηDHW	127 %	
СОР	2.98	
Heating up time	1:39 h:min	
Standby power input	20.9 W	
Reference hot water temperature	53.8 °C	
Mixed water at 40°C	260 I	