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Summary of	BRÖTJE MONO AWHP 6-8	Reg. No.	037-0046-20
Certificate Holder			
Name	BDR THERMEA FR (BRÖTJE)		
Address	57 rue de la Gare	Zip	67580
City	Mertzwiller	Country	France
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Subtype title	BRÖTJE MONO AWHP 6-8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.4 kg		
Certification Date	02.06.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: MONO AWHP 6 MR

Configure model	
Model name	MONO AWHP 6 MR
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.24 kW	2.09 kW
COP	4.83	2.87

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	188 %	132 %
Prated	6.00 kW	6.00 kW
SCOP	4.77	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.18	2.09
Cdh Tj = -7 °C	0.991	0.994
Pdh Tj = +2°C	3.20 kW	3.20 kW
COP Tj = +2°C	4.52	3.22
Cdh Tj = +2 °C	0.979	0.985
Pdh Tj = +7°C	3.20 kW	2.90 kW
COP Tj = +7°C	6.55	4.62
Cdh Tj = +7 °C	0.969	0.976
Pdh Tj = 12°C	2.90 kW	2.70 kW

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COP Tj = 12°C	8.16	6.09
Cdh Tj = +12 °C	0.958	0.966
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.18	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.88 kW	4.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	0.960
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.12 kW	1.12 kW
Annual energy consumption Qhe	2598 kWh	3674 kWh

Model: MONO AWHP 8 MR

Configure model	
Model name	MONO AWHP 8 MR
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	2.00 kW	3.24 kW
COP	4.51	2.78

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	139 %
Prated	8.50 kW	8.50 kW
SCOP	4.44	3.56
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.50 kW	7.50 kW
COP Tj = -7°C	2.21	1.96
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	4.60 kW	4.60 kW
COP Tj = +2°C	4.53	3.50
Cdh Tj = +2 °C	0.985	0.989
Pdh Tj = +7°C	3.40 kW	2.90 kW
COP Tj = +7°C	6.28	4.90
Cdh Tj = +7 °C	0.972	0.975
Pdh Tj = 12°C	3.20 kW	2.90 kW

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COP Tj = 12°C	8.48	6.80
Cdh Tj = +12 °C	0.960	0.965
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	2.21	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	0.960
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.85 kW	1.85 kW
Annual energy consumption Qhe	3952 kWh	4933 kWh

Model: MONO AWHP 8 TR

Configure model	
Model name	MONO AWHP 8 TR
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	2.00 kW	3.24 kW
COP	4.51	2.78

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

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	174 %	139 %
Prated	8.50 kW	8.50 kW
SCOP	4.43	3.55
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.50 kW	7.50 kW
COP Tj = -7°C	2.21	1.96
Cdh Tj = -7 °C	0.994	0.994
Pdh Tj = +2°C	4.60 kW	4.60 kW
COP Tj = +2°C	4.53	3.50
Cdh Tj = +2 °C	0.978	0.983
Pdh Tj = +7°C	3.40 kW	2.90 kW
COP Tj = +7°C	6.28	4.90
Cdh Tj = +7 °C	0.959	0.963
Pdh Tj = 12°C	3.20 kW	2.90 kW

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COP Tj = 12°C	8.48	6.80
Cdh Tj = +12 °C	0.942	0.948
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	2.21	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.99	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.930	0.940
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.85 kW	1.85 kW
Annual energy consumption Qhe	3962 kWh	4941 kWh