

This information was generated by the HP KEYMARK database on 17 Dec 2020

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)		
Name of testing laboratory	IGE Institut für GebäudeEnergetik		
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

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
Indoor water flow rate	1.03 m ³ /h	0.65 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	184 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.67	3.30
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.23	2.09
Pdh Tj = +2°C	3.20 kW	3.20 kW
COP Tj = +2°C	4.58	3.22
Pdh Tj = +7°C	3.20 kW	2.90 kW
COP Tj = +7°C	6.55	4.62
Pdh Tj = 12°C	2.90 kW	2.70 kW
COP Tj = 12°C	8.16	6.09
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.23	2.09
Pdh Tj = TOL	3.50 kW	3.50 kW
COP Tj = TOL	1.28	1.28
Cdh	0.95	0.96
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	1.10 kW	1.10 kW
Annual energy consumption Qhe	2541 kWh	3642 kWh

Model: MONO AWHP 8 MR

General Data

Power supply	1x230V 50Hz
--------------	-------------

Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

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
Indoor water flow rate	1.55 m ³ /h	0.97 m ³ /h

Average Climate

EN 12102-1

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	171 %	137 %
Prated	8.50 kW	8.50 kW
SCOP	4.35	3.50
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
Pdh Tj = +2°C	4.60 kW	4.60 kW
COP Tj = +2°C	4.53	3.50
Pdh Tj = +7°C	3.40 kW	2.90 kW
COP Tj = +7°C	6.28	4.90
Pdh Tj = 12°C	3.20 kW	2.90 kW
COP Tj = 12°C	8.48	6.80
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	2.21	1.96
Pdh Tj = TOL	3.80 kW	3.80 kW
COP Tj = TOL	1.30	1.37
Cdh	0.95	0.96
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	1.90 kW	1.90 kW
Annual energy consumption Qhe	3903 kWh	4882 kWh

Model: MONO AWHP 8 TR

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

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
Indoor water flow rate	1.55 m ³ /h	0.97 m ³ /h

Average Climate

EN 12102-1

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	169 %	136 %
Prated	8.50 kW	8.50 kW
SCOP	4.30	3.47
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
Pdh Tj = +2°C	4.60 kW	4.60 kW
COP Tj = +2°C	4.53	3.50
Pdh Tj = +7°C	3.40 kW	2.90 kW
COP Tj = +7°C	6.28	4.90
Pdh Tj = 12°C	3.20 kW	2.90 kW
COP Tj = 12°C	8.48	6.80
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	2.21	1.96
Pdh Tj = TOL	3.80 kW	3.80 kW
COP Tj = TOL	1.26	1.33
Cdh	0.93	0.94
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	1.90 kW	1.90 kW
Annual energy consumption Qhe	3911 kWh	4889 kWh