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Summary of	OERTLI MONO AWHP 11	Reg. No.	037-0045-20
Certificate Holder			
Name	BDR Thermea FR (OERTLI)		
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	OERTLI MONO AWHP 11		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.3 kg		
Certification Date	30.01.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: MONO AWHP 11 MR

Configure model	
Model name	MONO AWHP 11 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	11.20 kW	11.20 kW
El input	2.47 kW	4.15 kW
COP	4.54	2.70

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	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	174 %	135 %
Prated	10.00 kW	10.00 kW
SCOP	4.41	3.44
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.90 kW	9.00 kW
COP Tj = -7°C	3.17	1.99
Cdh Tj = -7 °C	0.995	0.997
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.23	3.30
Cdh Tj = +2 °C	0.988	0.991
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.33	4.86
Cdh Tj = +7 °C	0.978	0.984
Pdh Tj = 12°C	4.30 kW	4.10 kW

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COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.973	0.977
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970
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	1.65 kW	1.58 kW
Annual energy consumption Qhe	4681 kWh	5998 kWh

Model: MONO AWHP 11 TR

Configure model	
Model name	MONO AWHP 11 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	11.20 kW	11.20 kW
El input	2.47 kW	4.15 kW
COP	4.54	2.70

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 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	134 %
Prated	10.00 kW	10.00 kW
SCOP	4.40	3.44
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.90 kW	9.00 kW
COP Tj = -7°C	3.17	1.99
Cdh Tj = -7 °C	0.992	0.995
Pdh Tj = +2°C	5.40 kW	5.70 kW
COP Tj = +2°C	4.23	3.29
Cdh Tj = +2 °C	0.983	0.987
Pdh Tj = +7°C	3.60 kW	4.70 kW
COP Tj = +7°C	5.31	4.88
Cdh Tj = +7 °C	0.968	0.977
Pdh Tj = 12°C	4.30 kW	4.10 kW

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COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.961	0.966
Pdh Tj = Tbiv	8.90 kW	9.00 kW
COP Tj = Tbiv	3.17	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.35 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	0.960
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	1.65 kW	1.58 kW
Annual energy consumption Qhe	4693 kWh	6012 kWh