

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

Summary of	VITOCAL 100 A- (AF) 10/12	Reg. No.	ICIM-PDC-000086-00
Certificate Holder			
Name	Viessmann Werke Allendorf GmbH		
Address	Viessmannstraße 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	ICIM S.p.A.		
Name of testing laboratory	OBL certificate		
Subtype title	VITOCAL 100 A- (AF) 10/12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	2.5 kg		
Certification Date	25.06.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: AWO-M-AC (AF) 101.A12

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.80 kW	10.83 kW
El input	2.73 kW	4.00 kW
COP	4.32	2.70
Indoor water flow rate	2.03 m ³ /h	1.17 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	131 %
Prated	10.00 kW	10.00 kW
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh	1.00	1.00
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh	1.00	1.00
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh	0.97	0.98
Pdh Tj = 12°C	4.90 kW	4.80 kW

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COP Tj = 12°C	7.81	5.31
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL	8.80 kW	8.70 kW
COP Tj = TOL	2.64	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	0	0
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4631 kWh	5942 kWh

Cooling

EN 14825

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	+7°C/+12°C
P _{designc}	8.51 kW
SEER	4.25
P _{dc} T _j = 35°C	8.51 kW
EER T _j = 35°C	3.05
P _{dc} T _j = 30°C	6.28 kW
EER T _j = 30°C	4.03
C _{dc}	1.0
P _{dc} T _j = 25°C	3.98 kW
EER T _j = 25°C	4.58
C _{dc}	1.0
P _{dc} T _j = 20°C	4.23 kW
EER T _j = 20°C	6.08
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1202 kWh

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EN 14511-2	
	+7°C/+12°C
El input	2.79 kW
Indoor water flow rate	1.46 m³/h
Cooling capacity	8.51
EER	3.05

Model: AWO-M-AC (AF) 101.A10

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.10 kW	9.27 kW
El input	2.28 kW	3.42 kW
COP	4.43	2.71
Indoor water flow rate	1.74 m ³ /h	1.00 m ³ /h

EN 14511-4

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	135 %
Prated	9.00 kW	9.00 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh	1.00	1.00
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh	1.00	1.00
Pdh Tj = +7°C	4.20 kW	4.10 kW
COP Tj = +7°C	6.01	4.30
Cdh	0.97	0.98
Pdh Tj = 12°C	4.90 kW	4.80 kW

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COP Tj = 12°C	8.08	6.36
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL	8.30 kW	8.10 kW
COP Tj = TOL	2.71	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	0	0
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4294 kWh	5464 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	2.39 kW
Indoor water flow rate	1.30 m³/h
Cooling capacity	7.53
EER	3.15

EN 14825

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

	+7°C/+12°C
P _{designc}	7.53 kW
SEER	4.15
P _{dc} T _j = 35°C	7.53 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	5.49 kW
EER T _j = 30°C	3.92
C _{dc}	1.0
P _{dc} T _j = 25°C	3.56 kW
EER T _j = 25°C	4.46
C _{dc}	1.0
P _{dc} T _j = 20°C	4.35 kW
EER T _j = 20°C	6.07
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	19 W
Annual energy consumption Q _{ce}	1089 kWh