

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

Summary of	VITOCAL 100 A- (AF) 14	Reg. No.	ICIM-PDC-000087-00
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) 14		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	3.6 kg		
Certification Date	25.06.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: AWO-AC (AF) 101.A14

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.10 kW	12.80 kW
El input	2.91 kW	4.25 kW
COP	4.85	3.01
Indoor water flow rate	2.43 m ³ /h	1.36 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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	130 %
Prated	12.00 kW	12.00 kW
SCOP	4.48	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	10.70 kW	10.30 kW
COP Tj = -7°C	2.98	2.10
Cdh	1.00	1.00
Pdh Tj = +2°C	6.50 kW	6.20 kW
COP Tj = +2°C	4.20	3.21
Cdh	1.00	1.00
Pdh Tj = +7°C	5.80 kW	5.70 kW
COP Tj = +7°C	5.98	4.19
Cdh	0.98	0.98

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Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.16	6.17
Cdh	0.98	0.98
Pdh Tj = Tbiv	10.70 kW	10.30 kW
COP Tj = Tbiv	2.98	2.10
Pdh Tj = TOL	10.50 kW	10.20 kW
COP Tj = TOL	2.69	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	5584 kWh	7260 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.53 kW
Indoor water flow rate	1.97 m³/h
Cooling capacity	11.48
EER	3.25

EN 14825

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	+7°C/+12°C
P _{designc}	11.48 kW
SEER	4.62
P _{dc} T _j = 35°C	11.48 kW
EER T _j = 35°C	3.25
P _{dc} T _j = 30°C	8.47 kW
EER T _j = 30°C	4.31
C _{dc}	1.0
P _{dc} T _j = 25°C	5.41 kW
EER T _j = 25°C	4.91
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.52
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1492 kWh

Model: AWO-M-AC (AF) 101.A14

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

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EN 14511-4

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