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Summary of	VITOCAL 100 A- (AF) 10/12	Reg. No.	ICIM-PDC-000086-00	
Certificate Holder			-	
Name	Viessmann Werke Allendorf Gm	Viessmann Werke Allendorf GmbH		
Address	Viessmannstraße 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	ICIM S.p.A.	ICIM S.p.A.		
Name of testing laboratory	OBL certificate	OBL certificate		
Subtype title	VITOCAL 100 A- (AF) 10/12	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	25.06.2020		
Testing basis	HP KEYMARK certification schei	HP KEYMARK certification scheme rules rev. no. 7		



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

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.80 kW	10.83 kW
El input	2.73 kW	4.00 kW
СОР	4.32	2.70
Indoor water flow rate	2.03 m³/h	1.17 m³/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



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
РТО	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





This information was generated by the Fir KE	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.25
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.0
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	1.0
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.08
Cdc	1.0
Poff	19 W
РТО	o w
PSB	19 W
РСК	30 W
Annual energy consumption Qce	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

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.10 kW	9.27 kW
El input	2.28 kW	3.42 kW
СОР	4.43	2.71
Indoor water flow rate	1.74 m³/h	1.00 m³/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	

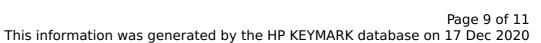
Average Climate



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	

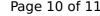
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COP Tj = 12°C	8.08	6.36
Cdh	0.97	0.98
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL	8.30 kW	8.10 kW
COP Tj = TOL	2.71	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W
РТО	19 W	19 W
PSB	19 W	19 W
PCK	30 W	30 W
Supplementary Heater: Type of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

Cooling

CEN heat pump KEYMARK





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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 Fill KE	+7°C/+12°C
Pdesignc	7.53 kW
SEER	4.15
Pdc Tj = 35°C	7.53 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	5.49 kW
EER Tj = 30°C	3.92
Cdc	1.0
Pdc Tj = 25°C	3.56 kW
EER Tj = 25°C	4.46
Cdc	1.0
Pdc Tj = 20°C	4.35 kW
EER Tj = 20°C	6.07
Cdc	1.0
Poff	19 W
РТО	0 W
PSB	19 W
PCK	19 W
Annual energy consumption Qce	1089 kWh