

Summary of	VITOCAL 100 A- (AF) 16/18	Reg. No.	ICIM-PDC-000088-00	
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) 16/18	VITOCAL 100 A- (AF) 16/18		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32	R32		
Mass Of Refrigerant	4 kg	4 kg		
Certification Date	25.06.2020	25.06.2020		
Testing basis	HP KEYMARK certification schem	HP KEYMARK certification scheme rules rev. no. 7		



Model: AWO-M-AC (AF) 101.A16

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.30 kW	14.89 kW
El input	3.49 kW	5.07 kW
СОР	4.67	2.94
Indoor water flow rate	2.80 m³/h	1.60 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 indoor	dB(A)	dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	126 %
Prated	14.00 kW	13.00 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.88	2.09
Cdh	1.00	1.00
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.33	3.06
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	5.50 kW
COP Tj = +7°C	5.83	4.11
Cdh	0.98	0.97

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Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.12	6.30
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.88	2.09
Pdh Tj = TOL	11.70 kW	11.50 kW
COP Tj = TOL	2.60	1.94
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	6210 kWh	8359 kWh

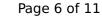
Cooling





EN 14511-2	
	+7°C/+12°C
El input	4.38 kW
Indoor water flow rate	2.37 m³/h
Cooling capacity	13.80
EER	3.15

EN 14825





This information was generated by the fire KE	+7°C/+12°C
Pdesignc	13.80 kW
SEER	4.80
Pdc Tj = 35°C	13.80 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	10.17 kW
EER Tj = 30°C	4.36
Cdc	1.0
Pdc Tj = 25°C	6.47 kW
EER Tj = 25°C	5.30
Cdc	1.0
Pdc Tj = 20°C	5.53 kW
EER Tj = 20°C	6.53
Cdc	1.0
Poff	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1726 kWh



Model: AWO-AC (AF) 101.A16

General Data	
Power supply	3x400V 50Hz

Heating

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Defrost test	passed	
Starting and operating test	passed	

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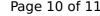
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EN 14825



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