

Subtype VITOCAL 100 A- (AF) 16/18

Certificate Holder	Viessmann Climate Solutions GmbH & Co. KG
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	ICIM S.p.A.
Subtype title	VITOCAL 100 A- (AF) 16/18
Registration number	ICIM-PDC-000088
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4 kg
Certification Date	25.06.2020
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

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

Model name	AWO-M-AC (AF) 101.A16
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.30 kW	14.89 kW
El input	3.49 kW	5.07 kW
COP	4.67	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.38 kW	
Cooling capacity	13.80	
EER	3.15	

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.33	3.06
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.70 kW	5.50 kW
COP Tj = +7°C	5.83	4.11
Cdh Tj = +7 °C	0.98	0.97
Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.12	6.30
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.88	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
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	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6210 kWh	8359 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°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 Tj = 30 °C	1.0	
Pdc Tj = 25°C	6.47 kW	
EER Tj = 25°C	5.30	
Cdc Tj = 25 °C	1.0	
Pdc Tj = 20°C	5.53 kW	
EER Tj = 20°C	6.53	
Cdc Tj = 20 °C	1.0	
Poff	19 W	
PTO	0 W	
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PCK	30 W
Annual energy consumption Qce	1726 kWh

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Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

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Defrost test	passed
Starting and operating test	passed

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