Subtype VITOCAL 100 A- (AF) 06/08

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) 06/08
Registration number	ICIM-PDC-000085
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	25.06.2020
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model AWO-M-AC (AF) 101.A06	
Model name	AWO-M-AC (AF) 101.A06
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
Phase-out Date	30.10.2025

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	6.08 kW	5.74 kW
El input	1.35 kW	2.09 kW
COP	4.51	2.75

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	1.60 kW	
Cooling capacity	5.02	
EER	3.14	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	126 %
Prated	7.00 kW	7.00 kW
SCOP	4.46	3.21
Tbiv	-7 °C	-7 °C

TOL	-20 °C	-15 °C
Pdh Tj = -7°C	6.10 kW	5.80 kW
COP Tj = -7°C	2.96	2.08
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.70 kW	3.60 kW
COP Tj = +2°C	4.36	3.30
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	5.56	3.49
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.88	6.49
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	6.10 kW	5.80 kW
COP Tj = Tbiv	2.96	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.10 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.95
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	3179 kWh	4191 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.02 kW	
SEER	4.12	
Pdc Tj = 35°C	5.02 kW	
EER Tj = 35°C	3.14	
Pdc Tj = 30°C	3.70 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	1.0	
Pdc Tj = 25°C	2.70 kW	
EER Tj = 25°C	4.80	
Cdc Tj = 25 °C	1.0	
Pdc Tj = 20°C	2.96 kW	
EER Tj = 20°C	6.10	
Cdc Tj = 20 °C	1.0	
Poff	19 W	
PTO	0 W	
PSB	19 W	

PCK	30 W
Annual energy consumption Qce	730 kWh

Model AWO-M-AC (AF) 101.A08	
Model name	AWO-M-AC (AF) 101.A08
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
Phase-out Date	30.10.2025

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	7.81 kW	7.19 kW
El input	1.78 kW	2.59 kW
COP	4.38	2.77

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	1.99 kW	
Cooling capacity	6.08	
EER	3.05	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	176 %	128 %
Prated	7.00 kW	7.00 kW
SCOP	4.46	3.27
Tbiv	-7 °C	-7 °C

TOL	-20 °C	-15 °C
Pdh Tj = -7°C	6.50 kW	6.30 kW
COP Tj = -7°C	2.95	1.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.00 kW	3.80 kW
COP Tj = +2°C	4.37	3.33
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.10 kW	3.10 kW
COP Tj = +7°C	5.55	3.90
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	7.86	6.30
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	6.50 kW	6.30 kW
COP Tj = Tbiv	2.95	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	1.95
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	3413 kWh	4496 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.08 kW	
SEER	4.25	
Pdc Tj = 35°C	6.08 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	4.49 kW	
EER Tj = 30°C	4.07	
Cdc Tj = 30 °C	1.0	
Pdc Tj = 25°C	2.74 kW	
EER Tj = 25°C	4.84	
Cdc Tj = 25 °C	1.0	
Pdc Tj = 20°C	3.02 kW	
EER Tj = 20°C	6.34	
Cdc Tj = 20 °C	1.0	
Poff	19 W	
PTO	0 W	
PSB	19 W	

PCK	19 W
Annual energy consumption Qce	857 kWh