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Login

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

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

Configure model	
Model name	AWO-M-AC (AF) 101.A12
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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
COP	4.32	2.70

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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	4.90 kW	4.80 kW

COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	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	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4631 kWh	5942 kWh

Cooling

EN 14825

	+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
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1202 kWh

EN 14511-2	
	+7°C/+12°C
El input	2.79 kW
Cooling capacity	8.51
EER	3.05

Model: AWO-M-AC (AF) 101.A10

Configure model	
Model name	AWO-M-AC (AF) 101.A10
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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
COP	4.43	2.71

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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	4.20 kW	4.10 kW
COP Tj = +7°C	6.01	4.30
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	4.90 kW	4.80 kW

COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	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	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4294 kWh	5464 kWh

Cooling

EN 14511-2	
	+7°C/+12°C
El input	2.39 kW
Cooling capacity	7.53
EER	3.15

EN 14825	
	+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
PTO	0 W
PSB	19 W
PCK	19 W
Annual energy consumption Qce	1089 kWh