

This information was generated by the HP KEYMARK database on 18 Mar 2022

[Login](#)

Summary of	VITOCAL 100 A- (AF) 16/18	Reg. No.	ICIM-PDC-000088-00
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) 16/18		
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

Configure model	
Model name	AWO-M-AC (AF) 101.A16
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	16.30 kW	14.89 kW
El input	3.49 kW	5.07 kW
COP	4.67	2.94

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 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Cooling

EN 14511-2

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

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.53
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh

Model: AWO-AC (AF) 101.A16

Configure model	
Model name	AWO-AC (AF) 101.A16
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 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
COP	4.67	2.94

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 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Cooling

EN 14511-2

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

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.53
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh