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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 |

## Cooling

## EN 14511-2

| | **+7°C/+12°C** |
|---|---|
| El input | 2.79 kW |
| Cooling capacity | 8.51 |
| EER | 3.05 |

## 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 |

## 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 |
|---|---|---|
| $\eta_s$ | 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 |

# 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 |

## 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 |

## 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** |
| $\eta_s$ | 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 |