

Testing basis

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<u>Login</u> Summary of Vitocal 100-S/111-S | 8kW 230V Reg. No. 011-1W0402 Certificate Holder Name Viessmann Wärmepumpen GmbH 35107 Address Viessmannstr. 1 Zip City Allendorf/Eder Country Germany DIN CERTCO Gesellschaft für Konformitätsbewertung mbH **Certification Body** Subtype title Vitocal 100-S/111-S | 8kW 230V Heat Pump Type Outdoor Air/Water Refrigerant R32 Mass of Refrigerant 1.6 kg Certification Date 02.11.2020

HP KEYMARK certification scheme rules rev. 7



Model: Vitocal 100-S AWB-M 101.B08

| Configure model | | |
|--|---------------------------------|--|
| Model name Vitocal 100-S AWB-M 101.B08 | | |
| Application | Heating (medium temp) | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

| EN 14511-2 | | | | |
|------------------------------------|---------|---------|--|--|
| Low temperature Medium temperature | | | | |
| Heat output | 8.13 kW | 9.67 kW | | |
| El input | 1.74 kW | 3.61 kW | | |
| СОР | 4.66 | 2.69 | | |

| EN 14511-4 | | |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | |
| n _s | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| COP Tj = -7°C | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 4.25 kW | 3.60 kW | |
| COP Tj = +2°C | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | |
| $COP Tj = +7^{\circ}C$ | 6.19 | 4.93 | |





| Cdh Tj = +7 °C | 0.99 | 0.99 |
|--|--------------|-------------|
| Pdh Tj = 12°C | 5.96 kW | 6.69 kW |
| COP Tj = 12°C | 8.88 | 7.34 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW |
| COP Tj = Tbiv | 2.63 | 1.95 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | o w |
| PSB | o w | o w |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW |
| Backup Heater | 0.00 kW | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh |
| | | |

Warmer Climate



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | | |
|-----------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| η_{s} | 238 % | 159 % | |
| Prated | 8.80 kW | 8.40 kW | |
| SCOP | 6.03 | 4.06 | |
| Tbiv | 2 °C | 2 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = +2°C | 8.77 kW | 8.37 kW | |
| COP Tj = +2°C | 3.40 | 2.28 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 7.53 kW | 6.67 kW | |
| COP Tj = +7°C | 5.36 | 3.38 | |
| Cdh Tj = +7 °C | 0.99 | 0.99 | |
| Pdh Tj = 12°C | 5.90 kW | 5.38 kW | |
| COP Tj = 12°C | 8.09 | 5.62 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |





| Pdh Tj = Tbiv | 8.77 kW | 8.37 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.40 | 2.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.77 kW | 8.37 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.40 | 2.28 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | 0 W |
| PSB | o w | o w |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 11720 kWh | 11186 kWh |
| | | |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

EN 14825





| <u> </u> | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 141 % | 98 % |
| Prated | 6.80 kW | 6.10 kW |
| SCOP | 3.60 | 2.53 |
| Tbiv | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 4.69 kW | 4.20 kW |
| COP Tj = -7 °C | 2.97 | 2.09 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = $+2$ °C | 4.16 kW | 3.65 kW |
| COP Tj = +2°C | 4.61 | 3.18 |
| Cdh Tj = $+2$ °C | 0.99 | 0.99 |
| Pdh Tj = $+7^{\circ}$ C | 5.14 kW | 4.78 kW |
| $COP Tj = +7^{\circ}C$ | 6.68 | 5.03 |
| Cdh Tj = $+7$ °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.00 kW | 5.75 kW |
| COP Tj = 12°C | 8.83 | 7.30 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.52 kW | 4.95 kW |
| COP Tj = Tbiv | 2.13 | 1.47 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.30 kW | 1.06 kW |



| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.21 | 0.32 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | 0 W |
| PSB | o w | 0 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.77 kW | 6.07 kW |
| Annual energy consumption Qhe | 16466 kWh | 14650 kWh |



Model: Vitocal 100-S AWB-M-E 101.B08

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | Vitocal 100-S AWB-M-E 101.B08 | |
| Application | Heating (medium temp) | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

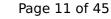
| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 8.13 kW | 9.67 kW | |
| El input | 1.74 kW | 3.61 kW | |
| СОР | 4.66 | 2.69 | |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| $COP Tj = -7^{\circ}C$ | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 4.25 kW | 3.60 kW | |
| COP Tj = +2°C | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = $+7$ °C | 5.09 kW | 6.94 kW | |
| $COPTj = +7^{\circ}C$ | 6.19 | 4.93 | |





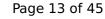
| Cdh Tj = +7 °C | 0.99 | 0.99 | |
|--|--------------|-------------|--|
| Pdh Tj = 12°C | 5.96 kW | 6.69 kW | |
| COP Tj = 12°C | 8.88 | 7.34 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW | |
| COP Tj = Tbiv | 2.63 | 1.95 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| РТО | o w | o w | |
| PSB | 0 W | o w | |
| PCK | 0 W | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Warmer Climate



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 238 % | 159 % |
| Prated | 8.80 kW | 8.40 kW |
| SCOP | 6.03 | 4.06 |
| Tbiv | 2 °C | 2 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = $+2$ °C | 8.77 kW | 8.37 kW |
| COP Tj = +2°C | 3.40 | 2.28 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = $+7^{\circ}$ C | 7.53 kW | 6.67 kW |
| $COPTj = +7^{\circ}C$ | 5.36 | 3.38 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.90 kW | 5.38 kW |
| COP Tj = 12°C | 8.09 | 5.62 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |





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| COP Tj = Tbiv | 3.40 | 2.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.77 kW | 8.37 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.40 | 2.28 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | 0 W | 0 W |
| PSB | 0 W | 0 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 11720 kWh | 11186 kWh |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

EN 14825





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 141 % | 98 % |
| Prated | 6.80 kW | 6.10 kW |
| SCOP | 3.60 | 2.53 |
| Tbiv | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 4.69 kW | 4.20 kW |
| $COP Tj = -7^{\circ}C$ | 2.97 | 2.09 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.16 kW | 3.65 kW |
| COP Tj = +2°C | 4.61 | 3.18 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.14 kW | 4.78 kW |
| COP Tj = +7°C | 6.68 | 5.03 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.00 kW | 5.75 kW |
| COP Tj = 12°C | 8.83 | 7.30 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.52 kW | 4.95 kW |
| COP Tj = Tbiv | 2.13 | 1.47 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.30 kW | 1.06 kW |



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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.21 | 0.32 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | o w |
| PSB | o w | o w |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.77 kW | 6.07 kW |
| Annual energy consumption Qhe | 16466 kWh | 14650 kWh |



Model: Vitocal 100-S AWB-M-E-AC 101.B08

| Configure model | | |
|-------------------------------------|----------------------------------|--|
| Model name | Vitocal 100-S AWB-M-E-AC 101.B08 | |
| Application | Heating (medium temp) | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

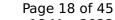
| EN 14511-2 | | | |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 8.13 kW | 9.67 kW | |
| El input | 1.74 kW | 3.61 kW | |
| СОР | 4.66 | 2.69 | |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
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| Cdh Tj = -7 °C | 0.99 | 0.99 | |
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| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| РТО | o w | o w | |
| PSB | 0 W | o w | |
| PCK | 0 W | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Warmer Climate



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|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
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| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
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| PSB | o w | o w |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 11720 kWh | 11186 kWh |
| | | |

Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825





| | Low temperature | Medium temperature |
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| η_{s} | 141 % | 98 % |
| Prated | 6.80 kW | 6.10 kW |
| SCOP | 3.60 | 2.53 |
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| Pdh Tj = Tbiv | 5.52 kW | 4.95 kW |
| COP Tj = Tbiv | 2.13 | 1.47 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.30 kW | 1.06 kW |



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

| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.21 | 0.32 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | o w |
| PSB | o w | o w |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.77 kW | 6.07 kW |
| Annual energy consumption Qhe | 16466 kWh | 14650 kWh |



Model: Vitocal 100-S AWB-M-E-AC 101.B08 F

| Configure model | | |
|---|---------------------------------|--|
| Model name Vitocal 100-S AWB-M-E-AC 101.B08 F | | |
| Application Heating (medium temp) | | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

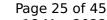
| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 8.13 kW | 9.67 kW |
| El input | 1.74 kW | 3.61 kW |
| СОР | 4.66 | 2.69 |

| EN 14511-4 | | |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | ! |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| COP Tj = -7°C | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = $+2$ °C | 4.25 kW | 3.60 kW | |
| COP Tj = +2°C | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | |
| $COP Tj = +7^{\circ}C$ | 6.19 | 4.93 | |





| Cdh Tj = +7 °C | 0.99 | 0.99 | |
|--|--------------|-------------|--|
| Pdh Tj = 12°C | 5.96 kW | 6.69 kW | |
| COP Tj = 12°C | 8.88 | 7.34 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW | |
| COP Tj = Tbiv | 2.63 | 1.95 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| РТО | 0 W | o w | |
| PSB | 0 W | o w | |
| PCK | o w | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Warmer Climate



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 238 % | 159 % |
| Prated | 8.80 kW | 8.40 kW |
| SCOP | 6.03 | 4.06 |
| Tbiv | 2 °C | 2 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = +2°C | 8.77 kW | 8.37 kW |
| COP Tj = +2°C | 3.40 | 2.28 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = $+7^{\circ}$ C | 7.53 kW | 6.67 kW |
| $COP Tj = +7^{\circ}C$ | 5.36 | 3.38 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 5.90 kW | 5.38 kW |
| COP Tj = 12°C | 8.09 | 5.62 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |



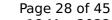


| Pdh Tj = Tbiv | 8.77 kW | 8.37 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.40 | 2.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.77 kW | 8.37 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.40 | 2.28 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | 0 W |
| PSB | o w | 0 W |
| PCK | o w | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 11720 kWh | 11186 kWh |
| | | |

Colder Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

EN 14825





| <u> </u> | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 141 % | 98 % |
| Prated | 6.80 kW | 6.10 kW |
| SCOP | 3.60 | 2.53 |
| Tbiv | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 4.69 kW | 4.20 kW |
| COP Tj = -7 °C | 2.97 | 2.09 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = $+2$ °C | 4.16 kW | 3.65 kW |
| COP Tj = +2°C | 4.61 | 3.18 |
| Cdh Tj = $+2$ °C | 0.99 | 0.99 |
| Pdh Tj = $+7^{\circ}$ C | 5.14 kW | 4.78 kW |
| $COP Tj = +7^{\circ}C$ | 6.68 | 5.03 |
| Cdh Tj = $+7$ °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 6.00 kW | 5.75 kW |
| COP Tj = 12°C | 8.83 | 7.30 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.52 kW | 4.95 kW |
| COP Tj = Tbiv | 2.13 | 1.47 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.30 kW | 1.06 kW |



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

| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.21 | 0.32 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | o w | o w |
| PSB | o w | o w |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.77 kW | 6.07 kW |
| Annual energy consumption Qhe | 16466 kWh | 14650 kWh |



Model: Vitocal 111-S AWBT-M-AC 111.B08

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | Vitocal 111-S AWBT-M-AC 111.B08 | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

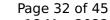
| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 8.13 kW | 9.67 kW |
| El input | 1.74 kW | 3.61 kW |
| СОР | 4.66 | 2.69 |

| EN 14511-4 | | |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

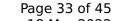
| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | ! |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| COP Tj = -7°C | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = $+2$ °C | 4.25 kW | 3.60 kW | |
| COP Tj = +2°C | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | |
| $COP Tj = +7^{\circ}C$ | 6.19 | 4.93 | |





| Cdh Tj = +7 °C | 0.99 | 0.99 | |
|--|--------------|-------------|--|
| Pdh Tj = 12 °C | 5.96 kW | 6.69 kW | |
| COP Tj = 12°C | 8.88 | 7.34 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW | |
| COP Tj = Tbiv | 2.63 | 1.95 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| PTO | o w | o w | |
| PSB | o w | o w | |
| PCK | o w | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Domestic Hot Water (DHW)





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 125 % | |
| СОР | 2.97 | |
| Heating up time | 1:22 h:min | |
| Standby power input | 26.0 W | |
| Reference hot water temperature | 23.1 °C | |
| Mixed water at 40°C | 291 I | |



Model: Vitocal 111-S AWBT-M-E 111.B08

| Configure model | | |
|-------------------------------------|--------------------------------|--|
| Model name | Vitocal 111-S AWBT-M-E 111.B08 | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

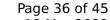
| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 8.13 kW | 9.67 kW |
| El input | 1.74 kW | 3.61 kW |
| СОР | 4.66 | 2.69 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

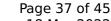
| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | ! |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| COP Tj = -7°C | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = $+2$ °C | 4.25 kW | 3.60 kW | |
| COP Tj = +2°C | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | |
| $COP Tj = +7^{\circ}C$ | 6.19 | 4.93 | |





| Cdh Tj = +7 °C | 0.99 | 0.99 | |
|--|--------------|-------------|--|
| Pdh Tj = 12°C | 5.96 kW | 6.69 kW | |
| COP Tj = 12°C | 8.88 | 7.34 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW | |
| COP Tj = Tbiv | 2.63 | 1.95 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| РТО | o w | o w | |
| PSB | 0 W | o w | |
| PCK | 0 W | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Domestic Hot Water (DHW)





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 125 % | |
| СОР | 2.97 | |
| Heating up time | 1:22 h:min | |
| Standby power input | 26.0 W | |
| Reference hot water temperature | 23.1 °C | |
| Mixed water at 40°C | 291 | |

Model: Vitocal 111-S AWBT-M-E-AC 111.B08

| Configure model | | |
|-------------------------------------|-----------------------------------|--|
| Model name | Vitocal 111-S AWBT-M-E-AC 111.B08 | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz | |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 8.13 kW | 9.67 kW |
| El input | 1.74 kW | 3.61 kW |
| СОР | 4.66 | 2.69 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

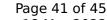
| EN 14825 | | | | |
|-----------------------|---------|--------------------|-----------------------|--|
| | | Low temperature | Medium temperature | |
| Pdesignh | 6.70 kW | | | |
| η_{s} | 176 % | 125 % | | |
| Prated | 6.40 kW | 6.70 kW | | |
| SCOP | 4.46 | 3.20 | | |
| Tbiv | -8 °C | -7 °C | | |
| TOL | -20 °C | -20 °C | | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | | |
| COP Tj = -7°C | 2.74 | 1.95 | | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | | |
| Pdh Tj = $+2$ °C | 4.25 kW | 3.60 kW | | |
| COP Tj = +2°C | 4.25 | 2.90 | | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | | |
| $COPTj = +7^{\circ}C$ | 6.19 | 4.93 | | |





| Cdh Tj = +7 °C | 0.99 | 0.99 | |
|--|--------------|-------------|--|
| Pdh Tj = 12 °C | 5.96 kW | 6.69 kW | |
| COP Tj = 12°C | 8.88 | 7.34 | |
| Cdh Tj = +12 °C | 0.99 | 0.99 | |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW | |
| COP Tj = Tbiv | 2.63 | 1.95 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 4.99 kW | 4.74 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 | |
| WTOL | 55 °C | 55 °C | |
| Poff | 15 W | 15 W | |
| PTO | o w | o w | |
| PSB | o w | o w | |
| PCK | o w | o w | |
| Supplementary Heater: Type of energy input | Electricity | Electricity | |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW | |
| Backup Heater | 0.00 kW | | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh | |

Domestic Hot Water (DHW)





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 125 % | |
| СОР | 2.97 | |
| Heating up time | 1:22 h:min | |
| Standby power input | 26.0 W | |
| Reference hot water temperature | 23.1 °C | |
| Mixed water at 40°C | 291 | |



Model: Vitocal 111-S AWBT-M-E-AC 111.B08 F

| Configure model | | |
|-------------------------------------|-------------------------------------|--|
| Model name | Vitocal 111-S AWBT-M-E-AC 111.B08 F | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | n/a | |
| Reversibility | No | |
| Cooling mode application (optional) | n/a | |

| General Data | | | |
|--------------------------|--|--|--|
| Power supply 1x230V 50Hz | | | |

Heating

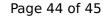
| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 8.13 kW | 9.67 kW | |
| El input | 1.74 kW | 3.61 kW | |
| СОР | 4.66 | 2.69 | |

| EN 14511-4 | | |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) | |

| EN 14825 | | | |
|------------------------|---------|--------------------|-----------------------|
| | | Low temperature | Medium temperature |
| Pdesignh | 6.70 kW | | |
| η_{s} | 176 % | 125 % | |
| Prated | 6.40 kW | 6.70 kW | |
| SCOP | 4.46 | 3.20 | |
| Tbiv | -8 °C | -7 °C | |
| TOL | -20 °C | -20 °C | |
| Pdh Tj = -7°C | 6.24 kW | 5.93 kW | |
| $COP Tj = -7^{\circ}C$ | 2.74 | 1.95 | |
| Cdh Tj = -7 °C | 0.99 | 0.99 | |
| Pdh Tj = +2°C | 4.25 kW | 3.60 kW | |
| $COP Tj = +2^{\circ}C$ | 4.25 | 2.90 | |
| Cdh Tj = +2 °C | 0.99 | 0.99 | |
| Pdh Tj = +7°C | 5.09 kW | 6.94 kW | |
| $COP Tj = +7^{\circ}C$ | 6.19 | 4.93 | |





| Cdh Tj = +7 °C | 0.99 | 0.99 |
|---|--------------|-------------|
| Pdh Tj = 12°C | 5.96 kW | 6.69 kW |
| COP Tj = 12°C | 8.88 | 7.34 |
| Cdh Tj = $+12$ °C | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 5.91 kW | 5.93 kW |
| COP Tj = Tbiv | 2.63 | 1.95 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.99 kW | 4.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.19 | 1.56 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 55 °C | 55 °C |
| Poff | 15 W | 15 W |
| РТО | 0 W | o w |
| PSB | 0 W | o w |
| PCK | o w | o w |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.41 kW | 1.96 kW |
| Backup Heater | 0.00 kW | |
| Annual energy consumption Qhe | 13206 kWh | 13788 kWh |
| | | |

Domestic Hot Water (DHW)





| EN 16147 | | |
|---------------------------------|------------|--|
| Declared load profile | XL | |
| Efficiency ηDHW | 125 % | |
| СОР | 2.97 | |
| Heating up time | 1:22 h:min | |
| Standby power input | 26.0 W | |
| Reference hot water temperature | 23.1 °C | |
| Mixed water at 40°C | 291 I | |