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

Login

Summary of	Vitocal 100-S/111-S | 8kW 230V	Reg. No.	011-1W0402
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
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		
Testing basis	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
COP	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

Average 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
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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°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

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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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
COP	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

Average 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
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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°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

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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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-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
COP	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

Average 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**
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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°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

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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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-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
COP	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

Average 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**
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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°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

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
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 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 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
COP	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

Average 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**
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	125 %
COP	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 l

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
COP	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

Average 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
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
COP	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 l

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
COP	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

Average 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**
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	125 %
COP	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 l

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
COP	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

Average 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
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°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	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	125 %
COP	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 l