

This information was generated by the HP KEYMARK database on 17 Dec 2020

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			
Name of testing laboratory	Heat Pump Test Center WPZ			
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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
P _{designh}	6.70 kW		
η_s	176 %	125 %	
P _{rated}	6.40 kW	6.70 kW	
SCOP	4.46	3.20	
T _{biv}	-8 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	6.24 kW	5.93 kW	
COP T _j = -7°C	2.74	1.95	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	4.25 kW	3.60 kW	
COP T _j = +2°C	4.25	2.90	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	5.09 kW	6.94 kW	
COP T _j = +7°C	6.19	4.93	

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Cdh	0.99	0.99
Pdh Tj = 12°C	5.96 kW	6.69 kW
COP Tj = 12°C	8.88	7.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.91 kW	5.93 kW
COP Tj = Tbiv	2.63	1.95
Pdh Tj = TOL	4.99 kW	4.74 kW
COP Tj = TOL	2.19	1.56
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	1.41 kW	1.96 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	13206 kWh	13788 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +7°C	7.53 kW	6.67 kW
COP Tj = +7°C	5.36	3.38
Cdh	0.99	0.99
Pdh Tj = 12°C	5.90 kW	5.38 kW
COP Tj = 12°C	8.09	5.62
Cdh	0.99	0.99

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Pdh Tj = Tbiv	8.77 kW	8.37 kW
COP Tj = Tbiv	3.40	2.28
Pdh Tj = TOL	8.77 kW	8.37 kW
COP Tj = TOL	3.40	2.28
Cdh	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	electrical	electrical
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
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	0.99	0.99
Pdh Tj = +2°C	4.16 kW	3.65 kW
COP Tj = +2°C	4.61	3.18
Cdh	0.99	0.99
Pdh Tj = +7°C	5.14 kW	4.78 kW
COP Tj = +7°C	6.68	5.03
Cdh	0.99	0.99
Pdh Tj = 12°C	6.00 kW	5.75 kW
COP Tj = 12°C	8.83	7.30
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.52 kW	4.95 kW
COP Tj = Tbiv	2.13	1.47
Pdh Tj = TOL	3.30 kW	1.06 kW

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COP Tj = TOL	1.21	0.32
Cdh	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	electrical	electrical
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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

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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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PTO	0 W	0 W
PSB	0 W	0 W
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Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	11720 kWh	11186 kWh

Colder Climate

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EN 14825		
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Supplementary Heater: Type of energy input	electrical	electrical
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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

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Supplementary Heater: Type of energy input	electrical	electrical
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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EN 14825

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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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)
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EN 14825		
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Supplementary Heater: Type of energy input	electrical	electrical
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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
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Supplementary Heater: Type of energy input	electrical	electrical
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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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

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
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P _{dh} T _j = -7°C	6.24 kW	5.93 kW	
COP T _j = -7°C	2.74	1.95	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	4.25 kW	3.60 kW	
COP T _j = +2°C	4.25	2.90	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	5.09 kW	6.94 kW	
COP T _j = +7°C	6.19	4.93	

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	0.99	0.99
Pdh Tj = 12°C	5.96 kW	6.69 kW
COP Tj = 12°C	8.88	7.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.91 kW	5.93 kW
COP Tj = Tbiv	2.63	1.95
Pdh Tj = TOL	4.99 kW	4.74 kW
COP Tj = TOL	2.19	1.56
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	1.41 kW	1.96 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	13206 kWh	13788 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +7°C	7.53 kW	6.67 kW
COP Tj = +7°C	5.36	3.38
Cdh	0.99	0.99
Pdh Tj = 12°C	5.90 kW	5.38 kW
COP Tj = 12°C	8.09	5.62
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	8.77 kW	8.37 kW
COP Tj = Tbiv	3.40	2.28
Pdh Tj = TOL	8.77 kW	8.37 kW
COP Tj = TOL	3.40	2.28
Cdh	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	electrical	electrical
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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +2°C	4.16 kW	3.65 kW
COP Tj = +2°C	4.61	3.18
Cdh	0.99	0.99
Pdh Tj = +7°C	5.14 kW	4.78 kW
COP Tj = +7°C	6.68	5.03
Cdh	0.99	0.99
Pdh Tj = 12°C	6.00 kW	5.75 kW
COP Tj = 12°C	8.83	7.30
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.52 kW	4.95 kW
COP Tj = Tbiv	2.13	1.47
Pdh Tj = TOL	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = TOL	1.21	0.32
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	6.77 kW	6.07 kW
Annual energy consumption Qhe	16466 kWh	14650 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
		Average climate
Declared load profile	XL	XL
Efficiency η_{DHW}	125 %	125 %
COP	2.97	2.97
Heating up time	1:22 h:min	1:22 h:min
Standby power input	26.0 W	26.0 W
Reference hot water temperature	23.1 °C	23.1 °C
Mixed water at 40°C	291 l	291 l

Warmer Climate

Colder Climate

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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
P _{designh}	6.70 kW		
η_s	176 %	125 %	
Prated	6.40 kW	6.70 kW	
SCOP	4.46	3.20	
T _{biv}	-8 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	6.24 kW	5.93 kW	
COP T _j = -7°C	2.74	1.95	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	4.25 kW	3.60 kW	
COP T _j = +2°C	4.25	2.90	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	5.09 kW	6.94 kW	
COP T _j = +7°C	6.19	4.93	

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	0.99	0.99
Pdh Tj = 12°C	5.96 kW	6.69 kW
COP Tj = 12°C	8.88	7.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.91 kW	5.93 kW
COP Tj = Tbiv	2.63	1.95
Pdh Tj = TOL	4.99 kW	4.74 kW
COP Tj = TOL	2.19	1.56
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	1.41 kW	1.96 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	13206 kWh	13788 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +7°C	7.53 kW	6.67 kW
COP Tj = +7°C	5.36	3.38
Cdh	0.99	0.99
Pdh Tj = 12°C	5.90 kW	5.38 kW
COP Tj = 12°C	8.09	5.62
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	8.77 kW	8.37 kW
COP Tj = Tbiv	3.40	2.28
Pdh Tj = TOL	8.77 kW	8.37 kW
COP Tj = TOL	3.40	2.28
Cdh	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	electrical	electrical
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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +2°C	4.16 kW	3.65 kW
COP Tj = +2°C	4.61	3.18
Cdh	0.99	0.99
Pdh Tj = +7°C	5.14 kW	4.78 kW
COP Tj = +7°C	6.68	5.03
Cdh	0.99	0.99
Pdh Tj = 12°C	6.00 kW	5.75 kW
COP Tj = 12°C	8.83	7.30
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.52 kW	4.95 kW
COP Tj = Tbiv	2.13	1.47
Pdh Tj = TOL	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = TOL	1.21	0.32
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	6.77 kW	6.07 kW
Annual energy consumption Qhe	16466 kWh	14650 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
		Average climate
Declared load profile	XL	XL
Efficiency η_{DHW}	125 %	125 %
COP	2.97	2.97
Heating up time	1:22 h:min	1:22 h:min
Standby power input	26.0 W	26.0 W
Reference hot water temperature	23.1 °C	23.1 °C
Mixed water at 40°C	291 l	291 l

Warmer Climate

Colder Climate

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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
P _{designh}	6.70 kW		
η_s	176 %	125 %	
P _{rated}	6.40 kW	6.70 kW	
SCOP	4.46	3.20	
T _{biv}	-8 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	6.24 kW	5.93 kW	
COP T _j = -7°C	2.74	1.95	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	4.25 kW	3.60 kW	
COP T _j = +2°C	4.25	2.90	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	5.09 kW	6.94 kW	
COP T _j = +7°C	6.19	4.93	

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	0.99	0.99
Pdh Tj = 12°C	5.96 kW	6.69 kW
COP Tj = 12°C	8.88	7.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.91 kW	5.93 kW
COP Tj = Tbiv	2.63	1.95
Pdh Tj = TOL	4.99 kW	4.74 kW
COP Tj = TOL	2.19	1.56
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	1.41 kW	1.96 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	13206 kWh	13788 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +7°C	7.53 kW	6.67 kW
COP Tj = +7°C	5.36	3.38
Cdh	0.99	0.99
Pdh Tj = 12°C	5.90 kW	5.38 kW
COP Tj = 12°C	8.09	5.62
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	8.77 kW	8.37 kW
COP Tj = Tbiv	3.40	2.28
Pdh Tj = TOL	8.77 kW	8.37 kW
COP Tj = TOL	3.40	2.28
Cdh	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	electrical	electrical
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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +2°C	4.16 kW	3.65 kW
COP Tj = +2°C	4.61	3.18
Cdh	0.99	0.99
Pdh Tj = +7°C	5.14 kW	4.78 kW
COP Tj = +7°C	6.68	5.03
Cdh	0.99	0.99
Pdh Tj = 12°C	6.00 kW	5.75 kW
COP Tj = 12°C	8.83	7.30
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.52 kW	4.95 kW
COP Tj = Tbiv	2.13	1.47
Pdh Tj = TOL	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = TOL	1.21	0.32
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	6.77 kW	6.07 kW
Annual energy consumption Qhe	16466 kWh	14650 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
		Average climate
Declared load profile	XL	XL
Efficiency η_{DHW}	125 %	125 %
COP	2.97	2.97
Heating up time	1:22 h:min	1:22 h:min
Standby power input	26.0 W	26.0 W
Reference hot water temperature	23.1 °C	23.1 °C
Mixed water at 40°C	291 l	291 l

Warmer Climate

Colder Climate

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

General Data

Power supply	1x230V 50Hz
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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
Indoor water flow rate	0.70 m ³ /h	0.70 m ³ /h

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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
P _{designh}	6.70 kW		
η_s	176 %	125 %	
Prated	6.40 kW	6.70 kW	
SCOP	4.46	3.20	
T _{biv}	-8 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	6.24 kW	5.93 kW	
COP T _j = -7°C	2.74	1.95	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	4.25 kW	3.60 kW	
COP T _j = +2°C	4.25	2.90	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	5.09 kW	6.94 kW	
COP T _j = +7°C	6.19	4.93	

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	0.99	0.99
Pdh Tj = 12°C	5.96 kW	6.69 kW
COP Tj = 12°C	8.88	7.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.91 kW	5.93 kW
COP Tj = Tbiv	2.63	1.95
Pdh Tj = TOL	4.99 kW	4.74 kW
COP Tj = TOL	2.19	1.56
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	1.41 kW	1.96 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	13206 kWh	13788 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +7°C	7.53 kW	6.67 kW
COP Tj = +7°C	5.36	3.38
Cdh	0.99	0.99
Pdh Tj = 12°C	5.90 kW	5.38 kW
COP Tj = 12°C	8.09	5.62
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	8.77 kW	8.37 kW
COP Tj = Tbiv	3.40	2.28
Pdh Tj = TOL	8.77 kW	8.37 kW
COP Tj = TOL	3.40	2.28
Cdh	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	electrical	electrical
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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.99	0.99
Pdh Tj = +2°C	4.16 kW	3.65 kW
COP Tj = +2°C	4.61	3.18
Cdh	0.99	0.99
Pdh Tj = +7°C	5.14 kW	4.78 kW
COP Tj = +7°C	6.68	5.03
Cdh	0.99	0.99
Pdh Tj = 12°C	6.00 kW	5.75 kW
COP Tj = 12°C	8.83	7.30
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.52 kW	4.95 kW
COP Tj = Tbiv	2.13	1.47
Pdh Tj = TOL	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = TOL	1.21	0.32
Cdh	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	electrical	electrical
Supplementary Heater: PSUP	6.77 kW	6.07 kW
Annual energy consumption Qhe	16466 kWh	14650 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
		Average climate
Declared load profile	XL	XL
Efficiency η_{DHW}	125 %	125 %
COP	2.97	2.97
Heating up time	1:22 h:min	1:22 h:min
Standby power input	26.0 W	26.0 W
Reference hot water temperature	23.1 °C	23.1 °C
Mixed water at 40°C	291 l	291 l

Warmer Climate

Colder Climate