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Summary of	Vitocal 100-S/111-S 4-6kW 230V	Reg. No.	011-1W0401
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 4-6kW 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	0.95 kg		
Certification Date	02.11.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: Vitocal 100-S AWB-M 101.B04

Configure model	
Model name	Vitocal 100-S AWB-M 101.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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

Warmer Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	150 %
Prated	4.90 kW	4.10 kW
SCOP	5.01	3.83
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.94 kW	4.08 kW
COP Tj = +2°C	3.04	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.07 kW	2.95 kW
COP Tj = +7°C	5.03	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.57 kW	3.31 kW
COP Tj = 12°C	5.89	5.18
Cdh Tj = +12 °C	0.99	0.99

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Pdh Tj = Tbiv	4.94 kW	4.08 kW
COP Tj = Tbiv	3.04	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
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	6552 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.76 kW	1.85 kW
COP Tj = -7°C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.23 kW	2.09 kW
COP Tj = +2°C	4.44	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	126 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
COP Tj = +2°C	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49

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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
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Model: Vitocal 100-S AWB-M-E 101.B04

Configure model	
Model name	Vitocal 100-S AWB-M-E 101.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
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Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.07 kW	2.95 kW
COP Tj = +7°C	5.03	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.57 kW	3.31 kW
COP Tj = 12°C	5.89	5.18
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
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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	6552 kWh	5450 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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	Low temperature	Medium temperature
η_s	135 %	86 %
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SCOP	3.46	2.22
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COP Tj = -7°C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.23 kW	2.09 kW
COP Tj = +2°C	4.44	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	126 %	

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Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
COP Tj = +2°C	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Model: Vitocal 100-S AWB-M-E-AC 101.B04

Configure model	
Model name	Vitocal 100-S AWB-M-E-AC 101.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	150 %
Prated	4.90 kW	4.10 kW
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Pdh Tj = +2°C	4.94 kW	4.08 kW
COP Tj = +2°C	3.04	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.07 kW	2.95 kW
COP Tj = +7°C	5.03	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.57 kW	3.31 kW
COP Tj = 12°C	5.89	5.18
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
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	6552 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.76 kW	1.85 kW
COP Tj = -7°C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.23 kW	2.09 kW
COP Tj = +2°C	4.44	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	126 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	3.51 kW	3.31 kW
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Pdh Tj = +2°C	2.45 kW	2.65 kW
COP Tj = +2°C	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
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Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49

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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
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Model: Vitocal 100-S AWB-M-E-AC 101.B04 F

Configure model	
Model name	Vitocal 100-S AWB-M-E-AC 101.B04 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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	150 %
Prated	4.90 kW	4.10 kW
SCOP	5.01	3.83
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.94 kW	4.08 kW
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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	6552 kWh	5450 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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Tbiv	-15 °C	-15 °C
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Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	126 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
COP Tj = +2°C	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Model: Vitocal 111-S AWBT-M-AC 111.B04

Configure model	
Model name	Vitocal 111-S AWBT-M-AC 111.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	126 %	
Prated	4.00 kW	3.70 kW	
SCOP	4.45	3.22	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	3.51 kW	3.31 kW	
COP T _j = -7°C	2.84	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	2.45 kW	2.65 kW	
COP T _j = +2°C	2.84	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.14 kW	2.74 kW	
COP T _j = +7°C	5.97	4.36	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E 111.B04

Configure model	
Model name	Vitocal 111-S AWBT-M-E 111.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	126 %	
Prated	4.00 kW	3.70 kW	
SCOP	4.45	3.22	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	3.51 kW	3.31 kW	
COP T _j = -7°C	2.84	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	2.45 kW	2.65 kW	
COP T _j = +2°C	2.84	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.14 kW	2.74 kW	
COP T _j = +7°C	5.97	4.36	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E-AC 111.B04

Configure model	
Model name	Vitocal 111-S AWBT-M-E-AC 111.B04
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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	126 %	
Prated	4.00 kW	3.70 kW	
SCOP	4.45	3.22	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	3.51 kW	3.31 kW	
COP T _j = -7°C	2.84	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	2.45 kW	2.65 kW	
COP T _j = +2°C	2.84	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.14 kW	2.74 kW	
COP T _j = +7°C	5.97	4.36	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.2 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 100-S AWB-M 101.B06

Configure model	
Model name	Vitocal 100-S AWB-M 101.B06
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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
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	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	125 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
COP Tj = -7°C	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
COP Tj = +7°C	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Model: Vitocal 100-S AWB-M-E 101.B06

Configure model	
Model name	Vitocal 100-S AWB-M-E 101.B06
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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
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	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	125 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
COP Tj = -7°C	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
COP Tj = +7°C	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Model: Vitocal 100-S AWB-M-E-AC 101.B06

Configure model	
Model name	Vitocal 100-S AWB-M-E-AC 101.B06
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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
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	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	125 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
COP Tj = -7°C	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
COP Tj = +7°C	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Model: Vitocal 100-S AWB-M-E-AC 101.B06 F

Configure model	
Model name	Vitocal 100-S AWB-M-E-AC 101.B06 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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
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	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
η_s	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

This information was generated by the HP KEYMARK database on 22 Jun 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
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	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	125 %	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
COP Tj = -7°C	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
COP Tj = +7°C	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Model: Vitocal 111-S AWBT-M-AC 111.B06

Configure model

Model name	Vitocal 111-S AWBT-M-AC 111.B06
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
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	125 %	
P _{rated}	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.53 kW	3.31 kW	
COP T _j = -7°C	2.85	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	3.04 kW	2.65 kW	
COP T _j = +2°C	4.30	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.11 kW	2.74 kW	
COP T _j = +7°C	5.93	4.76	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E 111.B06

Configure model	
Model name	Vitocal 111-S AWBT-M-E 111.B06
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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	125 %	
P _{rated}	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.53 kW	3.31 kW	
COP T _j = -7°C	2.85	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	3.04 kW	2.65 kW	
COP T _j = +2°C	4.30	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.11 kW	2.74 kW	
COP T _j = +7°C	5.93	4.76	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E-AC 111.B06

Configure model	
Model name	Vitocal 111-S AWBT-M-E-AC 111.B06
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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	125 %	
P _{rated}	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.53 kW	3.31 kW	
COP T _j = -7°C	2.85	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	3.04 kW	2.65 kW	
COP T _j = +2°C	4.30	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.11 kW	2.74 kW	
COP T _j = +7°C	5.93	4.76	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E-AC 111.B06 F

Configure model	
Model name	Vitocal 111-S AWBT-M-E-AC 111.B06 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	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
COP	4.90	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	125 %	
P _{rated}	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.53 kW	3.31 kW	
COP T _j = -7°C	2.85	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	3.04 kW	2.65 kW	
COP T _j = +2°C	4.30	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.11 kW	2.74 kW	
COP T _j = +7°C	5.93	4.76	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
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	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l

Model: Vitocal 111-S AWBT-M-E-AC 111.B04 F

Configure model	
Model name	Vitocal 111-S AWBT-M-E-AC 111.B04 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	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
COP	5.10	2.42

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	62 dB(A)	62 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	3.70 kW		
η_s	175 %	126 %	
Prated	4.00 kW	3.70 kW	
SCOP	4.45	3.22	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	3.51 kW	3.31 kW	
COP T _j = -7°C	2.84	1.89	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	2.45 kW	2.65 kW	
COP T _j = +2°C	2.84	3.18	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	3.14 kW	2.74 kW	
COP T _j = +7°C	5.97	4.36	

This information was generated by the HP KEYMARK database on 22 Jun 2022

Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
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	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1 l