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Summary of	Vitocal 2xx-S ODU1	Reg. No.	011-1W0199
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 2xx-S ODU1		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.8 kg		
Certification Date	15.03.2018		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: Vitocal 200-S AWB-M-E-AC 201.D04

Configure model	
Model name	Vitocal 200-S AWB-M-E-AC 201.D04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.38 kW		
η_s	173 %	124 %	
P _{rated}	5.38 kW	5.23 kW	
SCOP	4.4	3.18	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.76 kW	4.63 kW	
COP T _j = -7°C	2.86	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.11 kW	
COP T _j = +2°C	4.33	3.07	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.77	4.19	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.14	5.50	

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Pdh Tj = Tbiv	4.76 kW	4.63 kW
COP Tj = Tbiv	2.86	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.33 kW	4.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 200-S AWB-M-E-AC 201.D06

Configure model	
Model name	Vitocal 200-S AWB-M-E-AC 201.D06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
Prated	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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

Pdh Tj = Tbiv	4.95 kW	4.95 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3605 kWh

Model: Vitocal 200-S AWB-M 201.D04

Configure model	
Model name	Vitocal 200-S AWB-M 201.D04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.38 kW		
η_s	173 %	124 %	
P _{rated}	5.38 kW	5.23 kW	
SCOP	4.4	3.18	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.76 kW	4.63 kW	
COP T _j = -7°C	2.86	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.11 kW	
COP T _j = +2°C	4.33	3.07	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.77	4.19	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.14	5.50	

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

Pdh Tj = Tbiv	4.76 kW	4.63 kW
COP Tj = Tbiv	2.86	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.33 kW	4.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 200-S AWB-M 201.D06

Configure model	
Model name	Vitocal 200-S AWB-M 201.D06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
Prated	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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

Pdh Tj = Tbiv	4.95 kW	4.95 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3605 kWh

Model: Vitocal 200-S AWB-E-M 201.D04

Configure model	
Model name	Vitocal 200-S AWB-E-M 201.D04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.38 kW		
η_s	173 %	124 %	
P _{rated}	5.38 kW	5.23 kW	
SCOP	4.4	3.18	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.76 kW	4.63 kW	
COP T _j = -7°C	2.86	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.11 kW	
COP T _j = +2°C	4.33	3.07	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.77	4.19	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.14	5.50	

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

Pdh Tj = Tbiv	4.76 kW	4.63 kW
COP Tj = Tbiv	2.86	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.33 kW	4.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 200-S AWB-E-M 201.D06

Configure model	
Model name	Vitocal 200-S AWB-E-M 201.D06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
Prated	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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

Pdh Tj = Tbiv	4.95 kW	4.95 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3447 kWh

Model: Vitocal 222-S AWBT-M 221.C04

Configure model	
Model name	Vitocal 222-S AWBT-M 221.C04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.21 kW		
η_s	176 %	126 %	
P _{rated}	5.21 kW	5.4 kW	
SCOP	4.49	3.22	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.61 kW	4.78 kW	
COP T _j = -7°C	2.87	2.02	
P _{dh} T _j = +2°C	3.42 kW	3.17 kW	
COP T _j = +2°C	4.50	3.16	
P _{dh} T _j = +7°C	3.17 kW	2.97 kW	
COP T _j = +7°C	5.76	4.18	
P _{dh} T _j = 12°C	2.95 kW	2.80 kW	
COP T _j = 12°C	6.95	5.35	

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

Pdh Tj = Tbiv	4.61 kW	4.78 kW
COP Tj = Tbiv	2.87	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	2.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 222-S AWBT-M 221.C06

Configure model	
Model name	Vitocal 222-S AWBT-M 221.C06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
Prated	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2569 kWh	3447 kWh

Model: Vitocal 222-S AWBT-M-E-AC 221.C04

Configure model	
Model name	Vitocal 222-S AWBT-M-E-AC 221.C04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.38 kW		
η_s	173 %	124 %	
P _{rated}	5.38 kW	5.23 kW	
SCOP	4.4	3.18	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	4.76 kW	4.63 kW	
COP T _j = -7°C	2.86	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.11 kW	
COP T _j = +2°C	4.33	3.07	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.77	4.19	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.14	5.50	

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

Pdh Tj = Tbiv	4.76 kW	4.63 kW
COP Tj = Tbiv	2.86	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.33 kW	4.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 222-S AWBT-M-E-AC 221.C06

Configure model	
Model name	Vitocal 222-S AWBT-M-E-AC 221.C06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
P _{rated}	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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

Pdh Tj = Tbiv	4.95 kW	4.95 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3605 kWh

Model: Vitocal 222-S AWBT-M-E 221.C04

Configure model	
Model name	Vitocal 222-S AWBT-M-E 221.C04
Application	Heating (medium 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	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
COP	4.56	2.64

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	39 dB(A)	39 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.38 kW		
η_s	173 %	124 %	
P _{rated}	5.38 kW	5.23 kW	
SCOP	4.4	3.18	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	4.76 kW	4.63 kW	
COP T _j = -7°C	2.86	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.11 kW	
COP T _j = +2°C	4.33	3.07	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.77	4.19	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.14	5.50	

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

Pdh Tj = Tbiv	4.76 kW	4.63 kW
COP Tj = Tbiv	2.86	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.33 kW	4.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

Model: Vitocal 222-S AWBT-M-E 221.C06

Configure model	
Model name	Vitocal 222-S AWBT-M-E 221.C06
Application	Heating (medium 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	4.75 kW	4.1 kW
El input	1.03 kW	1.51 kW
COP	4.6	2.72

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	39 dB(A)	39 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	5.59 kW		
η_s	172 %	125 %	
P _{rated}	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
T _{biv}	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
P _{dh} T _j = -7°C	4.95 kW	4.95 kW	
COP T _j = -7°C	2.83	2.03	
P _{dh} T _j = +2°C	3.00 kW	3.30 kW	
COP T _j = +2°C	4.33	3.11	
P _{dh} T _j = +7°C	3.15 kW	2.97 kW	
COP T _j = +7°C	5.81	4.22	
P _{dh} T _j = 12°C	3.05 kW	2.91 kW	
COP T _j = 12°C	7.20	5.51	

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

Pdh Tj = Tbiv	4.95 kW	4.95 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.49 kW	4.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3605 kWh