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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

Average Climate

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	

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COP Tj = +7°C	5.77	4.19
Pdh Tj = 12°C	3.05 kW	2.91 kW
COP Tj = 12°C	7.14	5.50
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

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)

Heating

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

EN 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

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

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

Average Climate

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

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

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

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

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

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

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 18 Mar 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

Average Climate

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	

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

COP Tj = +7°C	5.81	4.22
Pdh Tj = 12°C	3.05 kW	2.91 kW
COP Tj = 12°C	7.20	5.51
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

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)

Heating

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

EN 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

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 18 Mar 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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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	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 18 Mar 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 %	
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 18 Mar 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 18 Mar 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 %	
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 18 Mar 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