

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 Ko	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH	
Name of testing laboratory	Universität Stuttgart Institut für GebäudeEnergetik		
Subtype title	Vitocal 2xx-S ODU1		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a	R410a	
Mass Of Refrigerant	1.8 kg		

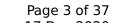


Model: Vitocal 200-S AWB-M-E-AC 201.D04

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{S}	173 %	124 %
Prated	5.38 kW	5.23 kW
SCOP	4.40	3.18
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.76 kW	4.63 kW
COP Tj = -7°C	2.86	2.03
Pdh Tj = +2°C	3.00 kW	3.11 kW
COP Tj = +2°C	4.33	3.07
Pdh Tj = +7°C	3.15 kW	2.97 kW
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





Annual energy consumption Qhe

This information was generated by the HP KEYMARK database on 17 Dec 2020 Pdh Tj = TOL4.33 kW 4.39 kW COPTj = TOL1.86 2.59 0.98 0.98 Cdh 60 °C 60 °C WTOL Poff 11 W 11 W PTO 0 W 0 W 16 W **PSB** 16 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input electrical electrical Supplementary Heater: PSUP 0.86 kW 1.07 kW

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)

2524 kWh

3292 kWh



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EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost 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
СОР	4.56	2.64
Indoor water flow rate	0.70 m³/h	0.70 m³/h

EN 14825		
Pdesignh	5.38 kW	
Rated airflow rate	2250 m³/h	



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

General Data	
Power supply	1x230V 50Hz

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.75 kW	4.40 kW
El input	1.03 kW	1.51 kW
СОР	4.60	2.91
Indoor water flow rate	0.82 m³/h	0.70 m³/h



EN 14825	
Pdesignh	5.59 kW
Rated airflow rate	2250 m³/h

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
η_{s}	172 %	125 %
Prated	5.59 kW	5.59 kW
SCOP	4.38	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.95 kW	4.95 kW
COP Tj = -7°C	2.83	2.03
Pdh Tj = +2°C	3.00 kW	3.30 kW
COP Tj = +2°C	4.33	3.11



Pdh Tj = +7°C	3.15 kW	2.97 kW
$COP Tj = +7^{\circ}C$	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	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	0 W	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply	1x230V 50Hz

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost 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
СОР	4.56	2.64
Indoor water flow rate	0.70 m³/h	0.70 m³/h



EN 14825	
Pdesignh	5.38 kW
Rated airflow rate	2250 m³/h

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
η_{s}	173 %	124 %
Prated	5.38 kW	5.23 kW
SCOP	4.40	3.18
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.76 kW	4.63 kW
$COPTj = -7^{\circ}C$	2.86	2.03
Pdh Tj = $+2$ °C	3.00 kW	3.11 kW
COP Tj = +2°C	4.33	3.07



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Pdh Tj = +7°C	3.15 kW	2.97 kW
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	4.33 kW	4.39 kW
COP Tj = TOL	2.59	1.86
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	0 W	0 W
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply	1x230V 50Hz

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.75 kW	4.40 kW
El input	1.03 kW	1.51 kW
СОР	4.60	2.91
Indoor water flow rate	0.82 m³/h	0.70 m³/h



EN 14825	
Pdesignh	5.59 kW
Rated airflow rate	2250 m³/h

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
η_{s}	172 %	125 %
Prated	5.59 kW	5.59 kW
SCOP	4.38	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.95 kW	4.95 kW
COP Tj = -7°C	2.83	2.03
Pdh Tj = +2°C	3.00 kW	3.30 kW
COP Tj = +2°C	4.33	3.11



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Pdh Tj = +7°C	3.15 kW	2.97 kW
$COP Tj = +7^{\circ}C$	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	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	0 W	o w
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply	1x230V 50Hz

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost 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
СОР	4.56	2.64
Indoor water flow rate	0.70 m³/h	0.70 m³/h



EN 14825	
Pdesignh	5.38 kW
Rated airflow rate	2250 m³/h

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
η_{s}	173 %	124 %
Prated	5.38 kW	5.23 kW
SCOP	4.40	3.18
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.76 kW	4.63 kW
$COPTj = -7^{\circ}C$	2.86	2.03
Pdh Tj = $+2$ °C	3.00 kW	3.11 kW
COP Tj = +2°C	4.33	3.07



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Pdh Tj = +7°C	3.15 kW	2.97 kW
$COP Tj = +7^{\circ}C$	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	4.33 kW	4.39 kW
COP Tj = TOL	2.59	1.86
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	o w	0 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.07 kW	0.86 kW
Annual energy consumption Qhe	2524 kWh	3292 kWh

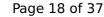


Model: Vitocal 200-S AWB-E-M 201.D06

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{S}	172 %	125 %
Prated	5.59 kW	5.59 kW
SCOP	4.38	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.95 kW	4.95 kW
COP Tj = -7°C	2.83	2.03
Pdh Tj = +2°C	3.00 kW	3.30 kW
COP Tj = +2°C	4.33	3.11
Pdh Tj = $+7^{\circ}$ C	3.15 kW	2.97 kW
$COPTj = +7^{\circ}C$	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





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Pdh Tj = TOL	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	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	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
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)



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EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.75 kW	4.40 kW
El input	1.03 kW	1.51 kW
СОР	4.60	2.91
Indoor water flow rate	0.82 m³/h	0.70 m³/h

EN 14825			
Pdesignh 5.59 kW			
Rated airflow rate 2250 m³/h			



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

General Data	
Power supply	1x230V 50Hz

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.96 kW	3.61 kW	
El input	0.87 kW	1.37 kW	
СОР	4.56	2.64	
Indoor water flow rate	0.70 m³/h	0.70 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825		
Pdesignh	5.21 kW	
Rated airflow rate 2250 m³/h		

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
η_{s}	176 %	126 %
Prated	5.21 kW	5.40 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	4.61 kW	4.78 kW
$COPTj = -7^{\circ}C$	2.87	2.02
Pdh Tj = $+2$ °C	3.42 kW	3.17 kW
COP Tj = +2°C	4.50	3.16



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Pdh Tj = +7°C	3.17 kW	2.97 kW
$COP Tj = +7^{\circ}C$	5.76	4.18
Pdh Tj = 12°C	2.95 kW	2.80 kW
COP Tj = 12°C	6.95	5.35
Pdh Tj = Tbiv	4.61 kW	4.78 kW
COP Tj = Tbiv	2.87	2.02
Pdh Tj = TOL	5.12 kW	2.62 kW
COP Tj = TOL	2.62	1.02
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	o w	o w
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply	1x230V 50Hz

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.75 kW	4.40 kW
El input	1.03 kW	1.51 kW
СОР	4.60	2.91
Indoor water flow rate	0.82 m³/h	0.70 m³/h

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825	
Pdesignh	5.59 kW
Rated airflow rate	2250 m³/h

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
η_{s}	172 %	125 %
Prated	5.59 kW	5.59 kW
SCOP	4.38	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.95 kW	4.95 kW
COP Tj = -7°C	2.83	2.03
Pdh Tj = +2°C	3.00 kW	3.30 kW
$COP Tj = +2^{\circ}C$	4.33	3.11



Pdh Tj = +7°C	3.15 kW	2.97 kW
$COP Tj = +7^{\circ}C$	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	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	o w	0 W
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply	1x230V 50Hz

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
СОР	4.56	2.64
Indoor water flow rate	0.70 m³/h	0.70 m³/h

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825	
Pdesignh	5.38 kW
Rated airflow rate	2250 m³/h

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
η_{s}	173 %	124 %
Prated	5.38 kW	5.23 kW
SCOP	4.40	3.18
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.76 kW	4.63 kW
COP Tj = -7°C	2.86	2.03
Pdh Tj = +2°C	3.00 kW	3.11 kW
COP Tj = +2°C	4.33	3.07



This information was get	Terated by the Till RETT	Title database on 17 Dec 2020
Pdh Tj = +7°C	3.15 kW	2.97 kW
$COP Tj = +7^{\circ}C$	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	4.33 kW	4.39 kW
COP Tj = TOL	2.59	1.86
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	o w	o w
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply 1x230V 50Hz	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.75 kW	4.40 kW
El input	1.03 kW	1.51 kW
СОР	4.60	2.91
Indoor water flow rate	0.82 m³/h	0.70 m³/h

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825	
Pdesignh	5.59 kW
Rated airflow rate	2250 m³/h

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
η_{s}	172 %	125 %
Prated	5.59 kW	5.59 kW
SCOP	4.38	3.21
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.95 kW	4.95 kW
COP Tj = -7°C	2.83	2.03
Pdh Tj = +2°C	3.00 kW	3.30 kW
$COP Tj = +2^{\circ}C$	4.33	3.11



 $$\operatorname{\textit{Page}}\ 31$$ of 37 This information was generated by the HP KEYMARK database on 17 Dec 2020

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Pdh Tj = $+7^{\circ}$ C	3.15 kW	2.97 kW
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	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	o w	o w
PSB	16 W	16 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
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

General Data	
Power supply 1x230V 50Hz	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.96 kW	3.61 kW
El input	0.87 kW	1.37 kW
СОР	4.56	2.64
Indoor water flow rate	0.70 m³/h	0.70 m³/h

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825		
Pdesignh	5.38 kW	
Rated airflow rate	2250 m³/h	

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	
173 %	124 %	
5.38 kW	5.23 kW	
4.40	3.18	
-7 °C	-7 °C	
-10 °C	-10 °C	
4.76 kW	4.63 kW	
2.86	2.03	
3.00 kW	3.11 kW	
4.33	3.07	
	Low temperature 173 % 5.38 kW 4.40 -7 °C -10 °C 4.76 kW 2.86 3.00 kW	



This information was generated by the Til Kernstill addabase on 17 Bee 2020			
Pdh Tj = $+7^{\circ}$ C	3.15 kW	2.97 kW	
$COP Tj = +7^{\circ}C$	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	4.33 kW	4.39 kW	
COP Tj = TOL	2.59	1.86	
Cdh	0.98	0.98	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	o w	o w	
PSB	16 W	16 W	
PCK	o w	o w	
Supplementary Heater: Type of energy input	electrical	electrical	
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

General Data	
Power supply 1x230V 50Hz	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.75 kW	4.40 kW	
El input	1.03 kW	1.51 kW	
СОР	4.60	2.91	
Indoor water flow rate	0.82 m³/h	0.70 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 14825		
Pdesignh	5.59 kW	
Rated airflow rate	2250 m³/h	

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	
η_{S}	172 %	125 %	
Prated	5.59 kW	5.59 kW	
SCOP	4.38	3.21	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7 °C	4.95 kW	4.95 kW	
COP Tj = -7 °C	2.83	2.03	
Pdh Tj = $+2$ °C	3.00 kW	3.30 kW	
COP Tj = +2°C	4.33	3.11	



$$\operatorname{\textit{Page}}\xspace$ 37 of 37 This information was generated by the HP KEYMARK database on 17 Dec 2020

	<u> </u>	
Pdh Tj = +7°C	3.15 kW	2.97 kW
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	4.49 kW	4.68 kW
COP Tj = TOL	2.56	1.85
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	0 W	o w
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.13 kW	0.94 kW
Annual energy consumption Qhe	2637 kWh	3605 kWh