Summary of	Vitocal 2xx-A ODU3	Reg. No.	011-1W0148
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Universität Stuttgart Institut für GebäudeEnergetik		
Subtype title	Vitocal 2xx-A ODU3		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.4 kg		

Model: Vitocal 200-A AWO-M 201.A10

General Data	
Power supply	1x230V 50Hz

Heating

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	7.01 kW	7.93 kW
El input	1.49 kW	2.73 kW
COP	4.69	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.32 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	176 %	129 %
Prated	9.32 kW	9.35 kW
SCOP	4.47	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.25 kW	8.27 kW
COP Tj = -7°C	3.24	2.26
Pdh Tj = +2°C	5.32 kW	6.07 kW
COP Tj = +2°C	4.32	3.15

Pdh Tj = +7°C	6.60 kW	5.37 kW
COP Tj = +7°C	5.81	4.21
Pdh Tj = 12°C	6.63 kW	6.41 kW
COP Tj = 12°C	7.51	5.70
Pdh Tj = Tbiv	8.25 kW	8.27 kW
COP Tj = Tbiv	3.24	2.26
Pdh Tj = TOL	7.51 kW	8.04 kW
COP Tj = TOL	2.90	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.86 kW	1.36 kW
Annual energy consumption Qhe	4314 kWh	5867 kWh

Model: Vitocal 200-A AWO-M 201.A13

General Data	
Power supply	1x230V 50Hz

Heating

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	7.85 kW	7.93 kW
El input	1.66 kW	2.73 kW
COP	4.72	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.99 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	130 %
Prated	9.99 kW	10.07 kW
SCOP	4.46	3.32
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.83 kW	8.91 kW
COP Tj = -7°C	3.19	2.27
Pdh Tj = +2°C	5.71 kW	5.90 kW
COP Tj = +2°C	4.30	3.17

Pdh Tj = +7°C	8.86 kW	5.38 kW
COP Tj = +7°C	5.63	4.24
Pdh Tj = 12°C	6.65 kW	6.42 kW
COP Tj = 12°C	7.64	5.72
Pdh Tj = Tbiv	8.83 kW	8.91 kW
COP Tj = Tbiv	3.19	2.27
Pdh Tj = TOL	8.06 kW	8.59 kW
COP Tj = TOL	2.86	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.98 kW	1.54 kW
Annual energy consumption Qhe	4625 kWh	6275 kWh

Model: Vitocal 200-A AWO-M 201.A16

General Data	
Power supply	1x230V 50Hz

Heating

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	8.64 kW	8.42 kW
El input	1.90 kW	2.89 kW
COP	4.54	2.92
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	10.61 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	130 %
Prated	10.61 kW	10.72 kW
SCOP	4.46	3.34
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.39 kW	9.49 kW
COP Tj = -7°C	3.12	2.26
Pdh Tj = +2°C	5.72 kW	5.91 kW
COP Tj = +2°C	4.29	3.19

Pdh Tj = +7°C	8.88 kW	5.39 kW
COP Tj = +7°C	5.68	4.27
Pdh Tj = 12°C	6.67 kW	6.42 kW
COP Tj = 12°C	7.74	5.75
Pdh Tj = Tbiv	9.39 kW	9.49 kW
COP Tj = Tbiv	3.12	2.26
Pdh Tj = TOL	8.55 kW	9.21 kW
COP Tj = TOL	2.80	2.05
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	59 W	59 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	2.11 kW	1.57 kW
Annual energy consumption Qhe	4917 kWh	6638 kWh

Model: Vitocal 200-A AWO-M-E -AC 201.A10

General Data	
Power supply	1x230V 50Hz

Heating

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	7.01 kW	7.93 kW
El input	1.49 kW	2.73 kW
COP	4.69	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.32 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	176 %	129 %
Prated	9.32 kW	9.35 kW
SCOP	4.47	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.25 kW	8.27 kW
COP Tj = -7°C	3.24	2.26
Pdh Tj = +2°C	5.32 kW	6.07 kW
COP Tj = +2°C	4.32	3.15

Pdh Tj = +7°C	6.60 kW	5.37 kW
COP Tj = +7°C	5.81	4.21
Pdh Tj = 12°C	6.63 kW	6.41 kW
COP Tj = 12°C	7.51	5.70
Pdh Tj = Tbiv	8.25 kW	8.27 kW
COP Tj = Tbiv	3.24	2.26
Pdh Tj = TOL	7.51 kW	8.04 kW
COP Tj = TOL	2.90	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.86 kW	1.36 kW
Annual energy consumption Qhe	4314 kWh	5867 kWh

Model: Vitocal 200-A AWO-M-E-AC 201.A13

General Data	
Power supply	1x230V 50Hz

Heating

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	7.85 kW	7.93 kW
El input	1.66 kW	2.73 kW
COP	4.72	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.99 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	130 %
Prated	9.99 kW	10.07 kW
SCOP	4.46	3.32
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.83 kW	8.91 kW
COP Tj = -7°C	3.19	2.27
Pdh Tj = +2°C	5.71 kW	5.90 kW
COP Tj = +2°C	4.30	3.17

Pdh Tj = +7°C	8.86 kW	5.38 kW
COP Tj = +7°C	5.63	4.24
Pdh Tj = 12°C	6.65 kW	6.42 kW
COP Tj = 12°C	7.64	5.72
Pdh Tj = Tbiv	8.83 kW	8.91 kW
COP Tj = Tbiv	3.19	2.27
Pdh Tj = TOL	8.06 kW	8.59 kW
COP Tj = TOL	2.86	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.98 kW	1.54 kW
Annual energy consumption Qhe	4625 kWh	6275 kWh

Model: Vitocal 200-A AWO-M-E-AC 201.A16

General Data	
Power supply	1x230V 50Hz

Heating

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	8.64 kW	8.42 kW
El input	1.90 kW	2.89 kW
COP	4.54	2.92
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	10.61 kW
Rated airflow rate	4500 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	130 %
Prated	10.61 kW	10.72 kW
SCOP	4.46	3.34
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.39 kW	9.49 kW
COP Tj = -7°C	3.12	2.26
Pdh Tj = +2°C	5.72 kW	5.91 kW
COP Tj = +2°C	4.29	3.19

Pdh Tj = +7°C	8.88 kW	5.39 kW
COP Tj = +7°C	5.68	4.27
Pdh Tj = 12°C	6.67 kW	6.42 kW
COP Tj = 12°C	7.74	5.75
Pdh Tj = Tbiv	9.39 kW	9.49 kW
COP Tj = Tbiv	3.12	2.26
Pdh Tj = TOL	8.55 kW	9.21 kW
COP Tj = TOL	2.80	2.05
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	59 W	59 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	2.11 kW	1.57 kW
Annual energy consumption Qhe	4917 kWh	6638 kWh

Model: Vitocal 200-A AWO-E-M 201.A10

General Data	
Power supply	1x230V 50Hz

Heating

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	7.01 kW	7.93 kW
El input	1.49 kW	2.73 kW
COP	4.69	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.32 kW
Rated airflow rate	4500 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	176 %	129 %
Prated	9.32 kW	9.35 kW
SCOP	4.47	3.29
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	8.25 kW	8.27 kW
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Pdh Tj = +2°C	5.32 kW	6.07 kW
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COP Tj = +7°C	5.81	4.21
Pdh Tj = 12°C	6.63 kW	6.41 kW
COP Tj = 12°C	7.51	5.70
Pdh Tj = Tbiv	8.25 kW	8.27 kW
COP Tj = Tbiv	3.24	2.26
Pdh Tj = TOL	7.51 kW	8.04 kW
COP Tj = TOL	2.90	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.86 kW	1.36 kW
Annual energy consumption Qhe	4314 kWh	5867 kWh

Model: Vitocal 200-A AWO-E-M 201.A13

General Data	
Power supply	1x230V 50Hz

Heating

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	7.85 kW	7.93 kW
El input	1.66 kW	2.73 kW
COP	4.72	2.90
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	9.99 kW
Rated airflow rate	4500 m³/h

Average Climate

EN 12102-1		
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	Low temperature	**Medium temperature**
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COP Tj = Tbiv	3.19	2.27
Pdh Tj = TOL	8.06 kW	8.59 kW
COP Tj = TOL	2.86	2.04
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	1.98 kW	1.54 kW
Annual energy consumption Qhe	4625 kWh	6275 kWh

Model: Vitocal 200-A AWO-E-M 201.A16

General Data	
Power supply	1x230V 50Hz

Heating

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	8.64 kW	8.42 kW
El input	1.90 kW	2.89 kW
COP	4.54	2.92
Indoor water flow rate	1.40 m³/h	1.40 m³/h

EN 14825	
Pdesignh	10.61 kW
Rated airflow rate	4500 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	130 %
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Pdh Tj = +7°C	8.88 kW	5.39 kW
COP Tj = +7°C	5.68	4.27
Pdh Tj = 12°C	6.67 kW	6.42 kW
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COP Tj = Tbiv	3.12	2.26
Pdh Tj = TOL	8.55 kW	9.21 kW
COP Tj = TOL	2.80	2.05
Cdh	0.98	0.99
WTOL	60 °C	60 °C
Poff	59 W	59 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	2.11 kW	1.57 kW
Annual energy consumption Qhe	4917 kWh	6638 kWh