

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Vitocal 3xx-G C16	Reg. No.	011-1W0212
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	Heat Pump Test Center WPZ		
Subtype title	Vitocal 3xx-G C16		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.25 kg		
Certification Date	18.08.2020		

Model: VITOCAL 300-G BWC 301.C16

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	7.51 kW	6.78 kW
El input	1.51 kW	2.83 kW
COP	5.00	2.83
Indoor water flow rate	1.30 m ³ /h	1.10 m ³ /h

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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	13.00 kW		
η_s	217 %	159 %	
P _{rated}	13.09 kW	15.29 kW	
SCOP	5.63	4.17	
T _{biv}	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	11.43 kW	14.21 kW	
COP T _j = -7°C	4.81	3.21	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	7.24 kW	8.74 kW	
COP T _j = +2°C	5.68	4.14	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	4.88 kW	5.75 kW	
COP T _j = +7°C	6.06	4.72	
C _{dh}	0.99	0.99	

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Pdh Tj = 12°C	3.85 kW	3.80 kW
COP Tj = 12°C	6.00	5.24
Cdh	0.99	0.99
Pdh Tj = Tbiv	13.09 kW	15.29 kW
COP Tj = Tbiv	4.56	2.97
Pdh Tj = TOL	13.09 kW	15.29 kW
COP Tj = TOL	4.56	2.97
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	15 W	15 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0 kW	0.71 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4763 kWh	7914 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

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EN 14825		
	Low temperature	Medium temperature
η_s	215 %	155 %
Prated	14.00 kW	15.30 kW
SCOP	5.59	4.08
Tbiv	-10 °C	-10 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.00 kW	15.30 kW
COP Tj = +2°C	4.48	2.97
Cdh	0.99	0.99
Pdh Tj = +7°C	9.03 kW	10.43 kW
COP Tj = +7°C	5.42	3.72
Cdh	0.99	0.99
Pdh Tj = 12°C	4.12 kW	4.68 kW
COP Tj = 12°C	5.96	4.75
Cdh	0.99	0.99
Pdh Tj = Tbiv	14.00 kW	15.30 kW
COP Tj = Tbiv	4.48	2.97
Pdh Tj = TOL	14.00 kW	15.30 kW
COP Tj = TOL	4.48	2.97
Cdh	0.99	0.99

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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	15 W	15 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0 kW	0.70 kW
Annual energy consumption Qhe	3341 kWh	5183 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	224 %	162 %
Prated	14.15 kW	15.28 kW
SCOP	6.79	4.25
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C

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Pdh Tj = -7°C	8.57 kW	9.88 kW
COP Tj = -7°C	5.62	3.91
Cdh	0.99	0.99
Pdh Tj = +2°C	5.24 kW	6.08 kW
COP Tj = +2°C	6.13	4.64
Cdh	0.99	0.99
Pdh Tj = +7°C	3.79 kW	4.02 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.99	0.99
Pdh Tj = 12°C	3.82 kW	3.81 kW
COP Tj = 12°C	5.83	5.32
Cdh	0.99	0.99
Pdh Tj = Tbiv	14.15 kW	15.28 kW
COP Tj = Tbiv	4.47	2.96
Pdh Tj = TOL	14.15 kW	15.28 kW
COP Tj = TOL	4.47	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	15 W	15 W
PSB	0 W	0 W

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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0 kW	0.72 kW
Annual energy consumption Q _{he}	5953 kWh	9187 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	11.55	12.76
COP T _j = -15°C (if TOL<-20°C)	5.01	3.40
C _{dh}	0.99	0.99

Model: VITOCAL 300-G BWC 301.C16 SC

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