

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

Summary of	Vitocal 3xx-G C12	Reg. No.	011-1W0292
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 C12		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	11.07.2019		

Model: VITOCAL 300-G BWC 301.C12

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.31 kW	4.74 kW
El input	1.11 kW	1.68 kW
COP	4.72	2.82
Indoor water flow rate	0.92 m ³ /h	0.70 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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	12.00 kW		
η_s	205 %	151 %	
P _{rated}	12.00 kW	12.00 kW	
SCOP	5.32	3.97	
T _{biv}	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	11.07 kW	10.86 kW	
COP T _j = -7°C	4.26	3.05	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	6.75 kW	6.66 kW	
COP T _j = +2°C	5.28	3.91	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	4.56 kW	4.41 kW	
COP T _j = +7°C	6.03	4.57	
C _{dh}	0.98	0.98	

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Pdh Tj = 12°C	2.46 kW	2.37 kW
COP Tj = 12°C	6.03	4.93
Cdh	0.96	0.97
Pdh Tj = Tbiv	11.49 kW	10.86 kW
COP Tj = Tbiv	4.09	2.92
Pdh Tj = TOL	11.49 kW	10.86 kW
COP Tj = TOL	4.09	2.92
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.51 kW	1.14 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4661 kWh	6242 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

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

EN 14825		
	Low temperature	Medium temperature
η_s	201 %	154 %
Prated	12.00 kW	12.00 kW
SCOP	5.09	4.06
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.48 kW	10.83 kW
COP Tj = +2°C	4.08	2.91
Cdh	0.99	0.99
Pdh Tj = +7°C	10.97 kW	7.97 kW
COP Tj = +7°C	4.51	3.53
Cdh	0.99	0.99
Pdh Tj = 12°C	6.74 kW	3.50 kW
COP Tj = 12°C	5.89	4.80
Cdh	0.99	0.98
Pdh Tj = Tbiv	11.48 kW	10.83 kW
COP Tj = Tbiv	4.08	2.91
Pdh Tj = TOL	11.48 kW	10.83 kW
COP Tj = TOL	4.08	2.91
Cdh	0.99	0.99

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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.52 kW	0.00 kW
Annual energy consumption Qhe	3150 kWh	3951 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	211 %	157 %
Prated	12.00 kW	12.00 kW
SCOP	5.48	4.12
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C

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Pdh Tj = -7°C	7.70 kW	7.62 kW
COP Tj = -7°C	5.18	3.71
Cdh	0.99	0.99
Pdh Tj = +2°C	4.56 kW	4.52 kW
COP Tj = +2°C	6.03	4.47
Cdh	0.98	0.99
Pdh Tj = +7°C	3.02 kW	3.02 kW
COP Tj = +7°C	6.17	4.90
Cdh	0.97	0.98
Pdh Tj = 12°C	2.43 kW	2.40 kW
COP Tj = 12°C	5.78	5.16
Cdh	0.95	0.97
Pdh Tj = Tbiv	11.45 kW	10.86 kW
COP Tj = Tbiv	4.09	2.92
Pdh Tj = TOL	11.45 kW	10.86 kW
COP Tj = TOL	4.09	2.92
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 W

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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.55 kW	0.14 kW
Annual energy consumption Q _{he}	5324 kWh	7182 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	9.70	9.35
COP T _j = -15°C (if TOL<-20°C)	4.60	3.29
C _{dh}	0.99	0.99

Model: VITOCAL 300-G BWC 301.C12 SC

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.31 kW	4.74 kW
El input	1.11 kW	1.68 kW
COP	4.72	2.82
Indoor water flow rate	0.92 m ³ /h	0.70 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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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.51 kW	1.14 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4661 kWh	6242 kWh

Warmer Climate

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Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.52 kW	0.00 kW
Annual energy consumption Qhe	3150 kWh	3951 kWh

Colder Climate

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	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.55 kW	0.14 kW
Annual energy consumption Qhe	5324 kWh	7182 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.70	9.35
COP Tj = -15°C (if TOL<-20°C)	4.60	3.29
Cdh	0.99	0.99

Model: VITOCAL 333-G BWT 331.C12

General Data

Power supply	3x400V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.31 kW	4.74 kW
El input	1.11 kW	1.68 kW
COP	4.72	2.82
Indoor water flow rate	0.92 m ³ /h	0.70 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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PSB	12 W	12 W
PCK	0 W	0 W
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Supplementary Heater: PSUP	0.51 kW	1.14 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4661 kWh	6242 kWh

Warmer Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825

	Low temperature	Medium temperature
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SCOP	5.09	4.06
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.48 kW	10.83 kW
COP Tj = +2°C	4.08	2.91
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COP Tj = +7°C	4.51	3.53
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Cdh	0.99	0.98
Pdh Tj = Tbiv	11.48 kW	10.83 kW

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COP $T_j = T_{biv}$	4.08	2.91
P _{dh} $T_j = TOL$	11.48 kW	10.83 kW
COP $T_j = TOL$	4.08	2.91
C _{dh}	0.99	0.99
WTOL	65 °C	65 °C
P _{off}	0 W	0 W
P _{TO}	0 W	0 W
P _{SB}	12 W	12 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: P _{SUP}	0.52 kW	0.00 kW
Annual energy consumption Q _{he}	3150 kWh	3951 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	211 %	157 %

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

Prated	12.00 kW	12.00 kW
SCOP	5.48	4.12
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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.55 kW	0.14 kW
Annual energy consumption Qhe	5324 kWh	7182 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.70	9.35
COP Tj = -15°C (if TOL<-20°C)	4.60	3.29
Cdh	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.16
Heating up time	1:17 h:min
Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.16
Heating up time	1:17 h:min
Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l

Colder Climate

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COP	3.16
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Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l

Model: VITOCAL 333-G BWT 331.C12 SC

General Data

Power supply	3x400V 50Hz
Off-peak product	Yes

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.31 kW	4.74 kW
El input	1.11 kW	1.68 kW
COP	4.72	2.82
Indoor water flow rate	0.92 m ³ /h	0.70 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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825

		Low temperature	Medium temperature
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P _{rated}	12.00 kW	12.00 kW	
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TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	11.07 kW	10.86 kW	
COP T _j = -7°C	4.26	3.05	
C _{dh}	0.99	0.99	
P _{dh} T _j = +2°C	6.75 kW	6.66 kW	
COP T _j = +2°C	5.28	3.91	
C _{dh}	0.99	0.99	
P _{dh} T _j = +7°C	4.56 kW	4.41 kW	
COP T _j = +7°C	6.03	4.57	
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Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.51 kW	1.14 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4661 kWh	6242 kWh

Warmer Climate

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	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

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COP $T_j = T_{biv}$	4.08	2.91
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COP $T_j = TOL$	4.08	2.91
C _{dh}	0.99	0.99
WTOL	65 °C	65 °C
P _{off}	0 W	0 W
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Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.52 kW	0.00 kW
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EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.16
Heating up time	1:17 h:min
Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.16
Heating up time	1:17 h:min
Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l

Colder Climate

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

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.16
Heating up time	1:17 h:min
Standby power input	51.0 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	315 l