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

Summary of	Vitocal 3xx-G C06	Reg. No.	011-1W0291
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 C06		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2 kg		
Certification Date	11.07.2019		

Model: VITOCAL 300-G BWC 301.C06

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73
Indoor water flow rate	0.74 m³/h	0.60 m³/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

EN 12102-1

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

EN 14825

		Low temperature	Medium temperature
Pdesignh	6.00 kW		
η_s	204 %	141 %	
Prated	6.00 kW	6.00 kW	
SCOP	5.29	3.72	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.33 kW	5.48 kW	
COP Tj = -7°C	4.63	3.06	
Cdh	0.99	0.99	
Pdh Tj = +2°C	3.27 kW	3.24 kW	
COP Tj = +2°C	5.33	3.77	
Cdh	0.98	0.98	
Pdh Tj = +7°C	2.17 kW	2.17 kW	
COP Tj = +7°C	5.59	4.06	
Cdh	0.96	0.97	

Pdh Tj = 12°C	1.77 kW	1.73 kW
COP Tj = 12°C	5.96	4.12
Cdh	0.95	0.96
Pdh Tj = Tbiv	5.90 kW	6.25 kW
COP Tj = Tbiv	4.48	2.87
Pdh Tj = TOL	5.90 kW	6.25 kW
COP Tj = TOL	4.48	2.87
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	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331 kWh	3329 kWh

Warmer 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	205 %	140 %
Prated	6.00 kW	6.00 kW
SCOP	5.19	3.71
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.67 kW	6.22 kW
COP Tj = +2°C	4.51	2.87
Cdh	0.99	0.99
Pdh Tj = +7°C	3.99 kW	3.86 kW
COP Tj = +7°C	5.16	3.43
Cdh	0.98	0.99
Pdh Tj = 12°C	1.77 kW	1.78 kW
COP Tj = 12°C	5.32	4.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.67 kW	6.22 kW
COP Tj = Tbiv	4.51	2.87
Pdh Tj = TOL	5.67 kW	6.22 kW
COP Tj = TOL	4.51	2.87
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	0.33 kW	0.00 kW
Annual energy consumption Qhe	1544 kWh	2163 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	205 %	148 %
Prated	6.00 kW	6.00 kW
SCOP	5.32	3.89
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C

Pdh Tj = -7°C	3.66 kW	3.71 kW
COP Tj = -7°C	5.42	3.62
Cdh	0.98	0.99
Pdh Tj = +2°C	3.10 kW	2.24 kW
COP Tj = +2°C	5.33	4.01
Cdh	0.96	0.99
Pdh Tj = +7°C	2.21 kW	1.70 kW
COP Tj = +7°C	5.93	4.94
Cdh	0.95	0.99
Pdh Tj = 12°C	1.76 kW	1.72 kW
COP Tj = 12°C	5.95	5.20
Cdh	0.95	0.99
Pdh Tj = Tbiv	6.08 kW	5.99 kW
COP Tj = Tbiv	4.46	2.87
Pdh Tj = TOL	6.08 kW	5.99 kW
COP Tj = TOL	4.46	2.87
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.92	4.92
COP Tj = -15°C (if TOL<-20°C)	4.91	3.22
Cdh	0.99	0.99

Model: VITOCAL 300-G BWC 301.C06 SC

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73
Indoor water flow rate	0.74 m³/h	0.60 m³/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

EN 12102-1

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

EN 14825

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Pdh Tj = TOL	5.90 kW	6.25 kW
COP Tj = TOL	4.48	2.87
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	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331 kWh	3329 kWh

Warmer Climate

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

EN 14825

	Low temperature	Medium temperature
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Pdh Tj = +7°C	3.99 kW	3.86 kW
COP Tj = +7°C	5.16	3.43
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Pdh Tj = 12°C	1.77 kW	1.78 kW
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COP Tj = Tbiv	4.51	2.87
Pdh Tj = TOL	5.67 kW	6.22 kW
COP Tj = TOL	4.51	2.87
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	0.33 kW	0.00 kW
Annual energy consumption Qhe	1544 kWh	2163 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	205 %	148 %
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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.92	4.92
COP Tj = -15°C (if TOL<-20°C)	4.91	3.22
Cdh	0.99	0.99

Model: VITOCAL 333-G BWT 331.C06

General Data	
Power supply	3x400V 50Hz
Off-peak product	Yes

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73
Indoor water flow rate	0.74 m³/h	0.60 m³/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

EN 12102-1

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

EN 14825

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Pdh Tj = TOL	5.90 kW	6.25 kW
COP Tj = TOL	4.48	2.87
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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	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331 kWh	3329 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
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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	0.33 kW	0.00 kW
Annual energy consumption Qhe	1544 kWh	2163 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**
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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.92	4.92
COP Tj = -15°C (if TOL<-20°C)	4.91	3.22
Cdh	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	127 %
COP	3.05
Heating up time	1:33 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
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Model: VITOCAL 333-G BWT 331.C06 SC

General Data	
Power supply	3x400V 50Hz
Off-peak product	Yes

Heating

EN 14511-2		
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Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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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	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331 kWh	3329 kWh

Warmer Climate

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Pdh Tj = TOL	6.08 kW	5.99 kW
COP Tj = TOL	4.46	2.87
Cdh	0.99	0.99

WTOL	65 °C	65 °C
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PTO	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
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