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Login

Summary of	Vitocal 3xx-G C16	Reg. No.	011-1W0212	
Certificate Holder				
Name	Viessmann Wärmepumpen	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft fo	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 3xx-G C16	Vitocal 3xx-G C16		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	3.25 kg	3.25 kg		
Certification Date	18.08.2020	18.08.2020		



Model: VITOCAL 300-G BWC 301.C16

Configure model		
Model name	VITOCAL 300-G BWC 301.C16	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.51 kW	6.78 kW	
El input	1.51 kW	2.83 kW	
СОР	5.00	2.83	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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}	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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	9.03 kW	10.43 kW
COP Tj = +7°C	5.42	3.72
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.12 kW	4.68 kW
COP Tj = 12°C	5.96	4.75
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	14.00 kW	15.30 kW

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COP Tj = Tbiv	4.48	2.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.00 kW	15.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
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 %
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This information was generated by the HP RETMARK database on 22 jun 202				
Prated	14.15 kW	15.28 kW		
SCOP	6.79	4.25		
Tbiv	-22 °C	-22 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = -7°C	8.57 kW	9.88 kW		
$COP Tj = -7^{\circ}C$	5.62	3.91		
Cdh Tj = -7 °C	0.99	0.99		
Pdh Tj = +2°C	5.24 kW	6.08 kW		
COP Tj = +2°C	6.13	4.64		
Cdh Tj = +2 °C	0.99	0.99		
Pdh Tj = $+7^{\circ}$ C	3.79 kW	4.02 kW		
$COPTj = +7^{\circ}C$	6.00	4.91		
Cdh Tj = +7 °C	0.99	0.99		
Pdh Tj = 12°C	3.82 kW	3.81 kW		
COP Tj = 12°C	5.83	5.32		
Cdh Tj = +12 °C	0.99	0.99		
Pdh Tj = Tbiv	14.15 kW	15.28 kW		
COP Tj = Tbiv	4.47	2.96		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.15 kW	15.28 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.47	2.96		
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0.72 kW
Annual energy consumption Qhe	5953 kWh	9187 kWh
Pdh Tj = -15°C (if TOL<-20°C)	11.55	12.76
COP Tj = -15°C (if TOL $<$ -20°C)	5.01	3.40
Cdh Tj = -15 °C	0.99	0.99

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	13.00 kW		-
η _s	217 %	159 %	





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Prated	13.09 kW	15.29 kW
SCOP	5.63	4.17
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.43 kW	14.21 kW
COP Tj = -7°C	4.81	3.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.24 kW	8.74 kW
COP Tj = +2°C	5.68	4.14
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.88 kW	5.75 kW
$COP Tj = +7^{\circ}C$	6.06	4.72
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.85 kW	3.80 kW
COP Tj = 12°C	6.00	5.24
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	13.09 kW	15.29 kW
COP Tj = Tbiv	4.56	2.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	15.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.97





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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	15 W	15 W
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0.71 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4763 kWh	7914 kWh



Model: VITOCAL 300-G BWC 301.C16 SC

Configure model		
Model name	VITOCAL 300-G BWC 301.C16 SC	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

	General Data	
Power supply	3x400V 50Hz	

Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	7.51 kW	6.78 kW		
El input	1.51 kW	2.83 kW		
СОР	5.00	2.83		

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

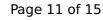
Warmer Climate



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}	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
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COP Tj = 12°C	5.96	4.75
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COP Tj = Tbiv 4.48 2.97 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 14.00 kW 15.30 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 4.48 2.97 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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 Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.99 WTOL 65 °C 65 °C Poff 0 W 15 W 15 W PSB 0 W 0 W PCK 0 W 0 W Electricity Supplementary Heater: Type of energy input Electricity 0 kW 0.70 kW	COP Tj = Tbiv	4.48	2.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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 Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.00 kW	15.30 kW
WTOL 65 °C 65 °C Poff 0 W 0 W PTO 15 W 15 W PSB 0 W 0 W PCK 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.97
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 Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
PTO 15 W 15 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	WTOL	65 °C	65 °C
PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	Poff	0 W	0 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	PTO	15 W	15 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0 kW 0.70 kW	PSB	o w	0 W
Supplementary Heater: PSUP 0 kW 0.70 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
224711111	Supplementary Heater: PSUP	0 kW	0.70 kW
Annual energy consumption Qne 3341 kWh 5183 kWh	Annual energy consumption Qhe	3341 kWh	5183 kWh

Colder Climate

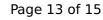
EN 12102-1			
Low temperature Medium temperature			
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E	N 14825	
	Low temperature	Medium temperature
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Average Climate

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

	EN 14825		
		Low temperature	Medium temperature
Pdesignh	13.00 kW		,
η_{s}	217 %	159 %	





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Prated	13.09 kW	15.29 kW
SCOP	5.63	4.17
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TOL	-10 °C	-10 °C
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Pdh Tj = Tbiv	13.09 kW	15.29 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	15.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.97



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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o w	o w
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PSB	o w	o w
PCK	o w	o w
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