

Summary of	Vitocal 3xx-G C12	Reg. No.	011-1W0292
Certificate Holder	-		-
Name	Viessmann Wärmepumpe	en 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	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.31 kW	4.74 kW	
El input	1.11 kW	1.68 kW	
СОР	4.72	2.82	
Indoor water flow rate	0.92 m³/h	0.70 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	41 dB(A)	41 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	12.00 kW		
η_{s}	205 %	151 %	
Prated	12.00 kW	12.00 kW	
SCOP	5.32	3.97	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.07 kW	10.86 kW	
COP Tj = -7°C	4.26	3.05	
Cdh	0.99	0.99	
Pdh Tj = +2°C	6.75 kW	6.66 kW	
COP Tj = +2°C	5.28	3.91	
Cdh	0.99	0.99	
Pdh Tj = +7°C	4.56 kW	4.41 kW	
COP Tj = +7°C	6.03	4.57	
Cdh	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
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	o 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)



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





	<u> </u>	
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	0 W	0 W
PSB	12 W	12 W
PCK	o w	o 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





This information was generated by the HP KEYMARK database on 17 Dec 2020			
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	
$COPTj = +2^{\circ}C$	6.03	4.47	
Cdh	0.98	0.99	
Pdh Tj = $+7$ °C	3.02 kW	3.02 kW	
$COPTj = +7^{\circ}C$	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	o w	o w	
РТО	o w	o w	
PSB	12 W	12 W	
	1		



PCK	o w	o 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 300-G BWC 301.C12 SC

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.31 kW	4.74 kW	
El input	1.11 kW	1.68 kW	
СОР	4.72	2.82	
Indoor water flow rate	0.92 m³/h	0.70 m³/h	

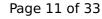
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Average Climate



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

EN 14825			
		Low temperature	Medium temperature
Pdesignh	12.00 kW		
η_{s}	205 %	151 %	
Prated	12.00 kW	12.00 kW	-
SCOP	5.32	3.97	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.07 kW	10.86 kW	
COP Tj = -7°C	4.26	3.05	
Cdh	0.99	0.99	
Pdh Tj = +2°C	6.75 kW	6.66 kW	
COP Tj = +2°C	5.28	3.91	
Cdh	0.99	0.99	
Pdh Tj = +7°C	4.56 kW	4.41 kW	
COP Tj = +7°C	6.03	4.57	
Cdh	0.98	0.98	





Pdh Tj = 12°C	2.46 kW	2.37 kW
COP Tj = 12°C	6.03	4.93
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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	o w	o w
РТО	o w	0 W
PSB	12 W	12 W
PCK	o 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)



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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	o w	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	o w	o 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		
$COP Tj = -7^{\circ}C$	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		
$COPTj = +7^{\circ}C$	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	o w	o w		
РТО	o w	o w		
PSB	12 W	12 W		
	1			



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PCK	o w	o 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		
СОР	4.72	2.82		
Indoor water flow rate	0.92 m³/h	0.70 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	41 dB(A)	41 dB(A)	

EN 14825				
		Low temperature	Medium temperature	
Pdesignh	12.00 kW			
η_{s}	205 %	151 %		
Prated	12.00 kW	12.00 kW		
SCOP	5.32	3.97		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	11.07 kW	10.86 kW		
COP Tj = -7°C	4.26	3.05		
Cdh	0.99	0.99		
Pdh Tj = +2°C	6.75 kW	6.66 kW		
COP Tj = +2°C	5.28	3.91		
Cdh	0.99	0.99		
Pdh Tj = +7°C	4.56 kW	4.41 kW		
COP Tj = +7°C	6.03	4.57		
Cdh	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
РТО	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)	

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





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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
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	o w	o w
PSB	12 W	12 W
PCK	0 W	o 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 %





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12.00 kW 5.48 -22 °C	12.00 kW 4.12
	4.12
-22 °C	
	-22 °C
-22 °C	-22 °C
7.70 kW	7.62 kW
5.18	3.71
0.99	0.99
4.56 kW	4.52 kW
6.03	4.47
0.98	0.99
3.02 kW	3.02 kW
6.17	4.90
0.97	0.98
2.43 kW	2.40 kW
5.78	5.16
0.95	0.97
11.45 kW	10.86 kW
4.09	2.92
11.45 kW	10.86 kW
4.09	2.92
0.99	0.99
	7.70 kW 5.18 0.99 4.56 kW 6.03 0.98 3.02 kW 6.17 0.97 2.43 kW 5.78 0.95 11.45 kW 4.09 11.45 kW





WTOL	65 °C	65 °C
Poff	0 W	0 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o 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

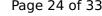


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	3.16	
Heating up time	1:17 h:min	
Standby power input	51.0 W	
Reference hot water temperature	54.9 °C	
Mixed water at 40°C	315	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	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	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	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	



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	
СОР	4.72	2.82	
Indoor water flow rate	0.92 m³/h	0.70 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	41 dB(A)	41 dB(A)

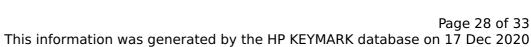
EN 14825			
		Low temperature	Medium temperature
Pdesignh	12.00 kW		
η_{s}	205 %	151 %	
Prated	12.00 kW	12.00 kW	-
SCOP	5.32	3.97	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.07 kW	10.86 kW	
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COP Tj = +2°C	5.28	3.91	
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Pdh Tj = +7°C	4.56 kW	4.41 kW	
COP Tj = +7°C	6.03	4.57	
Cdh	0.98	0.98	-





Pdh Tj = 12°C	2.46 kW	2.37 kW
COP Tj = 12°C	6.03	4.93
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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	o w	0 W
РТО	o 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)	

CEN heat pump KEYMARK

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
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	o w	o 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

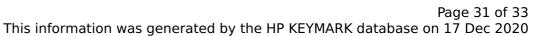
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	211 %	157 %





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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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$COP Tj = -7^{\circ}C$	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
РТО	0 W	o 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

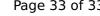


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	3.16	
Heating up time	1:17 h:min	
Standby power input	51.0 W	
Reference hot water temperature	54.9 °C	
Mixed water at 40°C	315 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	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	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	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	