

Summary of	Vitocal 2xx-G B10	Reg. No.	011-1W0287
Certificate Holder			
Name	Viessmann Wärmepump	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 2xx-G B10		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.4 kg		
Certification Date	11.07.2019		



Model: VITOCAL 200-G BWC 201.B10

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.36 kW	9.42 kW
El input	2.16 kW	3.32 kW
СОР	4.81	2.85
Indoor water flow rate	1.73 m³/h	1.02 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	46 dB(A)	46 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.72 kW		
η_{s}	204 %	150 %	
Prated	11.72 kW	10.81 kW	-
SCOP	5.32	3.97	-
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.31 kW	9.51 kW	
COP Tj = -7°C	4.99	3.23	
Cdh	0.99	0.99	
Pdh Tj = +2°C	10.40 kW	9.78 kW	
COP Tj = +2°C	5.33	3.84	
Cdh	0.99	0.99	
Pdh Tj = +7°C	10.48 kW	9.96 kW	
COP Tj = +7°C	5.67	4.31	
Cdh	0.99	0.99	





		a by the fit RETHAR
Pdh Tj = 12°C	10.58 kW	10.15 kW
COP Tj = 12°C	6.02	4.83
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.31 kW	9.51 kW
COP Tj = Tbiv	4.99	3.23
Pdh Tj = TOL	10.31 kW	9.42 kW
COP Tj = TOL	4.96	3.07
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	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.41 kW	1.39 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4554 kWh	5630 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)





EN 14825			
	Low temperature	Medium temperature	
η_{s}	208 %	145 %	
Prated	10.27 kW	9.39 kW	
SCOP	5.41	3.82	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	10.27 kW	9.39 kW	
COP Tj = +2°C	4.95	3.00	
Cdh	0.99	0.99	
Pdh Tj = +7°C	10.33 kW	9.66 kW	
COP Tj = +7°C	5.24	3.50	
Cdh	0.99	0.99	
Pdh Tj = 12°C	10.46 kW	10.02 kW	
COP Tj = 12°C	5.79	4.40	
Cdh	0.99	0.99	
Pdh Tj = Tbiv	10.27 kW	9.39 kW	
COP Tj = Tbiv	4.95	3.00	
Pdh Tj = TOL	10.27 kW	9.39 kW	
COP Tj = TOL	4.95	3.00	
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	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2536 kWh	3281 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	206 %	143 %
Prated	17.18 kW	15.83 kW
SCOP	5.36	3.78
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C





This information was generated by the HP KEYMARK database on 17 Dec 2020				
Pdh Tj = -7°C	10.44 kW	9.78 kW		
$COPTj = -7^{\circ}C$	5.76	3.84		
Cdh	0.99	0.99		
Pdh Tj = +2°C	10.48 kW	9.99 kW		
COP Tj = +2°C	6.47	4.37		
Cdh	0.99	0.99		
Pdh Tj = $+7^{\circ}$ C	10.55 kW	10.16 kW		
COP Tj = +7°C	6.78	4.84		
Cdh	0.99	0.99		
Pdh Tj = 12°C	10.55 kW	10.26 kW		
COP Tj = 12°C	6.85	5.25		
Cdh	0.99	0.99		
Pdh Tj = Tbiv	10.44 kW	9.78 kW		
COP Tj = Tbiv	5.76	3.84		
Pdh Tj = TOL	10.44 kW	9.47 kW		
COP Tj = TOL	6.12	3.15		
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		



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PCK	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	6.73 kW	6.35 kW
Annual energy consumption Qhe	7907 kWh	10312 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.47	9.65
COP Tj = -15°C (if TOL $<$ -20°C)	6.39	3.51
Cdh	0.99	0.99



Model: VITOCAL 200-G BWC 201.B10 SC

General Data	
Power supply	n/a

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.36 kW	9.42 kW	
El input	2.16 kW	3.32 kW	
СОР	4.81	2.85	
Indoor water flow rate	1.73 m³/h	1.02 m³/h	

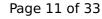
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.72 kW		
η_{s}	204 %	150 %	
Prated	11.72 kW	10.81 kW	-
SCOP	5.32	3.97	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.31 kW	9.51 kW	
COP Tj = -7°C	4.99	3.23	
Cdh	0.99	0.99	
Pdh Tj = +2°C	10.40 kW	9.78 kW	
COP Tj = +2°C	5.33	3.84	
Cdh	0.99	0.99	
Pdh Tj = +7°C	10.48 kW	9.96 kW	
COP Tj = +7°C	5.67	4.31	
Cdh	0.99	0.99	





Tills illiotitiation v	do generate	a by the fit RETHAR	t database on 17	٠,
Pdh Tj = 12°C	10.58 kW	10.15 kW		
COP Tj = 12°C	6.02	4.83		
Cdh	0.99	0.99		
Pdh Tj = Tbiv	10.31 kW	9.51 kW		
COP Tj = Tbiv	4.99	3.23		
Pdh Tj = TOL	10.31 kW	9.42 kW		
COP Tj = TOL	4.96	3.07		
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	1.41 kW	1.39 kW		
Backup Heater	0.00 kW			
Annual energy consumption Qhe	4554 kWh	5630 kWh		

Warmer Climate

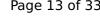
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	



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EN 14825

	Low temperature	Medium temperature
η_{s}	208 %	145 %
Prated	10.27 kW	9.39 kW
SCOP	5.41	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.27 kW	9.39 kW
COP Tj = +2°C	4.95	3.00
Cdh	0.99	0.99
Pdh Tj = +7°C	10.33 kW	9.66 kW
COP Tj = +7°C	5.24	3.50
Cdh	0.99	0.99
Pdh Tj = 12°C	10.46 kW	10.02 kW
COP Tj = 12°C	5.79	4.40
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.27 kW	9.39 kW
COP Tj = Tbiv	4.95	3.00
Pdh Tj = TOL	10.27 kW	9.39 kW
COP Tj = TOL	4.95	3.00
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2536 kWh	3281 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825			
	Low t	emperature	Medium temperature
η_{s}	206 %		143 %
Prated	17.18	kW	15.83 kW
SCOP	5.36		3.78
Tbiv	-7 °C		-7 °C
TOL	-22 °C		-22 °C





	,	ANN database on 17 Dec 202
Pdh Tj = -7°C	10.44 kW	9.78 kW
COP Tj = -7°C	5.76	3.84
Cdh	0.99	0.99
Pdh Tj = $+2$ °C	10.48 kW	9.99 kW
COP Tj = +2°C	6.47	4.37
Cdh	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.55 kW	10.16 kW
COP Tj = +7°C	6.78	4.84
Cdh	0.99	0.99
Pdh Tj = 12°C	10.55 kW	10.26 kW
COP Tj = 12°C	6.85	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.44 kW	9.78 kW
COP Tj = Tbiv	5.76	3.84
Pdh Tj = TOL	10.44 kW	9.47 kW
COP Tj = TOL	6.12	3.15
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



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PCK	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	6.73 kW	6.35 kW
Annual energy consumption Qhe	7907 kWh	10312 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.47	9.65
COP Tj = -15°C (if TOL $<$ -20°C)	6.39	3.51
Cdh	0.99	0.99



Model: VITOCAL 222-G BWT 221.B10

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

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.36 kW	9.42 kW	
El input	2.16 kW	3.32 kW	
СОР	4.81	2.85	
Indoor water flow rate	1.73 m³/h	1.02 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	46 dB(A)	46 dB(A)	

EN 14825				
		Low temperature	Medium temperature	
Pdesignh	11.72 kW			
η_{s}	204 %	150 %		
Prated	11.72 kW	10.81 kW		
SCOP	5.32	3.97		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	10.31 kW	9.51 kW		
COP Tj = -7°C	4.99	3.23		
Cdh	0.99	0.99		
Pdh Tj = +2°C	10.40 kW	9.78 kW		
COP Tj = +2°C	5.33	3.84		
Cdh	0.99	0.99		
Pdh Tj = +7°C	10.48 kW	9.96 kW		
COP Tj = +7°C	5.67	4.31		
Cdh	0.99	0.99		





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Pdh Tj = 12°C	10.58 kW	10.15 kW
COP Tj = 12°C	6.02	4.83
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.31 kW	9.51 kW
COP Tj = Tbiv	4.99	3.23
Pdh Tj = TOL	10.31 kW	9.42 kW
COP Tj = TOL	4.96	3.07
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o 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	1.41 kW	1.39 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4554 kWh	5630 kWh

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	208 %	145 %	
Prated	10.27 kW	9.39 kW	
SCOP	5.41	3.82	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	10.27 kW	9.39 kW	
COP Tj = +2°C	4.95	3.00	
Cdh	0.99	0.99	
Pdh Tj = +7°C	10.33 kW	9.66 kW	
COP Tj = +7°C	5.24	3.50	
Cdh	0.99	0.99	
Pdh Tj = 12°C	10.46 kW	10.02 kW	
COP Tj = 12°C	5.79	4.40	
Cdh	0.99	0.99	
Pdh Tj = Tbiv	10.27 kW	9.39 kW	





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COP Tj = Tbiv	4.95	3.00
Pdh Tj = TOL	10.27 kW	9.39 kW
COP Tj = TOL	4.95	3.00
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	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2536 kWh	3281 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	206 %	143 %





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		KEYMARK database on 17 Dec 202
Prated	17.18 kW	15.83 kW
SCOP	5.36	3.78
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.44 kW	9.78 kW
COP Tj = -7°C	5.76	3.84
Cdh	0.99	0.99
Pdh Tj = +2°C	10.48 kW	9.99 kW
COP Tj = +2°C	6.47	4.37
Cdh	0.99	0.99
Pdh Tj = +7°C	10.55 kW	10.16 kW
$COP Tj = +7^{\circ}C$	6.78	4.84
Cdh	0.99	0.99
Pdh Tj = 12°C	10.55 kW	10.26 kW
COP Tj = 12°C	6.85	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.44 kW	9.78 kW
COP Tj = Tbiv	5.76	3.84
Pdh Tj = TOL	10.44 kW	9.47 kW
COP Tj = TOL	6.12	3.15
Cdh	0.99	0.99





This information was generated by the Fit RETPERMIX database on 17 Dec 25.				
WTOL	65 °C	65 °C		
Poff	o w	0 W		
РТО	o w	0 W		
PSB	12 W	12 W		
PCK	o w	o w		
Supplementary Heater: Type of energy input	electric	electric		
Supplementary Heater: PSUP	6.73 kW	6.35 kW		
Annual energy consumption Qhe	7907 kWh	10312 kWh		
Pdh Tj = -15°C (if TOL<-20°C)	10.47	9.65		
COP Tj = -15°C (if TOL<-20°C)	6.39	3.51		
Cdh	0.99	0.99		

Domestic Hot Water (DHW)

Average Climate

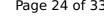


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	



Model: VITOCAL 222-G BWT 221.B10 SC

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

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.36 kW	9.42 kW
El input	2.16 kW	3.32 kW
СОР	4.81	2.85
Indoor water flow rate	1.73 m³/h	1.02 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	46 dB(A)	46 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.72 kW		
η_{s}	204 %	150 %	
Prated	11.72 kW	10.81 kW	
SCOP	5.32	3.97	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.31 kW	9.51 kW	
COP Tj = -7°C	4.99	3.23	
Cdh	0.99	0.99	
Pdh Tj = +2°C	10.40 kW	9.78 kW	
COP Tj = +2°C	5.33	3.84	
Cdh	0.99	0.99	
Pdh Tj = +7°C	10.48 kW	9.96 kW	
COP Tj = +7°C	5.67	4.31	
Cdh	0.99	0.99	





	-	-
Pdh Tj = 12°C	10.58 kW	10.15 kW
COP Tj = 12°C	6.02	4.83
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.31 kW	9.51 kW
COP Tj = Tbiv	4.99	3.23
Pdh Tj = TOL	10.31 kW	9.42 kW
COP Tj = TOL	4.96	3.07
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o 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	1.41 kW	1.39 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4554 kWh	5630 kWh

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	208 %	145 %
Prated	10.27 kW	9.39 kW
SCOP	5.41	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.27 kW	9.39 kW
COP Tj = +2°C	4.95	3.00
Cdh	0.99	0.99
Pdh Tj = +7°C	10.33 kW	9.66 kW
COP Tj = +7°C	5.24	3.50
Cdh	0.99	0.99
Pdh Tj = 12°C	10.46 kW	10.02 kW
COP Tj = 12°C	5.79	4.40
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.27 kW	9.39 kW





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COP Tj = Tbiv	4.95	3.00
Pdh Tj = TOL	10.27 kW	9.39 kW
COP Tj = TOL	4.95	3.00
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	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2536 kWh	3281 kWh

Colder Climate

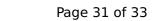
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	206 %	143 %





Prated	17.18 kW	15.83 kW
SCOP	5.36	3.78
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.44 kW	9.78 kW
COP Tj = -7°C	5.76	3.84
Cdh	0.99	0.99
Pdh Tj = +2°C	10.48 kW	9.99 kW
COP Tj = +2°C	6.47	4.37
Cdh	0.99	0.99
Pdh Tj = +7°C	10.55 kW	10.16 kW
COP Tj = +7°C	6.78	4.84
Cdh	0.99	0.99
Pdh Tj = 12°C	10.55 kW	10.26 kW
COP Tj = 12°C	6.85	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	10.44 kW	9.78 kW
COP Tj = Tbiv	5.76	3.84
Pdh Tj = TOL	10.44 kW	9.47 kW
COP Tj = TOL	6.12	3.15
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	6.73 kW	6.35 kW
Annual energy consumption Qhe	7907 kWh	10312 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.47	9.65
COP Tj = -15°C (if TOL $<$ -20°C)	6.39	3.51
Cdh	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

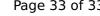


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.11	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	