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#### This information was generated by the HP KEYMARK database on 22 Jun 2022

#### Login

Summary of	Vitocal 3xx-G C06	Reg. No.	011-1W0291	
Certificate Holder				
Name	Viessmann Wärmepumpe	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 3xx-G C06	Vitocal 3xx-G C06		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	2 kg	2 kg		
Certification Date	11.07.2019	11.07.2019		



# Model: VITOCAL 300-G BWC 301.C06

Configure model		
Model name	VITOCAL 300-G BWC 301.C06	
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	4.28 kW	3.85 kW	
El input	0.92 kW	1.41 kW	
СОР	4.65	2.73	

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
$\eta_{s}$	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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.99 kW	3.86 kW
$COP Tj = +7^{\circ}C$	5.16	3.43
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.77 kW	1.78 kW
COP Tj = 12°C	5.32	4.10
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.67 kW	6.22 kW

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COP Tj = Tbiv	4.51	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.67 kW	6.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.51	2.87
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	0 W	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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
$\eta_{S}$	205 %	148 %





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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
$COPTj = -7^{\circ}C$	5.42	3.62
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	3.10 kW	2.24 kW
$COPTj = +2^{\circ}C$	5.33	4.01
Cdh Tj = +2 °C	0.96	0.99
Pdh Tj = $+7^{\circ}$ C	2.21 kW	1.70 kW
$COPTj = +7^{\circ}C$	5.93	4.94
Cdh Tj = +7 °C	0.95	0.99
Pdh Tj = 12°C	1.76 kW	1.72 kW
COP Tj = 12°C	5.95	5.20
Cdh Tj = +12 °C	0.95	0.99
Pdh Tj = Tbiv	6.08 kW	5.99 kW
COP Tj = Tbiv	4.46	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.08 kW	5.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.46	2.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
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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	Electricity	Electricity
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 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	6.00 kW		'
$\eta_s$	204 %	141 %	





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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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.27 kW	3.24 kW
COP Tj = +2°C	5.33	3.77
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	2.17 kW	2.17 kW
COP Tj = +7°C	5.59	4.06
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	1.77 kW	1.73 kW
COP Tj = 12°C	5.96	4.12
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.90 kW	6.25 kW
COP Tj = Tbiv	4.48	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.87





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	o w	o w
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331 kWh	3329 kWh



# Model: VITOCAL 300-G BWC 301.C06 SC

Configure model		
Model name	VITOCAL 300-G BWC 301.C06 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	4.28 kW	3.85 kW	
El input	0.92 kW	1.41 kW	
СОР	4.65	2.73	

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

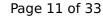




EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.99 kW	3.86 kW
COP Tj = +7°C	5.16	3.43
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.77 kW	1.78 kW
COP Tj = 12°C	5.32	4.10
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.67 kW	6.22 kW

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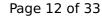


4.51	2.87
5.67 kW	6.22 kW
4.51	2.87
0.99	0.99
65 °C	65 °C
0 W	0 W
o w	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
0.33 kW	0.00 kW
1544 kWh	2163 kWh
	5.67 kW  4.51  0.99  65 °C  0 W  0 W  12 W  0 W  Electricity  0.33 kW

### Colder Climate

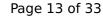
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	205 %	148 %





This information was gener	aced by the fit RETHIA	TRE database on 22 jun 2022
Prated	6.00 kW	6.00 kW
SCOP	5.32	3.89
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	3.66 kW	3.71 kW
$COP Tj = -7^{\circ}C$	5.42	3.62
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	3.10 kW	2.24 kW
COP Tj = +2°C	5.33	4.01
Cdh Tj = +2 °C	0.96	0.99
Pdh Tj = $+7^{\circ}$ C	2.21 kW	1.70 kW
$COP Tj = +7^{\circ}C$	5.93	4.94
Cdh Tj = +7 °C	0.95	0.99
Pdh Tj = 12°C	1.76 kW	1.72 kW
COP Tj = 12°C	5.95	5.20
Cdh Tj = +12 °C	0.95	0.99
Pdh Tj = Tbiv	6.08 kW	5.99 kW
COP Tj = Tbiv	4.46	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.08 kW	5.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.46	2.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
	+	



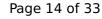


WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.92	4.92
COP Tj = -15°C (if TOL $<$ -20°C)	4.91	3.22
Cdh Tj = -15 °C	0.99	0.99

## Average Climate

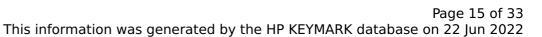
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	6.00 kW		
$\eta_s$	204 %	141 %	





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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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.27 kW	3.24 kW
COP Tj = +2°C	5.33	3.77
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.17 kW	2.17 kW
$COP Tj = +7^{\circ}C$	5.59	4.06
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	1.77 kW	1.73 kW
COP Tj = 12°C	5.96	4.12
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.90 kW	6.25 kW
COP Tj = Tbiv	4.48	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.87





		.,
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
	2331 kWh	3329 kWh



# Model: VITOCAL 333-G BWT 331.C06

Configure model		
Model name	VITOCAL 333-G BWT 331.C06	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

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
СОР	4.65	2.73

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
$\eta_{s}$	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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.99 kW	3.86 kW
COP Tj = +7°C	5.16	3.43
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.77 kW	1.78 kW
COP Tj = 12°C	5.32	4.10
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.67 kW	6.22 kW

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COP Tj = Tbiv  4.51  2.87  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.67 kW  6.22 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 4.51  2.87  Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.99  WTOL  65 °C  65 °C  Poff  0 W  0 W  PTO  0 W  12 W  PCK  O W  Supplementary Heater: Type of energy input  Electricity  Electricity			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	4.51	2.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.67 kW	6.22 kW
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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.51	2.87
Poff       0 W       0 W         PTO       0 W       0 W         PSB       12 W       12 W         PCK       0 W       0 W	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
PTO 0 W 0 W  PSB 12 W 12 W  PCK 0 W	WTOL	65 °C	65 °C
PSB 12 W 12 W  PCK 0 W	Poff	o w	0 W
PCK 0 W 0 W	РТО	o w	0 W
	PSB	12 W	12 W
Supplementary Heater: Type of energy input Electricity Electricity	PCK	0 W	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP 0.33 kW 0.00 kW	Supplementary Heater: PSUP	0.33 kW	0.00 kW
Annual energy consumption Qhe 1544 kWh 2163 kWh	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
$\eta_{s}$	205 %	148 %





<u> </u>	<u>,                                      </u>	NK database on 22 Juli 202.
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
$COPTj = -7^{\circ}C$	5.42	3.62
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	3.10 kW	2.24 kW
COP Tj = +2°C	5.33	4.01
Cdh Tj = +2 °C	0.96	0.99
Pdh Tj = $+7^{\circ}$ C	2.21 kW	1.70 kW
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Cdh Tj = +12 °C	0.95	0.99
Pdh Tj = Tbiv	6.08 kW	5.99 kW
COP Tj = Tbiv	4.46	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.08 kW	5.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.46	2.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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 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	6.00 kW		
$\eta_s$	204 %	141 %	





This information was g	,	,
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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.27 kW	3.24 kW
COP Tj = +2°C	5.33	3.77
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.17 kW	2.17 kW
COP Tj = +7°C	5.59	4.06
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	1.77 kW	1.73 kW
COP Tj = 12°C	5.96	4.12
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.90 kW	6.25 kW
COP Tj = Tbiv	4.48	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.87





	:	•
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2331	3329 kWh

kWh

Domestic Hot Water (DHW)

Warmer Climate

Declared load profile	XL
Efficiency ηDHW	127 %
СОР	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

### Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	

## Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	

# Model: VITOCAL 333-G BWT 331.C06 SC

Configure model		
Model name	VITOCAL 333-G BWT 331.C06 SC	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

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
СОР	4.65	2.73

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

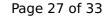




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.99 kW	3.86 kW
COP Tj = +7°C	5.16	3.43
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.77 kW	1.78 kW
COP Tj = 12°C	5.32	4.10
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.67 kW	6.22 kW

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COP Tj = Tbiv	4.51	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.67 kW	6.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.51	2.87
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	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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
$\eta_{S}$	205 %	148 %





<u> </u>	<u>,                                      </u>	NK database on 22 Juli 202.
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 Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	3.10 kW	2.24 kW
COP Tj = +2°C	5.33	4.01
Cdh Tj = +2 °C	0.96	0.99
Pdh Tj = $+7^{\circ}$ C	2.21 kW	1.70 kW
$COPTj = +7^{\circ}C$	5.93	4.94
Cdh Tj = +7 °C	0.95	0.99
Pdh Tj = 12°C	1.76 kW	1.72 kW
COP Tj = 12°C	5.95	5.20
Cdh Tj = +12 °C	0.95	0.99
Pdh Tj = Tbiv	6.08 kW	5.99 kW
COP Tj = Tbiv	4.46	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.08 kW	5.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.46	2.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99



WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
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 Tj = -15 °C	0.99	0.99

## Average Climate

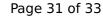
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	6.00 kW		-
$\eta_{s}$	204 %	141 %	





	generated i	by the fir Kerman
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 Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.27 kW	3.24 kW
COP Tj = +2°C	5.33	3.77
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.17 kW	2.17 kW
COP Tj = +7°C	5.59	4.06
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	1.77 kW	1.73 kW
COP Tj = 12°C	5.96	4.12
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.90 kW	6.25 kW
COP Tj = Tbiv	4.48	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48	2.87
		1





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99	
WTOL	65 °C	65 °C	
Poff	o w	o w	
PTO	o w	0 W	
PSB	12 W	12 W	
PCK	o w	o w	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	0.10 kW	0.00 kW	
Backup Heater	0.00 kW		
Annual energy consumption Qhe	2331 kWh	3329 kWh	

Domestic Hot Water (DHW)

Warmer Climate

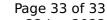


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	3.05	
Heating up time	1:33 h:min	
Standby power input	51.0 W	
Reference hot water temperature	54.9 °C	
Mixed water at 40°C	315	

### Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	

## Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	127 %	
СОР	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	