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#### **Login**

Summary of	Vitocal 2xx-G B06	Reg. No.	011-1W0285	
Certificate Holder				
Name	Viessmann Wärmepumpen G	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 2xx-G B06	Vitocal 2xx-G B06		
Heat Pump Type	Brine/Water			
Refrigerant	R410A	R410A		
Mass of Refrigerant	1.4 kg	1.4 kg		
Certification Date	11.07.2019			



# Model: VITOCAL 200-G BWC 201.B06

Configure model		
Model name	VITOCAL 200-G BWC 201.B06	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional) n/a		

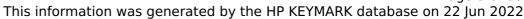
General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.73 kW	5.11 kW
El input	1.25 kW	1.94 kW
СОР	4.60	1.63

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
$\eta_{s}$	189 %	141 %
Prated	5.70 kW	5.19 kW
SCOP	4.92	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.70 kW	5.20 kW
COP Tj = +2°C	5.18	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.84 kW	5.29 kW
COP Tj = +7°C	4.75	3.20
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.94 kW	5.61 kW
COP Tj = 12°C	5.18	4.06
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.70 kW	5.19 kW

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COP Tj = Tbiv	5.18	2.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.70 kW	5.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	2.83
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	1574 kWh	1857 kWh

### Colder Climate

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

EN 14825		
rature Medium temperature		
133 %		
133		





Prated	9.63 kW	8.97 kW
riateu	9.03 KW	0.97 KW
SCOP	4.80	3.52
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	5.88 kW	5.38 kW
$COPTj = -7^{\circ}C$	5.24	3.52
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.97 kW	5.60 kW
COP Tj = +2°C	5.53	4.04
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.99 kW	5.71 kW
$COP Tj = +7^{\circ}C$	5.73	4.48
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.98 kW	5.78 kW
COP Tj = 12°C	5.76	4.82
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.88 kW	5.38 kW
COP Tj = Tbiv	5.24	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.81 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	2.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
	+	<del>'</del>

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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	Electricity	Electricity
Supplementary Heater: PSUP	3.82 kW	3.47 kW
Annual energy consumption Qhe	4939 kWh	6069 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.88	5.29
COP Tj = -15°C (if TOL $<$ -20°C)	5.11	2.92
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	6.59 kW		
$\eta_{s}$	186 %	134 %	





This information was generated by the HE KETMARK C			
Prated	6.59 kW	5.94 kW	
SCOP	4.86	3.56	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.80 kW	5.23 kW	
COP Tj = -7°C	4.61	3.01	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.84 kW	5.43 kW	
$COP Tj = +2^{\circ}C$	4.85	3.54	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.93 kW	5.59 kW	
$COP Tj = +7^{\circ}C$	5.18	3.96	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	5.98 kW	5.70 kW	
COP Tj = 12°C	5.45	4.41	
Cdh Tj = +12 °C	0.99	0.99	
Pdh Tj = Tbiv	5.80 kW	5.23 kW	
COP Tj = Tbiv	4.61	3.01	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.21 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	2.85	





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	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	0.73 kW
Backup Heater	0 kW	
Annual energy consumption Qhe	2802 kWh	3452 kWh



# Model: VITOCAL 200-G BWC 201.B06 SC

Configure model		
Model name	VITOCAL 200-G BWC 201.B06 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	5.73 kW	5.11 kW		
El input	1.25 kW	1.94 kW		
СОР	4.60	1.63		

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

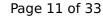




EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	189 %	141 %
Prated	5.70 kW	5.19 kW
SCOP	4.92	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.70 kW	5.20 kW
COP Tj = +2°C	5.18	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.84 kW	5.29 kW
COP Tj = +7°C	4.75	3.20
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.94 kW	5.61 kW
COP Tj = 12°C	5.18	4.06
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.70 kW	5.19 kW

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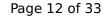


COP Tj = Tbiv 5.18 2.83  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.70 kW 5.19 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 5.20 2.83  Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.99 0.99  WTOL 65 °C 65 °C  Poff 0 W 0 W  PTO 0 W 0 W  PSB 12 W 12 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW  Annual energy consumption Ohe 1574 kWh 1857 kWh			
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  0 W  PTO  0 W  12 W  PCK  D W  Supplementary Heater: Type of energy input  Electricity  Electricity  Supplementary Heater: PSUP  0.00 kW  0.099  0.099  0.099  0.099  0.099  0.09  0 W  0 W  0 W  0 W  0 W  0 W  0 W  0	COP Tj = Tbiv	5.18	2.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh WTOL 65 °C 65 °C  Poff 0 W 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 0.00 kW 0.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.70 kW	5.19 kW
WTOL 65 °C 65 °C  Poff 0 W 0 W  PTO 0 W 0 W  PSB 12 W 12 W  PCK 0 W  Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	2.83
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 0.00 kW 0.00 kW	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 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	WTOL	65 °C	65 °C
PSB 12 W 12 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	Poff	o w	o w
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PTO	0 W	0 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	12 W	12 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 1574 kWh 1857 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	1574 kWh	1857 kWh

### Colder Climate

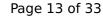
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	184 %	133 %





This information was genera		Turk database on 22 jan 202
Prated	9.63 kW	8.97 kW
SCOP	4.80	3.52
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	5.88 kW	5.38 kW
$COPTj = -7^{\circ}C$	5.24	3.52
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	5.97 kW	5.60 kW
$COPTj = +2^{\circ}C$	5.53	4.04
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.99 kW	5.71 kW
$COP Tj = +7^{\circ}C$	5.73	4.48
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.98 kW	5.78 kW
COP Tj = 12°C	5.76	4.82
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.88 kW	5.38 kW
COP Tj = Tbiv	5.24	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.81 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	2.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99





WTOL	65 °C	65 °C
Poff	o w	0 W
PTO	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	3.82 kW	3.47 kW
Annual energy consumption Qhe	4939 kWh	6069 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.88	5.29
COP Tj = -15°C (if TOL $<$ -20°C)	5.11	2.92
Cdh Tj = -15 °C	0.99	0.99

# **Average Climate**

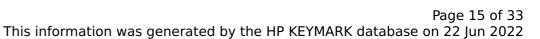
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	6.59 kW		'
ης	186 %	134 %	





This information was generated by the HP KEYMARK (			
Prated	6.59 kW	5.94 kW	
SCOP	4.86	3.56	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.80 kW	5.23 kW	
COP Tj = -7°C	4.61	3.01	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.84 kW	5.43 kW	
COP Tj = +2°C	4.85	3.54	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.93 kW	5.59 kW	
COP Tj = +7°C	5.18	3.96	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	5.98 kW	5.70 kW	
COP Tj = 12°C	5.45	4.41	
Cdh Tj = +12 °C	0.99	0.99	
Pdh Tj = Tbiv	5.80 kW	5.23 kW	
COP Tj = Tbiv	4.61	3.01	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.21 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	2.85	





		·
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
РСК	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	0.73 kW
Backup Heater	0 kW	
Annual energy consumption Qhe	2802 kWh	3452 kWh



# Model: VITOCAL 222-G BWT 221.B06

Configure model		
Model name	VITOCAL 222-G BWT 221.B06	
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	5.73 kW	5.11 kW	
El input	1.25 kW	1.94 kW	
СОР	4.60	1.63	

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

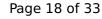
### Warmer Climate



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	189 %	141 %
Prated	5.70 kW	5.19 kW
SCOP	4.92	3.73
Tbiv	2 °C	2 °C
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Pdh Tj = +2°C	5.70 kW	5.20 kW
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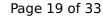


5.18	2.83
5.70 kW	5.19 kW
5.20	2.83
0.99	0.99
65 °C	65 °C
0 W	0 W
o w	0 W
12 W	12 W
o w	0 W
Electricity	Electricity
0.00 kW	0.00 kW
1574 kWh	1857 kWh
	5.70 kW  5.20  0.99  65 °C  0 W  0 W  12 W  0 W  Electricity  0.00 kW

### 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
$\eta_{s}$	184 %	133 %
	-	





This information was generated by the HF KLTMAKK database on 22 jun 2022				
Prated	9.63 kW	8.97 kW		
SCOP	4.80	3.52		
Tbiv	-7 °C	-7 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = $-7^{\circ}$ C	5.88 kW	5.38 kW		
COP Tj = -7°C	5.24	3.52		
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.81 kW	5.20 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	2.92		
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	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	3.82 kW	3.47 kW
Annual energy consumption Qhe	4939 kWh	6069 kWh
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Cdh Tj = -15 °C	0.99	0.99

## Average Climate

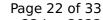
EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	40 dB(A)	40 dB(A)		

EN 14825			
		Low temperature	Medium temperature
Pdesignh	6.59 kW		'
ης	186 %	134 %	





6.59 kW	5.94 kW
	J.34 NVV
4.86	3.56
-7 °C	-7 °C
-10 °C	-10 °C
5.80 kW	5.23 kW
4.61	3.01
0.99	0.99
5.84 kW	5.43 kW
4.85	3.54
0.99	0.99
5.93 kW	5.59 kW
5.18	3.96
0.99	0.99
5.98 kW	5.70 kW
5.45	4.41
0.99	0.99
5.80 kW	5.23 kW
4.61	3.01
5.80 kW	5.21 kW
4.55	2.85
	-7 °C  -10 °C  5.80 kW  4.61  0.99  5.84 kW  4.85  0.99  5.93 kW  5.18  0.99  5.98 kW  5.45  0.99  5.80 kW  4.61  5.80 kW





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	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	0.73 kW
Backup Heater	0 kW	
Annual energy consumption Qhe	2802 kWh	3452 kWh

Domestic Hot Water (DHW)

Warmer Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.14	
Heating up time	2.10 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	

## Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.14	
Heating up time	2.10 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	

## Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.14	
Heating up time	2.10 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	



# Model: VITOCAL 222-G BWT 221.B06 SC

Configure model		
Model name	VITOCAL 222-G BWT 221.B06 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	5.73 kW	5.11 kW	
El input	1.25 kW	1.94 kW	
СОР	4.60	1.63	

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
$\eta_{s}$	189 %	141 %
Prated	5.70 kW	5.19 kW
SCOP	4.92	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.70 kW	5.20 kW
COP Tj = +2°C	5.18	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.84 kW	5.29 kW
COP Tj = +7°C	4.75	3.20
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.94 kW	5.61 kW
COP Tj = 12°C	5.18	4.06
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.70 kW	5.19 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



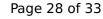


COP Tj = Tbiv       5.18       2.83         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       5.70 kW       5.19 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       5.20       2.83         Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       0.99       0.99         WTOL       65 °C       65 °C         Poff       0 W       0 W         PTO       0 W       12 W         PCK       0 W       0 W         Supplementary Heater: Type of energy input       Electricity       Electricity         Supplementary Heater: PSUP       0.00 kW       0.00 kW         Annual energy consumption Qhe       1574 kWh       1857 kWh			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	5.18	2.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.70 kW	5.19 kW
WTOL  65 °C  65 °C  0 W  0 W  PTO  0 W  0 W  PSB  12 W  12 W  PCK  0 W  0 W  Electricity  Electricity  Supplementary Heater: Type of energy input  Electricity  0.00 kW  0.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	2.83
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 0.00 kW 0.00 kW	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 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	WTOL	65 °C	65 °C
PSB 12 W 12 W  PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	Poff	0 W	0 W
PCK 0 W 0 W  Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	РТО	0 W	0 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	12 W	12 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	PCK	0 W	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 1574 kWh 1857 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	1574 kWh	1857 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
$\eta_{s}$	184 %	133 %





	<b>,</b> -	The database on 22 juli 202.
Prated	9.63 kW	8.97 kW
SCOP	4.80	3.52
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	5.88 kW	5.38 kW
COP Tj = -7°C	5.24	3.52
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	5.97 kW	5.60 kW
COP Tj = +2°C	5.53	4.04
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	5.99 kW	5.71 kW
$COP Tj = +7^{\circ}C$	5.73	4.48
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.98 kW	5.78 kW
COP Tj = 12°C	5.76	4.82
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.88 kW	5.38 kW
COP Tj = Tbiv	5.24	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.81 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	2.92
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	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	3.82 kW	3.47 kW
Annual energy consumption Qhe	4939 kWh	6069 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.88	5.29
COP Tj = -15°C (if TOL $<$ -20°C)	5.11	2.92
Cdh Tj = -15 °C	0.99	0.99

## Average Climate

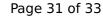
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	6.59 kW		
$\eta_s$	186 %	134 %	





This information was generated by the HERLIMARK			
Prated	6.59 kW	5.94 kW	
SCOP	4.86	3.56	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.80 kW	5.23 kW	
COP Tj = -7°C	4.61	3.01	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.84 kW	5.43 kW	
$COP Tj = +2^{\circ}C$	4.85	3.54	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.93 kW	5.59 kW	
$COP Tj = +7^{\circ}C$	5.18	3.96	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	5.98 kW	5.70 kW	
COP Tj = 12°C	5.45	4.41	
Cdh Tj = +12 °C	0.99	0.99	
Pdh Tj = Tbiv	5.80 kW	5.23 kW	
COP Tj = Tbiv	4.61	3.01	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.21 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	2.85	





	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	Electricity	Electricity	
Supplementary Heater: PSUP	0.80 kW	0.73 kW	
Backup Heater	0 kW		
Annual energy consumption Qhe	2802 kWh	3452 kWh	

Domestic Hot Water (DHW)

Warmer Climate

293 I



EN 16147

Declared load profile XL

Efficiency ηDHW 130 %

COP 3.14

Heating up time 2.10 h:min

Standby power input 63.0 W

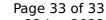
Reference hot water temperature 54.1 °C

### Colder Climate

Mixed water at 40°C

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.14	
Heating up time	2.10 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	

## **Average Climate**





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.14	
Heating up time	2.10 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	