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Summary of	Vitocal 2xx-G B08	Reg. No.	011-1W0286
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 2xx-G B08		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.95 kg		
Certification Date	11.07.2019		

Model: VITOCAL 200-G BWC 201.B08

Configure model	
Model name	VITOCAL 200-G BWC 201.B08
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	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
COP	4.64	2.74

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	43 dB(A)	43 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	7.57 kW		
η_s	201 %	143 %	
P _{rated}	8.60 kW	7.95 kW	
SCOP	5.23	3.79	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	7.57 kW	6.99 kW	
COP T _j = -7°C	4.93	3.16	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	7.63 kW	7.19 kW	
COP T _j = +2°C	5.23	3.77	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	7.69 kW	7.31 kW	
COP T _j = +7°C	5.56	4.23	
C _{dh} T _j = +7 °C	0.99	0.99	

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Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = Tbiv	4.85	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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 Qhe	1897 kWh	2449 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	195 %	142 %

This information was generated by the HP KEYMARK database on 18 Mar 2022

Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.11	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	4.93 kW	4.67 kW
Annual energy consumption Qhe	6143 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL<-20°C)	5.11	3.46
Cdh Tj = -15 °C	0.99	0.99

Model: VITOCAL 200-G BWC 201.B08 SC

Configure model	
Model name	VITOCAL 200-G BWC 201.B08 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	n/a

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
COP	4.64	2.74

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	43 dB(A)	43 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	7.57 kW		
η_s	201 %	143 %	
P _{rated}	8.60 kW	7.95 kW	
SCOP	5.23	3.79	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	7.57 kW	6.99 kW	
COP T _j = -7°C	4.93	3.16	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	7.63 kW	7.19 kW	
COP T _j = +2°C	5.23	3.77	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	7.69 kW	7.31 kW	
COP T _j = +7°C	5.56	4.23	
C _{dh} T _j = +7 °C	0.99	0.99	

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Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP $T_j = T_{biv}$	4.85	2.99
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.55 kW	6.92 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.85	2.99
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.99	1.00
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 Q_{he}	1897 kWh	2449 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	195 %	142 %

This information was generated by the HP KEYMARK database on 18 Mar 2022

Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.11	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	4.93 kW	4.67 kW
Annual energy consumption Qhe	6095 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL<-20°C)	5.11	3.46
Cdh Tj = -15 °C	0.99	0.99

Model: VITOCAL 222-G BWT 221.B08

Configure model	
Model name	VITOCAL 222-G BWT 221.B08
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	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
COP	4.64	2.74

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	43 dB(A)	43 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	7.57 kW		
η_s	201 %	143 %	
P _{rated}	8.60 kW	7.95 kW	
SCOP	5.23	3.79	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	7.57 kW	6.99 kW	
COP T _j = -7°C	4.93	3.16	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	7.63 kW	7.19 kW	
COP T _j = +2°C	5.23	3.77	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	7.69 kW	7.31 kW	
COP T _j = +7°C	5.56	4.23	
C _{dh} T _j = +7 °C	0.99	0.99	

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP $T_j = T_{biv}$	4.85	2.99
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.55 kW	6.92 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.85	2.99
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.99	1.00
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 Q_{he}	1897 kWh	2449 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	195 %	142 %

This information was generated by the HP KEYMARK database on 18 Mar 2022

Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.11	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	4.93 kW	4.67 kW
Annual energy consumption Qhe	6095 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL<-20°C)	5.11	3.46
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Colder Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Model: VITOCAL 222-G BWT 221.B08 SC

Configure model

Model name	VITOCAL 222-G BWT 221.B08 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	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
COP	4.64	2.74

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	43 dB(A)	43 dB(A)

EN 14825

		Low temperature	Medium temperature
P _{designh}	7.57 kW		
η_s	201 %	143 %	
P _{rated}	8.60 kW	7.95 kW	
SCOP	5.23	3.79	
T _{biv}	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
P _{dh} T _j = -7°C	7.57 kW	6.99 kW	
COP T _j = -7°C	4.93	3.16	
C _{dh} T _j = -7 °C	0.99	0.99	
P _{dh} T _j = +2°C	7.63 kW	7.19 kW	
COP T _j = +2°C	5.23	3.77	
C _{dh} T _j = +2 °C	0.99	0.99	
P _{dh} T _j = +7°C	7.69 kW	7.31 kW	
COP T _j = +7°C	5.56	4.23	
C _{dh} T _j = +7 °C	0.99	0.99	

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = Tbiv	4.85	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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 Qhe	1897 kWh	2449 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	195 %	142 %

This information was generated by the HP KEYMARK database on 18 Mar 2022

Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.11	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	4.93 kW	4.67 kW
Annual energy consumption Qhe	6095 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL<-20°C)	5.11	3.46
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l