

Subtype Vitocal 3xx-G C06

Certificate Holder	Viessmann Climate Solutions SE
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Vitocal 3xx-G C06
Registration number	011-1W0291
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2 kg
Certification Date	11.07.2019

Model VITOCAL 300-G BWC 301.C06

Model name	VITOCAL 300-G BWC 301.C06
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	141 %
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	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	0.10 kW	0.00 kW
Annual energy consumption Qhe	2331 kWh	3329 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	205 %	148 %
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°C	2.21 kW	1.70 kW
COP Tj = +7°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	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	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL	4.92	4.92
COP Tj = -15°C (if TOL	4.91	3.22
Cdh Tj = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_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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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

Model VITOCAL 300-G BWC 301.C06 SC

Model name	VITOCAL 300-G BWC 301.C06 SC
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	141 %
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	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	0.10 kW	0.00 kW
Annual energy consumption Qhe	2331 kWh	3329 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	205 %	148 %
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°C	2.21 kW	1.70 kW
COP Tj = +7°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	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	2779 kWh	3801 kWh
Pdh Tj = -15°C (if TOL	4.92	4.92
COP Tj = -15°C (if TOL	4.91	3.22
Cdh Tj = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	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
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

Model VITOCAL 333-G BWT 331.C06

Model name	VITOCAL 333-G BWT 331.C06
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Brine+Water
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	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 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	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 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	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 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.28 kW	3.85 kW
El input	0.92 kW	1.41 kW
COP	4.65	2.73

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	141 %
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	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	0.10 kW	0.00 kW
Annual energy consumption Q _{he}	2331 kWh	3329 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	205 %	148 %
Prated	6.00 kW	6.00 kW
SCOP	5.32	3.89
T _{biv}	-22 °C	-22 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	3.66 kW	3.71 kW
COP T _j = -7°C	5.42	3.62
C _{dh} T _j = -7 °C	0.98	0.99
P _{dh} T _j = +2°C	3.10 kW	2.24 kW
COP T _j = +2°C	5.33	4.01
C _{dh} T _j = +2 °C	0.96	0.99
P _{dh} T _j = +7°C	2.21 kW	1.70 kW
COP T _j = +7°C	5.93	4.94
C _{dh} T _j = +7 °C	0.95	0.99
P _{dh} T _j = 12°C	1.76 kW	1.72 kW
COP T _j = 12°C	5.95	5.20
C _{dh} T _j = +12 °C	0.95	0.99
P _{dh} T _j = T _{biv}	6.08 kW	5.99 kW
COP T _j = T _{biv}	4.46	2.87
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	6.08 kW	5.99 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.46	2.87
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.99	0.99
WTOL	65 °C	65 °C
P _{off}	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}	2779 kWh	3801 kWh
P _{dh} T _j = -15°C (if TOL	4.92	4.92
COP T _j = -15°C (if TOL	4.91	3.22

Cdh Tj = -15 °C	0.99	0.99
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EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_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
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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

Model VITOCAL 333-G BWT 331.C06 SC

Model name	VITOCAL 333-G BWT 331.C06 SC
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Brine+Water
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	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 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	127 %
COP	3.05
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EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.28 kW	3.85 kW
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EN 14825 | Average Climate

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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	0.10 kW	0.00 kW
Annual energy consumption Q _{he}	2331 kWh	3329 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

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	Low temperature	Medium temperature
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C _{dh} T _j = -7 °C	0.98	0.99
P _{dh} T _j = +2°C	3.10 kW	2.24 kW
COP T _j = +2°C	5.33	4.01
C _{dh} T _j = +2 °C	0.96	0.99
P _{dh} T _j = +7°C	2.21 kW	1.70 kW
COP T _j = +7°C	5.93	4.94
C _{dh} T _j = +7 °C	0.95	0.99
P _{dh} T _j = 12°C	1.76 kW	1.72 kW
COP T _j = 12°C	5.95	5.20
C _{dh} T _j = +12 °C	0.95	0.99
P _{dh} T _j = T _{biv}	6.08 kW	5.99 kW
COP T _j = T _{biv}	4.46	2.87
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	6.08 kW	5.99 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.46	2.87
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.99	0.99
WTOL	65 °C	65 °C
P _{off}	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}	2779 kWh	3801 kWh
P _{dh} T _j = -15°C (if TOL	4.92	4.92
COP T _j = -15°C (if TOL	4.91	3.22

Cdh Tj = -15 °C	0.99	0.99
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EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_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
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