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Summary of	Buderus Logatherm WSW196i.2/186 -6 and -8	Reg. No.	011-1W0434
Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Buderus Logatherm WSW196i.2/186 -6 and -8		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.35 kg		
Certification Date	08.12.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: WSW196i.2-6 T180 (+W) / 186-6 T180

Configure model	
Model name	WSW196i.2-6 T180 (+W) / 186-6 T180
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	No

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.85 kW	5.23 kW
El input	1.34 kW	1.90 kW
COP	4.36	2.76

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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	211 %	147 %
Prated	6.00 kW	5.00 kW
SCOP	5.47	3.87
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.17 kW	4.63 kW
COP Tj = -7°C	4.70	3.01
Pdh Tj = +2°C	3.15 kW	2.82 kW
COP Tj = +2°C	5.56	3.91
Pdh Tj = +7°C	2.02 kW	1.81 kW
COP Tj = +7°C	6.20	4.59
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.09	4.63
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.85 kW	5.23 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	2166 kWh	2749 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	222 %	154 %
Prated	6.00 kW	5.00 kW
SCOP	5.76	4.04

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

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.60 kW	3.17 kW
COP Tj = -7°C	5.57	3.75
Pdh Tj = +2°C	2.15 kW	1.93 kW
COP Tj = +2°C	6.25	4.44
Pdh Tj = +7°C	2.13 kW	1.98 kW
COP Tj = +7°C	6.29	4.77
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.95	5.04
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW

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Annual energy consumption Q_{he}	2477 kWh	3165 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	143 %
Prated	6.00 kW	5.00 kW
SCOP	5.35	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.85 kW	5.23 kW
COP Tj = +2°C	4.36	2.76
Pdh Tj = +7°C	3.76 kW	3.36 kW
COP Tj = +7°C	5.24	3.54
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.14	4.49
Pdh Tj = Tbiv	5.85 kW	5.23 kW

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

COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1402 kWh	1793 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.27
Heating up time	01:34 h:min
Standby power input	30.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.27
Heating up time	01:34 h:min
Standby power input	30.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Warmer Climate

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

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.27
Heating up time	01:34 h:min
Standby power input	30.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Model: WSW196i.2-6 (+W) / 186-6

Configure model	
Model name	WSW196i.2-6 (+W) / 186-6
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	5.85 kW	5.23 kW
El input	1.34 kW	1.90 kW
COP	4.36	2.76

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

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	211 %	147 %
Prated	6.00 kW	5.00 kW
SCOP	5.47	3.87
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.17 kW	4.63 kW
COP Tj = -7°C	4.70	3.01
Pdh Tj = +2°C	3.15 kW	2.82 kW
COP Tj = +2°C	5.56	3.91
Pdh Tj = +7°C	2.02 kW	1.81 kW
COP Tj = +7°C	6.20	4.59
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.09	4.63
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76

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

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.85 kW	5.23 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	2166 kWh	2749 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	222 %	154 %
Prated	6.00 kW	5.00 kW
SCOP	5.76	4.04

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

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.60 kW	3.17 kW
COP Tj = -7°C	5.57	3.75
Pdh Tj = +2°C	2.15 kW	1.93 kW
COP Tj = +2°C	6.25	4.44
Pdh Tj = +7°C	2.13 kW	1.98 kW
COP Tj = +7°C	6.29	4.77
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.95	5.04
Pdh Tj = Tbiv	5.85 kW	5.23 kW
COP Tj = Tbiv	4.36	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.85 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.36	2.76
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW

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

Annual energy consumption Q_{he}	2477 kWh	3165 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	143 %
Prated	6.00 kW	5.00 kW
SCOP	5.35	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.85 kW	5.23 kW
COP Tj = +2°C	4.36	2.76
Pdh Tj = +7°C	3.76 kW	3.36 kW
COP Tj = +7°C	5.24	3.54
Pdh Tj = 12°C	2.12 kW	1.97 kW
COP Tj = 12°C	6.14	4.49
Pdh Tj = Tbiv	5.85 kW	5.23 kW

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

COP $T_j = T_{biv}$	4.36	2.76
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.85 kW	5.23 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.36	2.76
WTOL	67 °C	67 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1402 kWh	1793 kWh

Model: WSW196i.2-8 T180 (+W) / 186-8 T180

Configure model	
Model name	WSW196i.2-8 T180 (+W) / 186-8 T180
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	No

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.61 kW	6.73 kW
El input	1.85 kW	2.56 kW
COP	4.11	2.63

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	207 %	152 %
Prated	7.61 kW	6.73 kW
SCOP	5.38	3.99
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.04 kW	5.86 kW
COP Tj = -7°C	4.33	2.95
Pdh Tj = +2°C	4.22 kW	3.75 kW
COP Tj = +2°C	5.46	4.04
Pdh Tj = +7°C	2.66 kW	2.52 kW
COP Tj = +7°C	6.15	4.77
Pdh Tj = 12°C	2.10 kW	1.99 kW
COP Tj = 12°C	6.26	4.95
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63

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

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.61 kW	6.73 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q_{he}	2923 kWh	3482 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	220 %	158 %
Prated	7.61 kW	6.73 kW
SCOP	5.70	4.16

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

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.58 kW	4.21 kW
COP Tj = -7°C	5.43	3.79
Pdh Tj = +2°C	3.01 kW	2.50 kW
COP Tj = +2°C	6.16	4.63
Pdh Tj = +7°C	2.13 kW	2.01 kW
COP Tj = +7°C	6.51	5.08
Pdh Tj = 12°C	2.10 kW	2.01 kW
COP Tj = 12°C	6.17	5.13
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW

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

Annual energy consumption Q_{he}	3289 kWh	3988 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	153 %
Prated	7.61 kW	6.73 kW
SCOP	5.35	4.02
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.61 kW	6.73 kW
COP Tj = +2°C	4.11	2.63
Pdh Tj = +7°C	5.23 kW	4.14 kW
COP Tj = +7°C	5.10	3.59
Pdh Tj = 12°C	2.66 kW	2.00 kW
COP Tj = 12°C	6.20	4.98
Pdh Tj = Tbiv	7.61 kW	6.73 kW

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

COP Tj = Tbiv	4.11	2.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1899 kWh	2237 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3.01
Heating up time	01:31 h:min
Standby power input	34.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3.01
Heating up time	01:31 h:min
Standby power input	34.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Warmer Climate

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

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Efficiency η_{DHW}	124 %
COP	3.01
Heating up time	01:31 h:min
Standby power input	34.9 W
Reference hot water temperature	47.6 °C
Mixed water at 40°C	211 l

Model: WSW196i.2-8 (+W) / 186-8

Configure model	
Model name	WSW196i.2-8 (+W) / 186-8
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	7.61 kW	6.73 kW
El input	1.85 kW	2.56 kW
COP	4.11	2.63

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

Average 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	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	207 %	152 %
Prated	7.61 kW	6.73 kW
SCOP	5.38	3.99
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.04 kW	5.86 kW
COP Tj = -7°C	4.33	2.95
Pdh Tj = +2°C	4.22 kW	3.75 kW
COP Tj = +2°C	5.46	4.04
Pdh Tj = +7°C	2.66 kW	2.52 kW
COP Tj = +7°C	6.15	4.77
Pdh Tj = 12°C	2.10 kW	1.99 kW
COP Tj = 12°C	6.26	4.95
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63

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

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.61 kW	6.73 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q_{he}	2923 kWh	3482 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	220 %	158 %
Prated	7.61 kW	6.73 kW
SCOP	5.70	4.16

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

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.58 kW	4.21 kW
COP Tj = -7°C	5.43	3.79
Pdh Tj = +2°C	3.01 kW	2.50 kW
COP Tj = +2°C	6.16	4.63
Pdh Tj = +7°C	2.13 kW	2.01 kW
COP Tj = +7°C	6.51	5.08
Pdh Tj = 12°C	2.10 kW	2.01 kW
COP Tj = 12°C	6.17	5.13
Pdh Tj = Tbiv	7.61 kW	6.73 kW
COP Tj = Tbiv	4.11	2.63
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.11	2.63
WTOL	67 °C	67 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW

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

Annual energy consumption Q_{he}	3289 kWh	3988 kWh
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Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	153 %
Prated	7.61 kW	6.73 kW
SCOP	5.35	4.02
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.61 kW	6.73 kW
COP Tj = +2°C	4.11	2.63
Pdh Tj = +7°C	5.23 kW	4.14 kW
COP Tj = +7°C	5.10	3.59
Pdh Tj = 12°C	2.66 kW	2.00 kW
COP Tj = 12°C	6.20	4.98
Pdh Tj = Tbiv	7.61 kW	6.73 kW

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

COP $T_j = T_{biv}$	4.11	2.63
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	7.61 kW	6.73 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.11	2.63
WTOL	67 °C	67 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1899 kWh	2237 kWh