

Subtype WPE-I 12.1 Plus H(W)

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
Address	Dr. Stiebel Straße 33
ZIP	37603
City	Holzminden
Country	DE
Certification Body	RISE CERT
Subtype title	WPE-I 12.1 Plus H(W)
Registration number	012-C700370
Heat Pump Type	Brine/Water and Water/Water
Refrigerant	R290
Mass of Refrigerant	0.52 kg
Certification Date	20.03.2025
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022
Testing laboratory	Universität Stuttgart, Prüfstelle HLK am Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE), DE

Model WPE-I 12.1 Plus H 230

Model name	WPE-I 12.1 Plus H 230
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Brine/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	10.23 kW
El input	1.27 kW	3.49 kW
COP	4.87	2.93

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	208 %	160 %
Prated	11.34 kW	10.23 kW
SCOP	5.40	4.19
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.03 kW	9.05 kW
COP Tj = -7°C	4.57	3.36
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	6.11 kW	5.51 kW
COP Tj = +2 °C	5.53	4.30
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.93 kW	3.54 kW
COP Tj = +7 °C	6.01	4.71
Cdh Tj = +7 °C	0.976	0.978

Pdh Tj = 12°C	3.15 kW	2.70 kW
COP Tj = 12°C	5.94	4.77
Cdh Tj = +12 °C	0.968	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4337 kWh	5046 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	215 %	163 %
Prated	11.34 kW	10.23 kW
SCOP	5.58	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.87 kW	6.19 kW
COP Tj = -7°C	5.46	4.00
Cdh Tj = -7 °C	0.986	0.989
Pdh Tj = +2°C	4.18 kW	3.77 kW
COP Tj = +2°C	5.96	4.70
Cdh Tj = +2 °C	0.977	0.979
Pdh Tj = +7°C	3.16 kW	2.72 kW
COP Tj = +7°C	6.03	4.85
Cdh Tj = +7 °C	0.968	0.970
Pdh Tj = 12°C	3.13 kW	2.72 kW
COP Tj = 12°C	5.80	4.86
Cdh Tj = +12 °C	0.969	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.43 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	5007 kWh	5896 kWh

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	208 %	159 %
Prated	11.34 kW	10.23 kW
SCOP	5.39	4.18
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.34 kW	10.23 kW
COP Tj = +2°C	4.19	2.93
Cdh Tj = +2 °C	0.994	0.995
Pdh Tj = +7°C	7.29 kW	6.58 kW
COP Tj = +7°C	5.25	3.82
Cdh Tj = +7 °C	0.988	0.990
Pdh Tj = 12°C	3.24 kW	2.92 kW
COP Tj = 12°C	6.03	4.99
Cdh Tj = +12 °C	0.970	0.972
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W

PSB	17 W	17 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	2811 kWh	3269 kWh

Water/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.85 kW	13.46 kW
El input	2.93 kW	3.76 kW
COP	4.73	3.58

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	267 %	209 %
Prated	13.85 kW	13.46 kW
SCOP	6.88	5.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.25 kW	11.91 kW
COP Tj = -7°C	5.73	4.02
Cdh Tj = -7 °C	0.992	0.996
Pdh Tj = +2°C	7.46 kW	7.25 kW
COP Tj = +2 °C	7.28	5.38
Cdh Tj = +2 °C	0.985	0.992
Pdh Tj = +7°C	4.79 kW	4.66 kW
COP Tj = +7°C	7.41	6.57
Cdh Tj = +7 °C	0.974	0.985
Pdh Tj = 12°C	3.52 kW	3.82 kW
COP Tj = 12°C	7.33	6.74
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4160 kWh	5134 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	274 %	218 %
Prated	13.85 kW	13.46 kW
SCOP	7.06	5.65
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.38 kW	8.15 kW
COP Tj = -7°C	7.20	5.08
Cdh Tj = -7 °C	0.986	0.993
Pdh Tj = +2°C	5.10 kW	4.96 kW
COP Tj = +2°C	7.47	6.36
Cdh Tj = +2 °C	0.976	0.986
Pdh Tj = +7°C	3.45 kW	3.82 kW
COP Tj = +7°C	7.33	6.80
Cdh Tj = +7 °C	0.964	0.979
Pdh Tj = 12°C	3.58 kW	3.82 kW
COP Tj = 12°C	7.34	6.84
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4834 kWh	5868 kWh
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EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	204 %
P _{rated}	13.85 kW	13.46 kW
SCOP	6.76	5.30
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh Tj = +2°C}	13.85 kW	13.46 kW
COP T _{j = +2°C}	4.73	3.58
C _{dh Tj = +2 °C}	0.994	0.997
P _{dh Tj = +7°C}	8.90 kW	8.65 kW
COP T _{j = +7°C}	6.95	4.71
C _{dh Tj = +7 °C}	0.987	0.994
P _{dh Tj = 12°C}	3.96 kW	3.82 kW
COP T _{j = 12°C}	7.33	6.69
C _{dh Tj = +12 °C}	0.969	0.979
P _{dh Tj = T_{biv}}	13.85 kW	13.46 kW
COP T _{j = T_{biv}}	4.73	3.58
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	13.85 kW	13.46 kW
COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}}	4.73	3.58
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.994	0.997
WTOL	70 °C	70 °C
P _{off}	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2738 kWh	3394 kWh

Model WPE-I 12.1 Plus H 400

Model name	WPE-I 12.1 Plus H 400
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, 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	n/a

Brine/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	10.23 kW
El input	1.27 kW	3.49 kW
COP	4.87	2.93

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	208 %	160 %
Prated	11.34 kW	10.23 kW
SCOP	5.40	4.19
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.03 kW	9.05 kW
COP Tj = -7°C	4.57	3.36
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	6.11 kW	5.51 kW
COP Tj = +2 °C	5.53	4.30
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.93 kW	3.54 kW
COP Tj = +7 °C	6.01	4.71
Cdh Tj = +7 °C	0.976	0.978

Pdh Tj = 12°C	3.15 kW	2.70 kW
COP Tj = 12°C	5.94	4.77
Cdh Tj = +12 °C	0.968	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4337 kWh	5046 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	215 %	163 %
Prated	11.34 kW	10.23 kW
SCOP	5.58	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.87 kW	6.19 kW
COP Tj = -7°C	5.46	4.00
Cdh Tj = -7 °C	0.986	0.989
Pdh Tj = +2°C	4.18 kW	3.77 kW
COP Tj = +2°C	5.96	4.70
Cdh Tj = +2 °C	0.977	0.979
Pdh Tj = +7°C	3.16 kW	2.72 kW
COP Tj = +7°C	6.03	4.85
Cdh Tj = +7 °C	0.968	0.970
Pdh Tj = 12°C	3.13 kW	2.72 kW
COP Tj = 12°C	5.80	4.86
Cdh Tj = +12 °C	0.969	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.43 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	5007 kWh	5896 kWh

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	208 %	159 %
Prated	11.34 kW	10.23 kW
SCOP	5.39	4.18
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.34 kW	10.23 kW
COP Tj = +2°C	4.19	2.93
Cdh Tj = +2 °C	0.994	0.995
Pdh Tj = +7°C	7.29 kW	6.58 kW
COP Tj = +7°C	5.25	3.82
Cdh Tj = +7 °C	0.988	0.990
Pdh Tj = 12°C	3.24 kW	2.92 kW
COP Tj = 12°C	6.03	4.99
Cdh Tj = +12 °C	0.970	0.972
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W

PSB	17 W	17 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	2811 kWh	3269 kWh

Water/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.85 kW	13.46 kW
El input	2.93 kW	3.76 kW
COP	4.73	3.58

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	267 %	209 %
Prated	13.85 kW	13.46 kW
SCOP	6.88	5.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.25 kW	11.91 kW
COP Tj = -7°C	5.73	4.02
Cdh Tj = -7 °C	0.992	0.996
Pdh Tj = +2°C	7.46 kW	7.25 kW
COP Tj = +2 °C	7.28	5.38
Cdh Tj = +2 °C	0.985	0.992
Pdh Tj = +7°C	4.79 kW	4.66 kW
COP Tj = +7°C	7.41	6.57
Cdh Tj = +7 °C	0.974	0.985
Pdh Tj = 12°C	3.52 kW	3.82 kW
COP Tj = 12°C	7.33	6.74
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4160 kWh	5134 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	274 %	218 %
Prated	13.85 kW	13.46 kW
SCOP	7.06	5.65
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.38 kW	8.15 kW
COP Tj = -7°C	7.20	5.08
Cdh Tj = -7 °C	0.986	0.993
Pdh Tj = +2°C	5.10 kW	4.96 kW
COP Tj = +2°C	7.47	6.36
Cdh Tj = +2 °C	0.976	0.986
Pdh Tj = +7°C	3.45 kW	3.82 kW
COP Tj = +7°C	7.33	6.80
Cdh Tj = +7 °C	0.964	0.979
Pdh Tj = 12°C	3.58 kW	3.82 kW
COP Tj = 12°C	7.34	6.84
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4834 kWh	5868 kWh
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EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	204 %
P _{rated}	13.85 kW	13.46 kW
SCOP	6.76	5.30
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh Tj = +2°C}	13.85 kW	13.46 kW
COP T _{j = +2°C}	4.73	3.58
C _{dh Tj = +2 °C}	0.994	0.997
P _{dh Tj = +7°C}	8.90 kW	8.65 kW
COP T _{j = +7°C}	6.95	4.71
C _{dh Tj = +7 °C}	0.987	0.994
P _{dh Tj = 12°C}	3.96 kW	3.82 kW
COP T _{j = 12°C}	7.33	6.69
C _{dh Tj = +12 °C}	0.969	0.979
P _{dh Tj = T_{biv}}	13.85 kW	13.46 kW
COP T _{j = T_{biv}}	4.73	3.58
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	13.85 kW	13.46 kW
COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}}	4.73	3.58
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.994	0.997
WTOL	70 °C	70 °C
P _{off}	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2738 kWh	3394 kWh

Model WPE-I 12.1 Plus HW 400

Model name	WPE-I 12.1 Plus HW 400
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder, Warmer, 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	n/a

Brine/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	10.23 kW
El input	1.27 kW	3.49 kW
COP	4.87	2.93

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	208 %	160 %
Prated	11.34 kW	10.23 kW
SCOP	5.40	4.19
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.03 kW	9.05 kW
COP Tj = -7°C	4.57	3.36
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	6.11 kW	5.51 kW
COP Tj = +2°C	5.53	4.30
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.93 kW	3.54 kW
COP Tj = +7°C	6.01	4.71
Cdh Tj = +7 °C	0.976	0.978
Pdh Tj = 12°C	3.15 kW	2.70 kW
COP Tj = 12°C	5.94	4.77
Cdh Tj = +12 °C	0.968	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4337 kWh	5046 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	215 %	163 %
Prated	11.34 kW	10.23 kW
SCOP	5.58	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.87 kW	6.19 kW
COP Tj = -7°C	5.46	4.00
Cdh Tj = -7 °C	0.986	0.989
Pdh Tj = +2°C	4.18 kW	3.77 kW
COP Tj = +2°C	5.96	4.70
Cdh Tj = +2 °C	0.977	0.979
Pdh Tj = +7°C	3.16 kW	2.72 kW
COP Tj = +7°C	6.03	4.85
Cdh Tj = +7 °C	0.968	0.970
Pdh Tj = 12°C	3.13 kW	2.72 kW
COP Tj = 12°C	5.80	4.86
Cdh Tj = +12 °C	0.969	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.43 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.944	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	5007 kWh	5896 kWh
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	208 %	159 %
Prated	11.34 kW	10.23 kW
SCOP	5.39	4.18
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.34 kW	10.23 kW
COP Tj = +2°C	4.19	2.93
Cdh Tj = +2 °C	0.994	0.995
Pdh Tj = +7°C	7.29 kW	6.58 kW
COP Tj = +7°C	5.25	3.82
Cdh Tj = +7 °C	0.988	0.990
Pdh Tj = 12°C	3.24 kW	2.92 kW
COP Tj = 12°C	6.03	4.99
Cdh Tj = +12 °C	0.970	0.972
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2811 kWh	3269 kWh

Water/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency ηDHW	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency ηDHW	123 %
COP	3.06

Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.85 kW	13.46 kW
El input	2.93 kW	3.76 kW
COP	4.73	3.58

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	267 %	209 %
Prated	13.85 kW	13.46 kW
SCOP	6.88	5.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.25 kW	11.91 kW
COP Tj = -7°C	5.73	4.02
Cdh Tj = -7 °C	0.992	0.996
Pdh Tj = +2°C	7.46 kW	7.25 kW
COP Tj = +2°C	7.28	5.38
Cdh Tj = +2 °C	0.985	0.992
Pdh Tj = +7°C	4.79 kW	4.66 kW
COP Tj = +7°C	7.41	6.57
Cdh Tj = +7 °C	0.974	0.985
Pdh Tj = 12°C	3.52 kW	3.82 kW
COP Tj = 12°C	7.33	6.74
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW

COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4160 kWh	5134 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	274 %	218 %
Prated	13.85 kW	13.46 kW
SCOP	7.06	5.65
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.38 kW	8.15 kW
COP Tj = -7°C	7.20	5.08
Cdh Tj = -7 °C	0.986	0.993
Pdh Tj = +2°C	5.10 kW	4.96 kW
COP Tj = +2°C	7.47	6.36
Cdh Tj = +2 °C	0.976	0.986
Pdh Tj = +7°C	3.45 kW	3.82 kW
COP Tj = +7°C	7.33	6.80
Cdh Tj = +7 °C	0.964	0.979
Pdh Tj = 12°C	3.58 kW	3.82 kW
COP Tj = 12°C	7.34	6.84
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W

PSB	17 W	17 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	4834 kWh	5868 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	204 %
Prated	13.85 kW	13.46 kW
SCOP	6.76	5.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.85 kW	13.46 kW
COP Tj = +2°C	4.73	3.58
Cdh Tj = +2 °C	0.994	0.997
Pdh Tj = +7°C	8.90 kW	8.65 kW
COP Tj = +7°C	6.95	4.71
Cdh Tj = +7 °C	0.987	0.994
Pdh Tj = 12°C	3.96 kW	3.82 kW
COP Tj = 12°C	7.33	6.69
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2738 kWh	3394 kWh

Model WPE-I 12.1 Plus HW 230

Model name	WPE-I 12.1 Plus HW 230
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Brine/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	10.23 kW
El input	1.27 kW	3.49 kW
COP	4.87	2.93

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	208 %	160 %
Prated	11.34 kW	10.23 kW
SCOP	5.40	4.19
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.03 kW	9.05 kW
COP Tj = -7°C	4.57	3.36
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	6.11 kW	5.51 kW
COP Tj = +2°C	5.53	4.30
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.93 kW	3.54 kW
COP Tj = +7°C	6.01	4.71
Cdh Tj = +7 °C	0.976	0.978
Pdh Tj = 12°C	3.15 kW	2.70 kW
COP Tj = 12°C	5.94	4.77
Cdh Tj = +12 °C	0.968	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4337 kWh	5046 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	215 %	163 %
Prated	11.34 kW	10.23 kW
SCOP	5.58	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.87 kW	6.19 kW
COP Tj = -7°C	5.46	4.00
Cdh Tj = -7 °C	0.986	0.989
Pdh Tj = +2°C	4.18 kW	3.77 kW
COP Tj = +2°C	5.96	4.70
Cdh Tj = +2 °C	0.977	0.979
Pdh Tj = +7°C	3.16 kW	2.72 kW
COP Tj = +7°C	6.03	4.85
Cdh Tj = +7 °C	0.968	0.970
Pdh Tj = 12°C	3.13 kW	2.72 kW
COP Tj = 12°C	5.80	4.86
Cdh Tj = +12 °C	0.969	0.970
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.43 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.944	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	5007 kWh	5896 kWh
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	208 %	159 %
Prated	11.34 kW	10.23 kW
SCOP	5.39	4.18
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.34 kW	10.23 kW
COP Tj = +2°C	4.19	2.93
Cdh Tj = +2 °C	0.994	0.995
Pdh Tj = +7°C	7.29 kW	6.58 kW
COP Tj = +7°C	5.25	3.82
Cdh Tj = +7 °C	0.988	0.990
Pdh Tj = 12°C	3.24 kW	2.92 kW
COP Tj = 12°C	6.03	4.99
Cdh Tj = +12 °C	0.970	0.972
Pdh Tj = Tbiv	11.34 kW	10.23 kW
COP Tj = Tbiv	4.19	2.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.34 kW	10.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.19	2.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2811 kWh	3269 kWh

Water/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency ηDHW	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency ηDHW	123 %
COP	3.06

Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	123 %
COP	3.06
Heating up time	1:55 h:min
Standby power input	34.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	227 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.85 kW	13.46 kW
El input	2.93 kW	3.76 kW
COP	4.73	3.58

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	267 %	209 %
Prated	13.85 kW	13.46 kW
SCOP	6.88	5.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.25 kW	11.91 kW
COP Tj = -7°C	5.73	4.02
Cdh Tj = -7 °C	0.992	0.996
Pdh Tj = +2°C	7.46 kW	7.25 kW
COP Tj = +2°C	7.28	5.38
Cdh Tj = +2 °C	0.985	0.992
Pdh Tj = +7°C	4.79 kW	4.66 kW
COP Tj = +7°C	7.41	6.57
Cdh Tj = +7 °C	0.974	0.985
Pdh Tj = 12°C	3.52 kW	3.82 kW
COP Tj = 12°C	7.33	6.74
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW

COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	4160 kWh	5134 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	274 %	218 %
Prated	13.85 kW	13.46 kW
SCOP	7.06	5.65
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.38 kW	8.15 kW
COP Tj = -7°C	7.20	5.08
Cdh Tj = -7 °C	0.986	0.993
Pdh Tj = +2°C	5.10 kW	4.96 kW
COP Tj = +2°C	7.47	6.36
Cdh Tj = +2 °C	0.976	0.986
Pdh Tj = +7°C	3.45 kW	3.82 kW
COP Tj = +7°C	7.33	6.80
Cdh Tj = +7 °C	0.964	0.979
Pdh Tj = 12°C	3.58 kW	3.82 kW
COP Tj = 12°C	7.34	6.84
Cdh Tj = +12 °C	0.965	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W

PSB	17 W	17 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	4834 kWh	5868 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	262 %	204 %
Prated	13.85 kW	13.46 kW
SCOP	6.76	5.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.85 kW	13.46 kW
COP Tj = +2°C	4.73	3.58
Cdh Tj = +2 °C	0.994	0.997
Pdh Tj = +7°C	8.90 kW	8.65 kW
COP Tj = +7°C	6.95	4.71
Cdh Tj = +7 °C	0.987	0.994
Pdh Tj = 12°C	3.96 kW	3.82 kW
COP Tj = 12°C	7.33	6.69
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	13.85 kW	13.46 kW
COP Tj = Tbiv	4.73	3.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.85 kW	13.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.997
WTOL	70 °C	70 °C
Poff	17 W	17 W
PTO	19 W	19 W
PSB	17 W	17 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	2738 kWh	3394 kWh