

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Ecodan Zubadan 23	Reg. No.	037-0057-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe LTD		
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Name of testing laboratory	CEIS		
Subtype title	Ecodan Zubadan 23		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	7.7 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: PUAZ-SHW230YKA2 + EHSE-M*C

General Data

Power supply	3x400V 50Hz
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Average Climate

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	25.00 kW	23.00 kW
SCOP	4.18	3.25
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.95	0.95
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	0.95
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.95
Pdh Tj = 12°C	14.60 kW	13.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	6.68	5.79
Cdh	0.95	0.95
Pdh Tj = Tbiv	25.00 kW	23.00 kW
COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

Heating

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.96 m ³ /h	2.47 m ³ /h

EN 14511-4

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

Model: PUAZ-SHW230YKA2 + EHSE-YM*C

General Data

Power supply	3x400V 50Hz
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Average Climate

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	25.00 kW	23.00 kW
SCOP	4.18	3.25
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.95	0.95
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	0.95
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.95
Pdh Tj = 12°C	14.60 kW	13.70 kW

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COP Tj = 12°C	6.68	5.79
Cdh	0.95	0.95
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COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

Heating

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.96 m ³ /h	2.47 m ³ /h

EN 14511-4

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

Model: PUAZ-SHW230YKA2 + ERSE-M*C

General Data

Power supply	3x400V 50Hz
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Average Climate

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	25.00 kW	23.00 kW
SCOP	4.21	3.28
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.95	0.95
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	0.95
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.95
Pdh Tj = 12°C	14.60 kW	13.70 kW

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WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

Heating

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.96 m ³ /h	2.47 m ³ /h

EN 14511-4

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

Model: PUAZ-SHW230YKA2 + ERSE-YM*C

General Data

Power supply	3x400V 50Hz
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Average Climate

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	25.00 kW	23.00 kW
SCOP	4.21	3.28
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.95	0.95
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	0.95
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.95
Pdh Tj = 12°C	14.60 kW	13.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	6.68	5.79
Cdh	0.95	0.95
Pdh Tj = Tbiv	25.00 kW	23.00 kW
COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

Heating

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.96 m ³ /h	2.47 m ³ /h

EN 14511-4

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

Model: PUAZ-SHW230YKA2(-BS) + EHSE-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.95 m ³ /h	2.47 m ³ /h

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 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	25.00 kW	23.00 kW
SCOP	4.18	3.25
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.98	1.00
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	1.00
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	14.60 kW	13.70 kW
COP Tj = 12°C	6.68	5.79
Cdh	0.98	0.99
Pdh Tj = Tbiv	25.00 kW	23.00 kW
COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	199 %	127 %
Prated	23.00 kW	22.80 kW
SCOP	5.06	3.79
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	23.00 kW	22.80 kW
COP Tj = +2°C	2.47	1.66
Cdh	0.98	0.95
Pdh Tj = +7°C	14.80 kW	14.70 kW
COP Tj = +7°C	4.61	3.17
Cdh	0.98	0.98
Pdh Tj = 12°C	14.30 kW	13.60 kW
COP Tj = 12°C	6.41	5.33
Cdh	0.98	0.98
Pdh Tj = Tbiv	25.00 kW	20.30 kW
COP Tj = Tbiv	2.19	2.00
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.24
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	5989 kWh	7952 kWh

Model: PUAZ-SHW230YKA2(-BS) + EHSE-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.95 m ³ /h	2.47 m ³ /h

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 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	164 %	127 %
Prated	25.00 kW	23.00 kW
SCOP	4.18	3.25
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.98	1.00
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	1.00
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	14.60 kW	13.70 kW
COP Tj = 12°C	6.68	5.79
Cdh	0.98	0.99
Pdh Tj = Tbiv	25.00 kW	23.00 kW
COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	199 %	127 %
Prated	23.00 kW	22.80 kW
SCOP	5.06	3.79
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	23.00 kW	22.80 kW
COP Tj = +2°C	2.47	1.66
Cdh	0.98	0.95
Pdh Tj = +7°C	14.80 kW	14.70 kW
COP Tj = +7°C	4.61	3.17
Cdh	0.98	0.98
Pdh Tj = 12°C	14.30 kW	13.60 kW
COP Tj = 12°C	6.41	5.33
Cdh	0.98	0.98
Pdh Tj = Tbiv	25.00 kW	20.30 kW
COP Tj = Tbiv	2.19	2.00
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.24
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	5989 kWh	7952 kWh

Model: PUAZ-SHW230YKA2(-BS) + ERSE-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.95 m ³ /h	2.47 m ³ /h

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 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	128 %
Prated	25.00 kW	23.00 kW
SCOP	4.21	3.28
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
Cdh	0.98	1.00
Pdh Tj = +2°C	13.50 kW	12.40 kW
COP Tj = +2°C	3.82	3.07
Cdh	0.95	1.00
Pdh Tj = +7°C	12.00 kW	11.20 kW
COP Tj = +7°C	5.32	4.54
Cdh	0.95	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	14.60 kW	13.70 kW
COP Tj = 12°C	6.68	5.79
Cdh	0.98	0.99
Pdh Tj = Tbiv	25.00 kW	23.00 kW
COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	202 %	128 %
Prated	23.00 kW	22.80 kW
SCOP	5.11	3.82
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	23.00 kW	22.80 kW
COP Tj = +2°C	2.47	1.66
Cdh	0.98	0.95
Pdh Tj = +7°C	14.80 kW	14.70 kW
COP Tj = +7°C	4.61	3.17
Cdh	0.98	0.98
Pdh Tj = 12°C	14.30 kW	13.60 kW
COP Tj = 12°C	6.41	5.33
Cdh	0.98	0.98
Pdh Tj = Tbiv	25.00 kW	20.30 kW
COP Tj = Tbiv	2.19	2.00
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.24
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	5989 kWh	7952 kWh

Model: PUAZ-SHW230YKA2(-BS) + ERSE-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
COP	3.65	2.47
Indoor water flow rate	3.95 m ³ /h	2.47 m ³ /h

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 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825

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η_s	165 %	128 %
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SCOP	4.21	3.28
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	22.10 kW	20.30 kW
COP Tj = -7°C	3.40	2.10
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COP Tj = Tbiv	2.19	1.85
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.30
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	12242 kWh	14472 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825

	Low temperature	Medium temperature
η_s	202 %	128 %
Prated	23.00 kW	22.80 kW
SCOP	5.11	3.82
Tbiv	-10 °C	-10 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	23.00 kW	22.80 kW
COP Tj = +2°C	2.47	1.66
Cdh	0.98	0.95
Pdh Tj = +7°C	14.80 kW	14.70 kW
COP Tj = +7°C	4.61	3.17
Cdh	0.98	0.98
Pdh Tj = 12°C	14.30 kW	13.60 kW
COP Tj = 12°C	6.41	5.33
Cdh	0.98	0.98
Pdh Tj = Tbiv	25.00 kW	20.30 kW
COP Tj = Tbiv	2.19	2.00
Pdh Tj = TOL	16.00 kW	16.00 kW
COP Tj = TOL	1.24	1.24
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	5989 kWh	7952 kWh