

#### Page 1 of 33

#### 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	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			

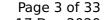


# Model: PUHZ-SHW230YKA2 + EHSE-M\*C

General Data	
Power supply	3x400V 50Hz

# Average Climate

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	
$COP Tj = -7^{\circ}C$	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 = $+7^{\circ}$ 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 6.68  $COP Tj = 12^{\circ}C$ 5.79 Cdh 0.95 0.95 25.00 kW 23.00 kW Pdh Tj = TbivCOP Tj = Tbiv 2.19 1.85 Pdh Tj = TOL16.00 kW 16.00 kW COP Tj = TOL1.24 1.30 60 °C 60 °C WTOL Poff 22 W 22 W PTO 22 W 22 W 22 W **PSB** 22 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW

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)

12242 kWh

14472 kWh

### Heating

Annual energy consumption Qhe



 $$\operatorname{\textit{Page}}\xspace$  4 of 33 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
СОР	3.65	2.47
Indoor water flow rate	3.96 m³/h	2.47 m³/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: PUHZ-SHW230YKA2 + EHSE-YM\*C

General Data		
Power supply	3x400V 50Hz	

# Average Climate

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	





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
РТО	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



 $$\operatorname{\textit{Page}}\ 7$$  of 33 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
СОР	3.65	2.47
Indoor water flow rate	3.96 m³/h	2.47 m³/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: PUHZ-SHW230YKA2 + ERSE-M\*C

General Data	
Power supply	3x400V 50Hz

# Average Climate

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	
$COP Tj = -7^{\circ}C$	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 = $+7^{\circ}$ C	12.00 kW	11.20 kW	
$COPTj = +7^{\circ}C$	5.32	4.54	
Cdh	0.95	0.95	
Pdh Tj = 12°C	14.60 kW	13.70 kW	





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
РТО	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



 $$\operatorname{\textit{Page}}\ 10$$  of 33 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
СОР	3.65	2.47
Indoor water flow rate	3.96 m³/h	2.47 m³/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

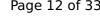


# Model: PUHZ-SHW230YKA2 + ERSE-YM\*C

General Data	
Power supply	3x400V 50Hz

# Average Climate

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	





 $$\operatorname{\textit{Page}}\ 12$ of 33$$  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
РТО	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



 $$\operatorname{\textit{Page}}\ 13$$  of 33 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
СОР	3.65	2.47
Indoor water flow rate	3.96 m³/h	2.47 m³/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: PUHZ-SHW230YKA2(-BS) + EHSE-M\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
СОР	3.65	2.47
Indoor water flow rate	3.95 m³/h	2.47 m³/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	

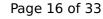
## **Average Climate**



 $$\operatorname{\textit{Page}}\ 15$$  of 33 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
$\eta_{s}$	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





Teracea by the rin Reini	
14.60 kW	13.70 kW
6.68	5.79
0.98	0.99
25.00 kW	23.00 kW
2.19	1.85
16.00 kW	16.00 kW
1.24	1.30
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
0.00 kW	0.00 kW
12242 kWh	14472 kWh
	14.60 kW 6.68 0.98 25.00 kW 2.19 16.00 kW 1.24 60 °C 22 W 22 W 22 W 0 W electricity 0.00 kW

### 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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\ 18$$ of 33 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o 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: PUHZ-SHW230YKA2(-BS) + EHSE-YM\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
СОР	3.65	2.47
Indoor water flow rate	3.95 m³/h	2.47 m³/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	

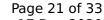
## **Average Climate**





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
$\eta_{s}$	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





Teracea by the rin Reini	
14.60 kW	13.70 kW
6.68	5.79
0.98	0.99
25.00 kW	23.00 kW
2.19	1.85
16.00 kW	16.00 kW
1.24	1.30
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
0.00 kW	0.00 kW
12242 kWh	14472 kWh
	14.60 kW 6.68 0.98 25.00 kW 2.19 16.00 kW 1.24 60 °C 22 W 22 W 22 W 0 W electricity 0.00 kW

### 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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\xspace$ 23 of 33 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o 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: PUHZ-SHW230YKA2(-BS) + ERSE-M\*D

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	23.00 kW	23.00 kW
El input	6.30 kW	9.31 kW
СОР	3.65	2.47
Indoor water flow rate	3.95 m³/h	2.47 m³/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**



 $$\operatorname{\textit{Page}}\xspace$  25 of 33 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
$\eta_{s}$	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





Teracea by the rin Reini	
14.60 kW	13.70 kW
6.68	5.79
0.98	0.99
25.00 kW	23.00 kW
2.19	1.85
16.00 kW	16.00 kW
1.24	1.30
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
0.00 kW	0.00 kW
12242 kWh	14472 kWh
	14.60 kW 6.68 0.98 25.00 kW 2.19 16.00 kW 1.24 60 °C 22 W 22 W 22 W 0 W electricity 0.00 kW

### 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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\xspace$ 28 of 33 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o 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: PUHZ-SHW230YKA2(-BS) + ERSE-YM\*D

General Data	
Power supply 3x400V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	23.00 kW	23.00 kW	
El input	6.30 kW	9.31 kW	
СОР	3.65	2.47	
Indoor water flow rate	3.95 m³/h	2.47 m³/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	

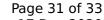
## Average Climate





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
$\eta_{s}$	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





Teracea by the rin Reini	
14.60 kW	13.70 kW
6.68	5.79
0.98	0.99
25.00 kW	23.00 kW
2.19	1.85
16.00 kW	16.00 kW
1.24	1.30
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
electricity	electricity
0.00 kW	0.00 kW
12242 kWh	14472 kWh
	14.60 kW 6.68 0.98 25.00 kW 2.19 16.00 kW 1.24 60 °C 22 W 22 W 22 W 0 W electricity 0.00 kW

### 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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\xspace$ 33 of 33 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	22 W	22 W
РТО	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