

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

Summary of	Ecodan Eco Inverter 4	Reg. No.	037-0048-20
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	RISE Research Institute of Sweden		
Subtype title	Ecodan Eco Inverter 4		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.3 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		

Model: SUHZ-SW45VA(H) + EHST20D-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

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

EN 12102-1

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + EHST20D-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
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Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + EHST20D-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
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Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + EHSD-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70
Indoor water flow rate	0.71 m ³ /h	0.51 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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	170 %	126 %
Prated	5.00 kW	4.60 kW
SCOP	4.33	3.22
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh	0.97	0.97

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

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL	2.70 kW	2.70 kW
COP Tj = TOL	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + EHSD-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70
Indoor water flow rate	0.71 m ³ /h	0.51 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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	170 %	126 %
Prated	5.00 kW	4.60 kW
SCOP	4.33	3.22
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh	0.97	0.97

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

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL	2.70 kW	2.70 kW
COP Tj = TOL	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + EHSD-YM*C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70
Indoor water flow rate	0.71 m ³ /h	0.51 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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	170 %	126 %
Prated	5.00 kW	4.60 kW
SCOP	4.33	3.22
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh	0.97	0.97

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

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL	2.70 kW	2.70 kW
COP Tj = TOL	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + EHST20D-VM*C2

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	126 %
Prated	4.60 kW
SCOP	3.22
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	159 %
COP	3.78
Heating up time	2:34 h:min
Reference hot water temperature	52.5 °C
Mixed water at 40°C	281 l
Standby power input	23.0 W

Model: SUHZ-SW45VA(H) + ERSD-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.10 kW	4.70 kW
El input	0.80 kW	1.74 kW
COP	5.10	2.70
Indoor water flow rate	0.71 m ³ /h	0.51 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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	174 %	128 %
Prated	5.00 kW	4.60 kW
SCOP	4.43	3.28
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.10 kW
COP Tj = -7°C	2.82	1.78
Cdh	0.97	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.41	3.29
Cdh	0.97	0.97
Pdh Tj = +7°C	3.30 kW	3.10 kW
COP Tj = +7°C	5.48	4.40
Cdh	0.97	0.97

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

Pdh Tj = 12°C	2.50 kW	2.80 kW
COP Tj = 12°C	8.60	6.71
Cdh	0.97	0.97
Pdh Tj = Tbiv	4.40 kW	4.10 kW
COP Tj = Tbiv	2.82	1.78
Pdh Tj = TOL	2.70 kW	2.70 kW
COP Tj = TOL	1.21	1.27
WTOL	55 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.00 kW
Annual energy consumption Qhe	2284 kWh	2886 kWh

Model: SUHZ-SW45VA(H) + ERST20D-M*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

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

EN 12102-1

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.72
Heating up time	2:38 h:min
Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + ERST20D-VM*C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 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

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EN 12102-1

	Medium temperature
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EN 14825

	Medium temperature
η_s	128 %
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COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.72
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Standby power input	36.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	278 l

Model: SUHZ-SW45VA(H) + ERST20D-VM*C2

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Medium temperature
Heat output	4.70 kW
El input	1.74 kW
COP	2.70
Indoor water flow rate	0.51 m³/h

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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

	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	61 dB(A)

EN 14825

	Medium temperature
η_s	128 %
Prated	4.60 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-15 °C
Pdh Tj = -7°C	4.10 kW
COP Tj = -7°C	1.78
Cdh	0.97
Pdh Tj = +2°C	2.50 kW
COP Tj = +2°C	3.29
Cdh	0.97
Pdh Tj = +7°C	3.10 kW
COP Tj = +7°C	4.40
Cdh	0.97

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

Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.71
Cdh	0.97
Pdh Tj = Tbiv	4.10 kW
COP Tj = Tbiv	1.78
Pdh Tj = TOL	2.70 kW
COP Tj = TOL	1.27
WTOL	55 °C
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	2886 kWh

Domestic Hot Water (DHW)

Average Climate

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Standby power input	23.0 W
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