

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

Summary of	Ecodan Zubadan 8/11-300D AA	Reg. No.	037-0016-20
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	Heat Pump Test Center WPZ, Switzerland		
Subtype title	Ecodan Zubadan 8/11-300D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.6 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUAZ-SHW80VAA + EHST30C-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.70
Indoor water flow rate	1.38 m ³ /h	0.86 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	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	133 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.40
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99

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

Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 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	XL
Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW80YAA + EHST30C-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.70
Indoor water flow rate	1.38 m ³ /h	0.86 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

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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	132 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99

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Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4500 kWh	5377 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	XL
Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW112VAA + EHST30C-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71
Indoor water flow rate	1.93 m ³ /h	1.20 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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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	171 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.10 kW	1.80 kW
Annual energy consumption Qhe	6476 kWh	7449 kWh

Domestic Hot Water (DHW)

Average Climate

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Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW112YAA + EHST30C-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /h

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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
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COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 kWh

Domestic Hot Water (DHW)

Average Climate

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COP	2.90
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Model: PUAZ-SHW80VAA + EHST30C-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
COP	4.65	2.70
Indoor water flow rate	1.38 m ³ /h	0.86 m ³ /h

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	Low temperature	Medium temperature
η_s	169 %	133 %
Prated	9.60 kW	9.00 kW
SCOP	4.31	3.40
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 kWh

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SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	8.50 kW	8.00 kW
COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
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COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4500 kWh	5377 kWh

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Average Climate

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Model: PUAZ-SHW112VAA + EHST30C-YM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71
Indoor water flow rate	1.93 m ³ /h	1.20 m ³ /h

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SCOP	4.34	3.46
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.10 kW	1.80 kW
Annual energy consumption Qhe	6476 kWh	7449 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 14511-2

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Heat output	11.20 kW	11.20 kW
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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	169 %	135 %
Prated	13.90 kW	12.70 kW
SCOP	4.31	3.44
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
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Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 kWh

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Average Climate

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Model: PUAZ-SHW80VAA + ERST30C-VM*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
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	Low temperature	Medium temperature
η_s	172 %	135 %
Prated	9.60 kW	9.00 kW
SCOP	4.38	3.45
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
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Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
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Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	4487 kWh	5364 kWh

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Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
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Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW80YAA + ERST30C-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.72 kW	2.96 kW
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COP Tj = -7°C	3.15	2.13
Cdh	0.99	1.00
Pdh Tj = +2°C	5.20 kW	4.90 kW
COP Tj = +2°C	4.10	3.31
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	5.40 kW
COP Tj = +7°C	5.62	4.66
Cdh	0.98	0.99

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

Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.53	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.50 kW	8.00 kW
COP Tj = Tbiv	3.15	2.13
Pdh Tj = TOL	8.80 kW	8.80 kW
COP Tj = TOL	1.75	1.75
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	1.20 kW	1.10 kW
Annual energy consumption Qhe	4500 kWh	5377 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	XL
Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW112VAA + ERST30C-VM*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71
Indoor water flow rate	1.93 m ³ /h	1.20 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	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	137 %
Prated	13.90 kW	12.70 kW
SCOP	4.39	3.50
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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

Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.10 kW	1.80 kW
Annual energy consumption Qhe	6476 kWh	7449 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	XL
Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUAZ-SHW112YAA + ERST30C-VM*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	11.20 kW	11.20 kW
El input	2.51 kW	4.13 kW
COP	4.46	2.71
Indoor water flow rate	1.93 m ³ /h	1.20 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	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	137 %
Prated	13.90 kW	12.70 kW
SCOP	4.39	3.49
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	12.30 kW	11.20 kW
COP Tj = -7°C	3.15	2.12
Cdh	1.00	1.00
Pdh Tj = +2°C	7.50 kW	6.80 kW
COP Tj = +2°C	4.12	3.34
Cdh	0.99	0.99
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.56	4.79
Cdh	0.98	0.99

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

Pdh Tj = 12°C	5.60 kW	5.30 kW
COP Tj = 12°C	7.45	6.12
Cdh	0.98	0.98
Pdh Tj = Tbiv	12.30 kW	11.20 kW
COP Tj = Tbiv	3.15	2.12
Pdh Tj = TOL	11.35 kW	11.35 kW
COP Tj = TOL	2.07	2.07
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	2.10 kW	1.80 kW
Annual energy consumption Qhe	6484 kWh	7457 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	XL
Efficiency η_{DHW}	120 %
COP	2.90
Heating up time	03:41 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l