

This information was generated by the HP KEYMARK database on 22 Jun 2022

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Summary of	Ecodan Power Inverter 11-300D Packaged AA	Reg. No.	037-0037-20
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)		
Subtype title	Ecodan Power Inverter 11-300D Packaged AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	3 kg		
Certification Date	27.07.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUZ-WM112VAA(-BS) + EHPT30X-*M*D

Configure model	
Model name	PUZ-WM112VAA(-BS) + EHPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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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	215 %	152 %
Prated	10 kW	10 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
COP Tj = +7°C	4.82	3.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98

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Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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	0 kW	0 kW
Annual energy consumption Qhe	2449 kWh	3452 kWh

Average Climate

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	191 %	134 %
Prated	10 kW	10 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.56	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

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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	1.22 kW	1.22 kW
Annual energy consumption Q _{he}	4251 kWh	6024 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM112VAA(-BS) + EHPT30X-M*D

Configure model	
Model name	PUZ-WM112VAA(-BS) + EHPT30X-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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EN 14825

	Low temperature	Medium temperature
η_s	215 %	152 %
Prated	10 kW	10 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
COP Tj = +7°C	4.82	3.15
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98

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Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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	0 kW	0 kW
Annual energy consumption Qhe	2449 kWh	3452 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
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Sound power level outdoor	60 dB(A)	60 dB(A)

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Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.56	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.6 kW	4.7 kW
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Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.22 kW	1.22 kW
Annual energy consumption Q _{he}	4251 kWh	6024 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM112VAA(-BS) + ERPT30X-*M*D

Configure model	
Model name	PUZ-WM112VAA(-BS) + ERPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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	220 %	154 %
Prated	10 kW	10 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
COP Tj = +7°C	4.76	3.11
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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	0 kW	0 kW
Annual energy consumption Qhe	2396 kWh	3396 kWh

Average Climate

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	195 %	136 %
Prated	10 kW	10 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.61	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.22 kW	1.22 kW
Annual energy consumption Qhe	4173 kWh	5932 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM112YAA(-BS) + EHPT30X-*M*D

Configure model	
Model name	PUZ-WM112YAA(-BS) + EHPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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	213 %	150 %
Prated	10 kW	10 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
COP Tj = +7°C	4.85	3.15
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.22	5.67
Cdh Tj = +12 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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 kW	0 kW
Annual energy consumption Qhe	2471 kWh	3483 kWh

Average Climate

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	189 %	133 %
Prated	10 kW	10 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.55	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.22 kW	1.22 kW
Annual energy consumption Q _{he}	4293 kWh	6063 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM112YAA(-BS) + EHPT30X-M*D

Configure model	
Model name	PUZ-WM112YAA(-BS) + EHPT30X-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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	213 %	150 %
Prated	10 kW	10 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
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This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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 kW	0 kW
Annual energy consumption Qhe	2471 kWh	3483 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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Cdh Tj = -7 °C	0.99	0.99
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COP Tj = +2°C	4.55	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

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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	1.22 kW	1.22 kW
Annual energy consumption Q _{he}	4293 kWh	6063 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM112YAA(-BS) + ERPT30X-*M*D

Configure model	
Model name	PUZ-WM112YAA(-BS) + ERPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
COP	4.7	3

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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	220 %	154 %
Prated	10 kW	10 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
COP Tj = +7°C	4.78	3.12
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.2	5.67
Cdh Tj = +12 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
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 kW	0 kW
Annual energy consumption Qhe	2392 kWh	3401 kWh

Average Climate

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	195 %	136 %
Prated	10 kW	10 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.64	3.32
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	1.22 kW	1.22 kW
Annual energy consumption Qhe	4171 kWh	5936 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.91
Heating up time	03:10 h:min
Standby power input	40 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l