

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

Summary of	Ecodan Power Inverter 6/8-200D AA	Reg. No.	037-0019-20
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	Universität Stuttgart, IGE, Prüfstelle HLK		
Subtype title	Ecodan Power Inverter 6/8-200D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.3 kg		
Certification Date	30.11.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUD-SWM60VAA(-BS) + E*ST20D-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
COP	4.76	2.65
Indoor water flow rate	0.86 m ³ /h	0.54 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	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	4.46	3.33
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.21	2.09
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.21
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.77
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.74
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.21	2.09
Pdh Tj = TOL	4.00 kW	3.90 kW
COP Tj = TOL	1.47	1.45
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	0.92 kW	0.93 kW
Annual energy consumption Qhe	2672 kWh	3618 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	205 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	5.19	3.78
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.59	1.78
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.54	3.05
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	6.91	5.70
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.59	1.78
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.45	1.45
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1489 kWh	2065 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM60VAA(-BS) + E*ST20D-*M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
COP	4.76	2.65
Indoor water flow rate	0.86 m ³ /h	0.54 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	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	4.46	3.33
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.21	2.09
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.21
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.77
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.74
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.21	2.09
Pdh Tj = TOL	4.00 kW	3.90 kW
COP Tj = TOL	1.47	1.45
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	0.92 kW	0.93 kW
Annual energy consumption Qhe	2672 kWh	3618 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	205 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	5.19	3.78
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.59	1.78
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.54	3.05
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	6.91	5.70
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.59	1.78
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.45	1.45
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1489 kWh	2065 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM60VAA(-BS) + E*SD-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
COP	4.76	2.65
Indoor water flow rate	0.86 m ³ /h	0.54 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	41 dB(A)	41 dB(A)
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EN 14825

	Low temperature	Medium temperature
η_s	175 %	130 %
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SCOP	4.46	3.33
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.21	2.09
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.21
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.77
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.74
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.21	2.09
Pdh Tj = TOL	4.00 kW	3.90 kW
COP Tj = TOL	1.47	1.45
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	0.92 kW	0.93 kW
Annual energy consumption Qhe	2672 kWh	3618 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	205 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	5.19	3.78
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.59	1.78
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.54	3.05
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	6.91	5.70
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.59	1.78
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.45	1.45
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1489 kWh	2065 kWh

Model: PUD-SWM60VAA(-BS) + E*SD-*M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
COP	4.76	2.65
Indoor water flow rate	0.86 m ³ /h	0.54 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

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	130 %
Prated	6.00 kW	6.00 kW
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Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.21	2.09
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.21
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.77
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.74
Cdh	0.96	0.97
Pdh Tj = Tbiv	5.30 kW	5.30 kW
COP Tj = Tbiv	3.21	2.09
Pdh Tj = TOL	4.00 kW	3.90 kW
COP Tj = TOL	1.47	1.45
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	0.92 kW	0.93 kW
Annual energy consumption Qhe	2672 kWh	3618 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	205 %	130 %
Prated	6.00 kW	6.00 kW
SCOP	5.19	3.78
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.59	1.78
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.54	3.05
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	6.91	5.70
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.59	1.78
Pdh Tj = TOL	3.90 kW	3.90 kW
COP Tj = TOL	1.45	1.45
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1489 kWh	2065 kWh

Model: PUD-SWM80VAA(-BS) + E*ST20D-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.53	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	218 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	5.53	4.10
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1879 kWh	2554 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM80VAA(-BS) + E*ST20D-*M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.53	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	218 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	5.53	4.10
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1879 kWh	2554 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM80VAA(-BS) + E*SD-M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.53	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	218 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	5.53	4.10
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1879 kWh	2554 kWh

Model: PUD-SWM80VAA(-BS) + E*SD-*M*D

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	4.53	3.35
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.98	0.99

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	218 %	131 %
Prated	8.00 kW	8.00 kW
SCOP	5.53	4.10
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.99	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
WTOL	60 °C	60 °C

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

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1879 kWh	2554 kWh

Model: PUD-SWM80YAA(-BS) + E*ST20D-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.48	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.97	0.98

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	215 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	5.45	4.06
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
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 Q _{he}	1879 kWh	2554 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM80YAA(-BS) + E*ST20D-*M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.48	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.97	0.98

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	215 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	5.45	4.06
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
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 Q _{he}	1879 kWh	2554 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.49
Heating up time	1:47 h:min
Standby power input	36.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	1:49 h:min
Standby power input	33.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUD-SWM80YAA(-BS) + E*SD-M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.48	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.97	0.98

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	215 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	5.45	4.06
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
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	1879 kWh	2554 kWh

Model: PUD-SWM80YAA(-BS) + E*SD-*M*D

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
COP	4.76	2.65
Indoor water flow rate	1.03 m ³ /h	0.65 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	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.48	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.00	2.03
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.19
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.86
Cdh	0.97	0.98

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

Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

EN 14825

	Low temperature	Medium temperature
η_s	215 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	5.45	4.06
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	4.90	3.40
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.12	5.92
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.56	1.82
Pdh Tj = TOL	4.70 kW	4.70 kW
COP Tj = TOL	1.44	1.44
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	1879 kWh	2554 kWh