

Summary of	Ecodan Power Inverter 6/8-200D AA	Reg. No.	037-0019-20		
Summary of	Leodan Fower inverter 0/0-2000 AA	iteg. No.	037-0019-20		
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	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

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.00 kW	5.00 kW	
El input	1.05 kW	1.89 kW	
СОР	4.76	2.65	
Indoor water flow rate	0.86 m³/h	0.54 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	

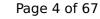
### Average Climate



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

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

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-	,
3.20 kW	3.10 kW
7.80	6.74
0.96	0.97
5.30 kW	5.30 kW
3.21	2.09
4.00 kW	3.90 kW
1.47	1.45
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	o w
electricity	electricity
0.92 kW	0.93 kW
2672 kWh	3618 kWh
	7.80  0.96  5.30 kW  3.21  4.00 kW  1.47  60 °C  15 W  15 W  0 W  electricity  0.92 kW

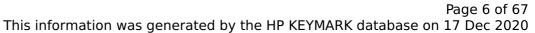
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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





Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o 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

### Domestic Hot Water (DHW)

### **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	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	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	162 %	
СОР	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	



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

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
СОР	4.76	2.65
Indoor water flow rate	0.86 m³/h	0.54 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

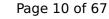
### **Average Climate**



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

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

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-	,
3.20 kW	3.10 kW
7.80	6.74
0.96	0.97
5.30 kW	5.30 kW
3.21	2.09
4.00 kW	3.90 kW
1.47	1.45
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	o w
electricity	electricity
0.92 kW	0.93 kW
2672 kWh	3618 kWh
	7.80  0.96  5.30 kW  3.21  4.00 kW  1.47  60 °C  15 W  15 W  0 W  electricity  0.92 kW

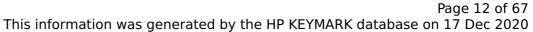
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



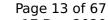


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1489 kWh	2065 kWh

### Domestic Hot Water (DHW)

### Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	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





EN 16147	
Declared load profile	L
Efficiency ηDHW	162 %
СОР	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



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

General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
СОР	4.76	2.65
Indoor water flow rate	0.86 m³/h	0.54 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

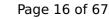


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o 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

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
$\eta_{s}$	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



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Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o 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

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.05 kW	1.89 kW
СОР	4.76	2.65
Indoor water flow rate	0.86 m³/h	0.54 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

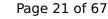


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o 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

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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



# $$\operatorname{\textit{Page}}\xspace$ 23 of 67 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o 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

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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

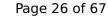


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

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3.20 kW	3.10 kW
8.00	6.89
0.96	0.97
7.10 kW	6.80 kW
3.00	2.04
4.80 kW	4.70 kW
1.45	1.44
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	o w
electricity	electricity
1.28 kW	1.55 kW
3529 kWh	4814 kWh
	8.00  0.96  7.10 kW  3.00  4.80 kW  1.45  60 °C  15 W  15 W  0 W  electricity  1.28 kW

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
$\eta_{s}$	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



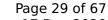


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Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1879 kWh	2554 kWh

### Domestic Hot Water (DHW)

### Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	148 %
СОР	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





EN 16147	
Declared load profile	L
Efficiency ηDHW	162 %
СОР	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



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

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.26 kW	2.26 kW
СОР	4.76	2.65
Indoor water flow rate	1.03 m³/h	0.65 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**

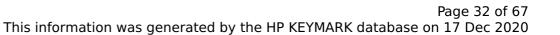


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

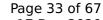
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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

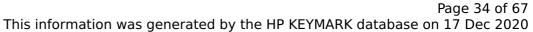
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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





Poff	15 W	15 W
РТО	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

1879 kWh

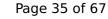
2554 kWh

### Domestic Hot Water (DHW)

Annual energy consumption Qhe

### **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	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	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	162 %	
СОР	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	



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

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	6.00 kW	6.00 kW		
El input	1.26 kW	2.26 kW		
СОР	4.76	2.65		
Indoor water flow rate	1.03 m³/h	0.65 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

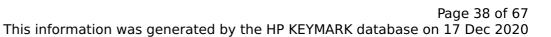


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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

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

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3.20 kW	3.10 kW
8.00	6.89
0.96	0.97
7.10 kW	6.80 kW
3.00	2.04
4.80 kW	4.70 kW
1.45	1.44
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
o w	0 W
electricity	electricity
1.28 kW	1.55 kW
3529 kWh	4814 kWh
	8.00  0.96  7.10 kW  3.00  4.80 kW  1.45  60 °C  15 W  15 W  0 W  electricity  1.28 kW

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
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\xspace$ 40 of 67 This information was generated by the HP KEYMARK database on 17 Dec 2020

Poff	15 W	15 W
РТО	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

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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

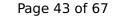


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

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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
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
	1	

### Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

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)

electricity

1.28 kW

3529 kWh

electricity

1.55 kW

4814 kWh





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



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Poff	15 W	15 W
РТО	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

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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$  47 of 67 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
$\eta_{s}$	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

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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
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	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



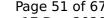


<u> </u>	•	
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1879 kWh	2554 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	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	





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	162 %	
СОР	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	

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

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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

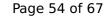


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

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

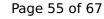
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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



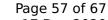


This information was generated by the HP KEYMARK database on 17 Dec 2020 Poff 22 W 22 W PTO 22 W 22 W **PSB** 22 W 22 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW 1879 kWh Annual energy consumption Qhe 2554 kWh

### Domestic Hot Water (DHW)

## **Average Climate**

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	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	





EN 16147		
Declared load profile	L	
Efficiency ηDHW	162 %	
СОР	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	



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

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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



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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	56 dB(A)	56 dB(A)

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

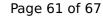
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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.00	6.89
Cdh	0.94	0.95
Pdh Tj = Tbiv	7.10 kW	6.80 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL	4.80 kW	4.70 kW
COP Tj = TOL	1.45	1.44
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.28 kW	1.55 kW
Annual energy consumption Qhe	3529 kWh	4814 kWh

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
$\eta_{s}$	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



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Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o 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		

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.00 kW	6.00 kW	
El input	1.26 kW	2.26 kW	
СОР	4.76	2.65	
Indoor water flow rate	1.03 m³/h	0.65 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

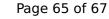


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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

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

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3.20 kW	3.10 kW
8.00	6.89
0.94	0.95
7.10 kW	6.80 kW
3.00	2.04
4.80 kW	4.70 kW
1.45	1.44
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	0 W
electricity	electricity
1.28 kW	1.55 kW
3529 kWh	4814 kWh
	8.00  0.94  7.10 kW  3.00  4.80 kW  1.45  60 °C  22 W  22 W  0 W  electricity  1.28 kW

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
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Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
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COP Tj = +2°C	3.56	1.82
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
$COP Tj = +7^{\circ}C$	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
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