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

Summary of	Ecodan Zubadan 6/8-200D AA	Reg. No.	037-0021-20
Certificate Holder	Certificate Holder		
Name	Mitsubishi Electric Air Conditioning Systems Euro	pe 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		
Subtype title	Ecodan Zubadan 6/8-200D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.4 kg		
Certification Date	06.10.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



# Model: PUD-SHWM60VAA(-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	1.00 kW	1.89 kW	
СОР	4.99	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
$\eta_{s}$	178 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	4.52	3.41
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.29	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.56	3.28
Cdh	0.98	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.91
Cdh	0.98	0.99

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3.20 kW	3.10 kW
7.80	6.89
0.96	0.97
6.00 kW	6.00 kW
3.21	2.02
4.40 kW	4.40 kW
1.42	1.42
60 °C	60 °C
15 W	15 W
15 W	15 W
15 W	15 W
0 W	o w
electricity	electricity
0.00 kW	0.00 kW
2649 kWh	3535 kWh
	7.80  0.96  6.00 kW  3.21  4.40 kW  1.42  60 °C  15 W  15 W  0 W  electricity  0.00 kW

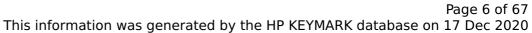
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	220 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	5.57	4.06
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.80	1.91
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.89	3.28
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.46	6.16
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.80	1.91
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1385 kWh	1919 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-SHWM60VAA(-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	1.00 kW	1.89 kW	
СОР	4.99	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	

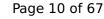
## **Average Climate**



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
$\eta_{s}$	178 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	4.52	3.41
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.29	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.56	3.28
Cdh	0.98	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.91
Cdh	0.98	0.99

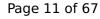
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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	7.80	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.21	2.02
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2649 kWh	3535 kWh

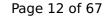
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	220 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	5.57	4.06
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.80	1.91
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.89	3.28
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.46	6.16
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.80	1.91
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
WTOL	60 °C	60 °C





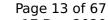
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Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1385 kWh	1919 kWh

## 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-SHWM60VAA(-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	1.00 kW	1.89 kW	
СОР	4.99	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	
$\eta_{s}$	178 %	134 %	
Prated	6.00 kW	6.00 kW	
SCOP	4.52	3.41	
Tbiv	-10 °C	-10 °C	
TOL	-28 °C	-28 °C	
Pdh Tj = -7°C	5.30 kW	5.30 kW	
COP Tj = -7°C	3.29	2.14	
Cdh	0.99	0.99	
Pdh Tj = +2°C	4.70 kW	4.30 kW	
COP Tj = +2°C	4.56	3.28	
Cdh	0.98	0.99	
Pdh Tj = +7°C	5.10 kW	5.30 kW	
COP Tj = +7°C	5.67	4.91	
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	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.21	2.02
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2649 kWh	3535 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
$\eta_{s}$	220 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	5.57	4.06
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.80	1.91
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
COP Tj = +7°C	4.89	3.28
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.46	6.16
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.80	1.91
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
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	1385 kWh	1919 kWh



# Model: PUD-SHWM60VAA(-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	1.00 kW	1.89 kW	
СОР	4.99	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

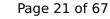


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	178 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	4.52	3.41
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	3.29	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.56	3.28
Cdh	0.98	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	5.67	4.91
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	6.89
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.21	2.02
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2649 kWh	3535 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
η <sub>s</sub>	220 %	134 %
Prated	6.00 kW	6.00 kW
SCOP	5.57	4.06
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.80	1.91
Cdh	0.99	1.00
Pdh Tj = +7°C	4.40 kW	3.90 kW
$COP Tj = +7^{\circ}C$	4.89	3.28
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.46	6.16
Cdh	0.98	0.98
Pdh Tj = Tbiv	6.00 kW	6.00 kW
COP Tj = Tbiv	3.80	1.91
Pdh Tj = TOL	4.40 kW	4.40 kW
COP Tj = TOL	1.42	1.42
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	1385 kWh	1919 kWh

# Model: PUD-SHWM80VAA(-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	1.19 kW	2.26 kW
СОР	5.03	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**

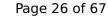


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	181 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	4.60	3.45
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.96	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 kWh

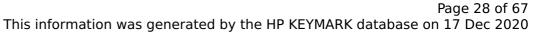
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	





#### EN 14825

	Low temperature	Medium temperature
η <sub>s</sub>	225 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	5.70	4.22
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
$COP Tj = +7^{\circ}C$	5.05	3.51
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW

1820 kWh

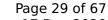
2479 kWh

#### 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-SHWM80VAA(-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	1.19 kW	2.26 kW	
СОР	5.03	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**

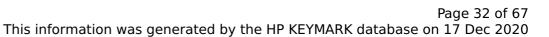


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	181 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	4.60	3.45
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.98	0.99

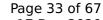
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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.96	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 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
η <sub>s</sub>	225 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	5.70	4.22
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
$COP Tj = +7^{\circ}C$	5.05	3.51
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
WTOL	60 °C	60 °C



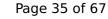


Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1820 kWh	2479 kWh

## 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-SHWM80VAA(-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	1.19 kW	2.26 kW
СОР	5.03	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

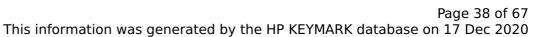


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	181 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	4.60	3.45
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.96	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 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
η <sub>s</sub>	225 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	5.70	4.22
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
$COP Tj = +7^{\circ}C$	5.05	3.51
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	1820 kWh	2479 kWh

## Model: PUD-SHWM80VAA(-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	1.19 kW	2.26 kW	
СОР	5.03	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
$\eta_{s}$	181 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	4.60	3.45
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	1.00
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.99	0.99
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.98	0.99

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.96	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 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
η <sub>s</sub>	225 %	135 %
Prated	8.00 kW	8.00 kW
SCOP	5.70	4.22
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
$COP Tj = +7^{\circ}C$	5.05	3.51
Cdh	0.98	0.99
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.98	0.98
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	1820 kWh	2479 kWh

## Model: PUD-SHWM80YAA(-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	1.19 kW	2.26 kW	
СОР	5.03	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
$\eta_{s}$	179 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	4.55	3.42
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.97	0.98

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	Teracea by the fill realing	
Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.94	0.95
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 kWh

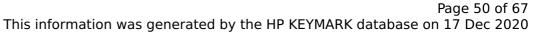
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	222 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	5.62	4.17
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	5.05	3.51
Cdh	0.98	0.98
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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

0.00 kW

1820 kWh

0.00 kW

2479 kWh

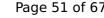
### Domestic Hot Water (DHW)

### **Average Climate**

Supplementary Heater: PSUP

Annual energy consumption Qhe

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-SHWM80YAA(-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	1.19 kW	2.26 kW
СОР	5.03	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**

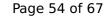


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	4.55	3.42
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.97	0.98

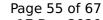
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-	
3.20 kW	3.10 kW
8.21	7.05
0.94	0.95
8.00 kW	8.00 kW
3.09	1.97
5.30 kW	5.30 kW
1.41	1.41
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
0 W	o w
electricity	electricity
0.00 kW	0.00 kW
3500 kWh	4695 kWh
	8.21  0.94  8.00 kW  3.09  5.30 kW  1.41  60 °C  22 W  22 W  0 W  electricity  0.00 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
$\eta_{s}$	222 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	5.62	4.17
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	5.05	3.51
Cdh	0.98	0.98
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
WTOL	60 °C	60 °C



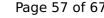


Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1820 kWh	2479 kWh

### 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 I





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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-SHWM80YAA(-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	1.19 kW	2.26 kW
СОР	5.03	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$  59 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
$\eta_{s}$	179 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	4.55	3.42
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.97	0.98

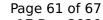
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3.20 kW	3.10 kW		
8.21	7.05		
0.94	0.95		
8.00 kW	8.00 kW		
3.09	1.97		
5.30 kW	5.30 kW		
1.41	1.41		
60 °C	60 °C		
22 W	22 W		
22 W	22 W		
22 W	22 W		
0 W	o w		
electricity	electricity		
0.00 kW	0.00 kW		
3500 kWh	4695 kWh		
	8.21  0.94  8.00 kW  3.09  5.30 kW  1.41  60 °C  22 W  22 W  0 W  electricity  0.00 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
$\eta_{s}$	222 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	5.62	4.17
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	5.05	3.51
Cdh	0.98	0.98
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
WTOL	60 °C	60 °C



# $$\operatorname{\textit{Page}}\xspace$ 62 of 67 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1820 kWh	2479 kWh

## Model: PUD-SHWM80YAA(-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	1.19 kW	2.26 kW
СОР	5.03	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

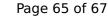


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	4.55	3.42
Tbiv	-10 °C	-10 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	3.11	2.14
Cdh	0.99	0.99
Pdh Tj = +2°C	4.70 kW	4.30 kW
COP Tj = +2°C	4.52	3.26
Cdh	0.98	0.98
Pdh Tj = +7°C	5.10 kW	5.30 kW
COP Tj = +7°C	6.00	4.91
Cdh	0.97	0.98

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Pdh Tj = 12°C	3.20 kW	3.10 kW
COP Tj = 12°C	8.21	7.05
Cdh	0.94	0.95
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.09	1.97
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3500 kWh	4695 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
$\eta_{s}$	222 %	134 %
Prated	8.00 kW	8.00 kW
SCOP	5.62	4.17
Tbiv	2 °C	2 °C
TOL	-28 °C	-28 °C
Pdh Tj = +2°C	8.00 kW	8.00 kW
COP Tj = +2°C	3.74	1.88
Cdh	0.99	1.00
Pdh Tj = +7°C	5.10 kW	5.20 kW
COP Tj = +7°C	5.05	3.51
Cdh	0.98	0.98
Pdh Tj = 12°C	4.70 kW	4.50 kW
COP Tj = 12°C	7.34	6.08
Cdh	0.97	0.97
Pdh Tj = Tbiv	8.00 kW	8.00 kW
COP Tj = Tbiv	3.74	1.88
Pdh Tj = TOL	5.30 kW	5.30 kW
COP Tj = TOL	1.41	1.41
WTOL	60 °C	60 °C



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

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	1820 kWh	2479 kWh