

Page 1 of 133

#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### **Login**

Summary of	ESTIA HWT-801/1101	Reg. No.	011-1W0468	
Certificate Holder				
Name	TOSHIBA AIR CONDITIONING	TOSHIBA AIR CONDITIONING		
Address	Porsham Close, Belliver Industrial Estate	Porsham Close, Belliver Industrial Estate Zip PL6 7DB		
City	Plymouth	Country	United Kingdom	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Subtype title	ESTIA HWT-801/1101			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.25 kg			
Certification Date	21.12.2021			
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 9 (2021-03)			



# Model: HWT-801HW-E / HWT-1101XWHM3W-E

Configure model		
Model name	HWT-801HW-E / HWT-1101XWHM3W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





	ted by the Hi KETI-W	TR database on 10 Mai 2022
$COPTj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

# Model: HWT-801HW-E / HWT-1101XWHT6W-E

Configure model		
Model name	HWT-801HW-E / HWT-1101XWHT6W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

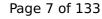
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825	
Low temperature	Medium temperature
182 %	142 %
8.18 kW	8.12 kW
4.63	3.63
-7 °C	-7 °C
-10 °C	-10 °C
7.2 kW	7.3 kW
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C





This information was genera		
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.7 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2		
Low temperature Medium tempe		Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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



# Model: HWT-801HW-E / HWT-1101XWHT9W-E

Configure model		
Model name HWT-801HW-E / HWT-1101XWHT9W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

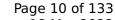
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera		
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Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
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WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2		
Low temperature Medium temp		Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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



# Model: HWT-801HRW-E / HWT-1101XWHM3W-E

Configure model		
Model name HWT-801HRW-E / HWT-1101XWHM3W-E		
Application	Heating (medium temp)	
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

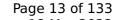
EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	40 dB(A)	40 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	182 %	142 %
Prated	8.18 kW	8.12 kW
SCOP	4.63	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.2 kW	7.3 kW





This information was genera	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

# Model: HWT-801HRW-E / HWT-1101XWHT6W-E

Configure model		
Model name HWT-801HRW-E / HWT-1101XWHT6W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

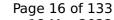
EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	40 dB(A)	40 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was generated by the HP KEYMARK database on 18 M		
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

# Model: HWT-801HRW-E / HWT-1101XWHT9W-E

Configure model		
Model name HWT-801HRW-E / HWT-1101XWHT9W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data	
Power supply 1x230V 50Hz	

### **Average Climate**

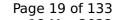
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825	
Low temperature	Medium temperature
182 %	142 %
8.18 kW	8.12 kW
4.63	3.63
-7 °C	-7 °C
-10 °C	-10 °C
7.2 kW	7.3 kW
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C





This information was generated by the HP KEYMARK database on 18 M		
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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



# Model: HWT-1101HW-E / HWT-1101XWHM3W-E

Configure model		
Model name	HWT-1101HW-E / HWT-1101XWHM3W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	179 %	142 %	
Prated	8.93 kW	8.27 kW	
SCOP	4.55	3.62	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.9 kW	7.3 kW	





				<b>J</b>	
This information was	generated by	the HP KEYMARK	database on	18 Mar	2022

This information was genera	iced by the in Reinna	
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
$COPTj = +2^{\circ}C$	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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



# Model: HWT-1101HW-E / HWT-1101XWHT6W-E

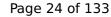
Configure model		
Model name	HWT-1101HW-E / HWT-1101XWHT6W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

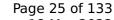
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





This information was genera	iced by the in Reinna	
COP Tj = -7°C	2.59	2.12
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$COPTj = +2^{\circ}C$	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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



# Model: HWT-1101HW-E / HWT-1101XWHT9W-E

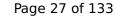
Configure model		
Model name	HWT-1101HW-E / HWT-1101XWHT9W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

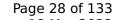
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





This information was genera	iced by the in Reinna	
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
$COPTj = +2^{\circ}C$	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

# Model: HWT-1101HRW-E / HWT-1101XWHM3W-E

Configure model		
Model name HWT-1101HRW-E / HWT-1101XWHM3W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

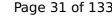
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	179 %	142 %	
Prated	8.93 kW	8.27 kW	
SCOP	4.55	3.62	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = $-7^{\circ}$ C	7.9 kW	7.3 kW	





This information was genera		
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3.1 kW	3 kW
COP Tj = +7°C	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





# $$\operatorname{\textit{Page}}\ 31\ \text{of}\ 133$$ This information was generated by the HP KEYMARK database on 18 Mar 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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



# Model: HWT-1101HRW-E / HWT-1101XWHT6W-E

Configure model		
Model name HWT-1101HRW-E / HWT-1101XWHT6W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

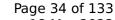
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





	ted by the Hi KETMAI	TR database on 10 Mai 2022
$COPTj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COP Tj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	o w	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

EN 14511-2			
Low temperature Medium temperature			
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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



# Model: HWT-1101HRW-E / HWT-1101XWHT9W-E

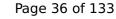
Configure model		
Model name	HWT-1101HRW-E / HWT-1101XWHT9W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

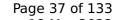
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.90 kW	7.30 kW





This information was genera	ited by the Hi KETMAI	N database on 10 Mai 2022
$COP Tj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.50	3.58
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.40	7.00
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.30 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.800	0.900
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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



# Model: HWT-801HW-E / HWT-1101F21SM3W-E

Configure model		
Model name	HWT-801HW-E / HWT-1101F21SM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

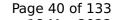
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7$ °C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	o w	o w





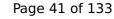
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-801HW-E / HWT-1101F21MM3W-E

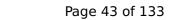
Configure model		
Model name HWT-801HW-E / HWT-1101F21MM3W-E		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera		
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.7 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w



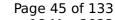
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-801HW-E / HWT-1101F21ST6W-E

Configure model		
Model name	HWT-801HW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

Low temperature  182 %  8.18 kW	Medium temperature 142 %
8 18 kW	
0.10 KW	8.12 kW
4.63	3.63
-7 °C	-7 °C
-10 °C	-10 °C
7.2 kW	7.3 kW
	-7 °C -10 °C





	ced by the Hi KETHA	TR database on 10 Mai 2022
$COPTj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	o w





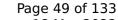
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-801HW-E / HWT-1101F21MT6W-E

Configure model		
Model name HWT-801HW-E / HWT-1101F21MT6W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

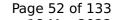
EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	



Page 51 of 133

#### This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was genera		
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W
	·	





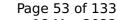
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-801HW-E / HWT-1101F21ST9W-E

Configure model		
Model name	HWT-801HW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera		
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.7 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





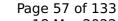
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-801HW-E / HWT-1101F21MT9W-E

Configure model		
Model name HWT-801HW-E / HWT-1101F21MT9W-E		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera		
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.7 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





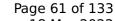
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



### Model: HWT-801HRW-E / HWT-1101F21SM3W-E

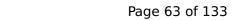
Configure model		
Model name	HWT-801HRW-E / HWT-1101F21SM3W-E	
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

### **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





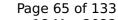
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-801HRW-E / HWT-1101F21MM3W-E

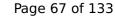
Configure model		
Model name HWT-801HRW-E / HWT-1101F21MM3W-E		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





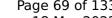
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  69 of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-801HRW-E / HWT-1101F21ST6W-E

Configure model			
Model name	HWT-801HRW-E / HWT-1101F21ST6W-E		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

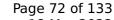
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





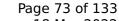
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-801HRW-E / HWT-1101F21MT6W-E

Configure model		
Model name	HWT-801HRW-E / HWT-1101F21MT6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





	ced by the Hi KETHA	TR database on 10 Mai 2022
$COPTj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	o w





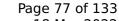
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-801HRW-E / HWT-1101F21ST9W-E

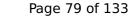
Configure model		
Model name	HWT-801HRW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

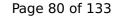
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
COP Tj = +2°C	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





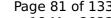
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8 kW	9.96 kW	
El input	1.54 kW	3.47 kW	
СОР	5.19	2.87	

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

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  81 of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-801HRW-E / HWT-1101F21MT9W-E

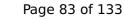
Configure model		
Model name HWT-801HRW-E / HWT-1101F21MT9W-E		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

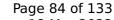
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
182 %	142 %	
8.18 kW	8.12 kW	
4.63	3.63	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.2 kW	7.3 kW	
	Low temperature  182 %  8.18 kW  4.63  -7 °C  -10 °C	





This information was genera		
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.7 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
COP Tj = +7°C	6.3	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.2 kW	7.3 kW
COP Tj = Tbiv	2.72	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





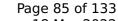
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
СОР	5.19	2.87

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-1101HW-E / HWT-1101F21SM3W-E

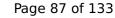
Configure model		
Model name HWT-1101HW-E / HWT-1101F21SM3W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.9 kW	7.3 kW





This information was genera	iced by the in Reinna	
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





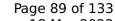
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.23 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-1101HW-E / HWT-1101F21MM3W-E

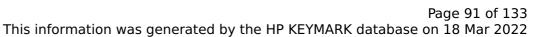
Configure model		
Model name	HWT-1101HW-E / HWT-1101F21MM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





This information was genera		
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3.1 kW	3 kW
$COP Tj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W
	·	





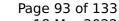
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# **Model: HWT-1101HW-E / HWT-1101F21ST6W-E**

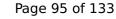
Configure model		
Model name	HWT-1101HW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

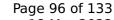
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
Low temperature	Medium temperature	
179 %	142 %	
8.93 kW	8.27 kW	
4.55	3.62	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.9 kW	7.3 kW	
-	Low temperature  179 %  8.93 kW  4.55  -7 °C  -10 °C	





	ted by the Hi KETMAI	IN database on 10 Mai 2022
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





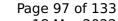
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-1101HW-E / HWT-1101F21MT6W-E

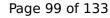
Configure model		
Model name HWT-1101HW-E / HWT-1101F21MT6W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

## **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.9 kW	7.3 kW





	ted by the Hi KETMAI	NK database on 10 Mai 2022
$COPTj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COP Tj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	o w	o w





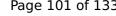
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 101$$ of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# **Model: HWT-1101HW-E / HWT-1101F21ST9W-E**

Configure model		
Model name	HWT-1101HW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## **Average Climate**

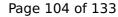
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
179 %	142 %	
8.93 kW	8.27 kW	
4.55	3.62	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.9 kW	7.3 kW	
	179 %  8.93 kW  4.55  -7 °C  -10 °C	





This information was genera		
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3.1 kW	3 kW
COP Tj = +7°C	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





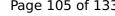
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 105$$ of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-1101HW-E / HWT-1101F21MT9W-E

Configure model		
Model name	HWT-1101HW-E / HWT-1101F21MT9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

## **Average Climate**

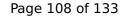
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
179 %	142 %	
8.93 kW	8.27 kW	
4.55	3.62	
-7 °C	-7 °C	
-10 °C	-10 °C	
7.9 kW	7.3 kW	
	Low temperature  179 %  8.93 kW  4.55  -7 °C  -10 °C	





This information was genera	,	
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.9 kW	4.5 kW
$COPTj = +2^{\circ}C$	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
РСК	0 W	0 W





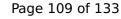
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	3.12
Heating up time	1:05 h:min
Standby power input	45.0 W
Reference hot water temperature	49.7 °C
Mixed water at 40°C	220



# Model: HWT-1101HRW-E / HWT-1101F21SM3W-E

Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21SM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# **Average Climate**

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.9 kW	7.3 kW





This information was genera	ited by the III REITHA	TR database on 10 mar 202
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COP Tj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W



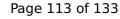
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	3.12
Heating up time	1:05 h:min
Standby power input	45.0 W
Reference hot water temperature	49.7 °C
Mixed water at 40°C	220



# Model: HWT-1101HRW-E / HWT-1101F21MM3W-E

Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21MM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### **Average Climate**

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
		'



Page 115 of 133

This information was genera		
Pdh Tj = -7°C	7.9 kW	7.3 kW
$COPTj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	3.1 kW	3 kW
$COP Tj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
	<u> </u>	



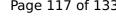
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11 kW	10.17 kW	
El input	2.39 kW	3.62 kW	
СОР	4.6	2.81	

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

# Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 117$$ of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-1101HRW-E / HWT-1101F21ST6W-E

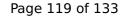
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# **Average Climate**

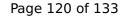
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	42 dB(A)	42 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





This information was genera	iced by the in Reinna	
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w





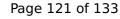
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	3.12
Heating up time	1:05 h:min
Standby power input	45.0 W
Reference hot water temperature	49.7 °C
Mixed water at 40°C	220



# Model: HWT-1101HRW-E / HWT-1101F21MT6W-E

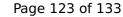
Configure model		
Model name HWT-1101HRW-E / HWT-1101F21MT6W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.9 kW	7.3 kW





This information was genera		
$COPTj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	4.9 kW	4.5 kW
COP Tj = +2°C	4.5	3.58
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3.1 kW	3 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.9 kW	7.3 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w
	•	



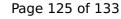
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	

# Model: HWT-1101HRW-E / HWT-1101F21ST9W-E

Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.90 kW	7.30 kW





Tins information was genera	· · · · · · · · · · · · · · · · · · ·	
$COP Tj = -7^{\circ}C$	2.59	2.12
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	4.90 kW	4.50 kW
$COPTj = +2^{\circ}C$	4.50	3.58
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.40	7.00
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.30 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.800	0.900
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	o w
	•	



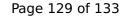
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	



# Model: HWT-1101HRW-E / HWT-1101F21MT9W-E

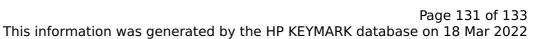
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21MT9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	7.90 kW	7.30 kW





This information was genera	acca by the in Reimin	in database on 10 mai 2022
COP Tj = -7°C	2.59	2.12
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.50	3.58
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = +7°C	3.10 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.23	4.75
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.40	7.00
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.30 kW
COP Tj = Tbiv	2.59	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.800	0.900
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	49 W	49 W
PSB	7 W	7 W
PCK	0 W	0 W



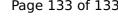
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.57 kW
Annual energy consumption Qhe	4054 kWh	4728 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11 kW	10.17 kW
El input	2.39 kW	3.62 kW
СОР	4.6	2.81

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

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 133$$  of 133 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.12	
Heating up time	1:05 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.7 °C	
Mixed water at 40°C	220	