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#### This information was generated by the HP KEYMARK database on 6 Jan 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	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	





	racea by the fir RETIN	ARK database on 6 jan 2022
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	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			
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	





	racea by the fir RETIN	ARK database on 6 jan 2022
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Cdh Tj = +7 °C	0.9	0.92
Pdh Tj = 12°C	2.3 kW	2.3 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	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
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

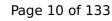
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

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	





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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
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Cdh Tj = +7 °C	0.9	0.92
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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 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

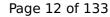
Configure model		
Model name HWT-801HRW-E / HWT-1101XWHM3W-E		
Application Heating (medium temp)		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Average Climate

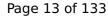
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
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	





		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	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
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			
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

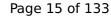
Configure model		
Model name HWT-801HRW-E / HWT-1101XWHT6W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Average Climate

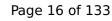
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

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	





		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	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
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
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

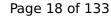
Configure model		
Model name HWT-801HRW-E / HWT-1101XWHT9W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

### Average Climate

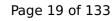
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

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	





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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 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

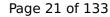
Configure model		
Model name HWT-1101HW-E / HWT-1101XWHM3W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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





This information was gene	rated by the Hi KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	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°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
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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
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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

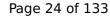
Configure model		
Model name HWT-1101HW-E / HWT-1101XWHT6W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

### Average Climate

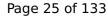
EN 12102-1				
Low temperature Medium temperature				
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Sound power level outdoor	65 dB(A)	65 dB(A)		

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





ms mornation was gene	racea by the fill RETIN	Title database on o jan 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
РСК	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

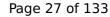
Configure model		
Model name	HWT-1101HW-E / HWT-1101XWHT9W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data	
Power supply 1x230V 50Hz	

### Average Climate

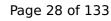
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
Low temperature	Medium temperature	
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	





ms mornation was gene	racea by the fill RETIN	Title database on o jan 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
РСК	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

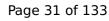
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

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





ms mornation was gene	racea by the fill RETIN	Title database on o jan 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
РСК	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-1101XWHT6W-E

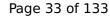
Configure model		
Model name HWT-1101HRW-E / HWT-1101XWHT6W-E		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	
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	





····· ··· ··· ··· ··· ··· ··· ··· ···		Title database on o jan 2021
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	0 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

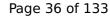
Configure model		
Model name	HWT-1101HRW-E / HWT-1101XWHT9W-E	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

### Average Climate

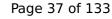
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.63	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 gene	rated by the in italia	Title database on o jan 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
$COPTj = +2^{\circ}C$	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	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

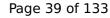
Configure model		
Model name HWT-801HW-E / HWT-1101F21SM3W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional) n/a		

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
$\eta_{s}$	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
	1	1





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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		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

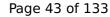
Configure model		
Model name HWT-801HW-E / HWT-1101F21MM3W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	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)



# $$\operatorname{Page}$$ 45 of 133 This information was generated by the HP KEYMARK database on 6 Jan 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-801HW-E / HWT-1101F21ST6W-E

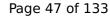
Configure model		
Model name	HWT-801HW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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)

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	





		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	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

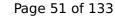
Configure model		
Model name HWT-801HW-E / HWT-1101F21MT6W-E		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

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	





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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)



# $$\operatorname{\textit{Page}}\xspace$ 53 of 133 This information was generated by the HP KEYMARK database on 6 Jan 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-801HW-E / HWT-1101F21ST9W-E

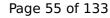
Configure model		
Model name	HWT-801HW-E / HWT-1101F21ST9W-E	
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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)



# $$\operatorname{Page}\ 57$$ of 133 This information was generated by the HP KEYMARK database on 6 Jan 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-801HW-E / HWT-1101F21MT9W-E

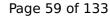
Configure model		
Model name HWT-801HW-E / HWT-1101F21MT9W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





The three general state of the	· · · · · · · · · · · · · · · · · · ·	Title database on o jan 2022
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
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COPTj = +7^{\circ}C$	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	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		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**

**CEN** heat pump

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
$\eta_{s}$	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





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
PCK	0 W	o w



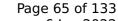
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

# 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-1101F21MM3W-E

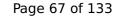
Configure model		
Model name HWT-801HRW-E / HWT-1101F21MM3W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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 I



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

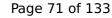
Configure model			
Model name	HWT-801HRW-E / HWT-1101F21ST6W-E		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

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	





ins mondation has gone		Thirt database on o jun 2021
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	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)



# $$\operatorname{Page}\ 73$$ of 133 This information was generated by the HP KEYMARK database on 6 Jan 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-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	





# $$\operatorname{\textit{Page}}\xspace$ 75 of 133 This information was generated by the HP KEYMARK database on 6 Jan 2022

		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	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

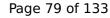
Configure model		
Model name	HWT-801HRW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





		THE GALABASE OF O July 2022
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
$COPTj = +2^{\circ}C$	4.56	3.6
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = $+7^{\circ}$ C	3 kW	3 kW
$COP Tj = +7^{\circ}C$	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



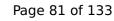
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

### 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-1101F21MT9W-E

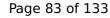
Configure model		
Model name   HWT-801HRW-E / HWT-1101F21MT9W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	nate Zone n/a	
Reversibility Yes		
Cooling mode application (optional)	n/a	

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	





	racea by the fir KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	2.72	2.12
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	4.7 kW	4.6 kW
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
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	
passed	
passed	
passed	
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

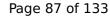
Configure model		
Model name HWT-1101HW-E / HWT-1101F21SM3W-E		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

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 gene	rated by the Hi KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	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°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

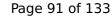
Configure model		
Model name	HWT-1101HW-E / HWT-1101F21MM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	
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 gene	rated by the Hi KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	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°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)



# $$\operatorname{Page}\ 93$$ of 133 This information was generated by the HP KEYMARK database on 6 Jan 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-1101F21ST6W-E**

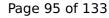
Configure model		
Model name	HWT-1101HW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	





	racea by the fir KETM	ARK database on 6 Jan 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
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
РСК	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

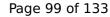
Configure model		
Model name HWT-1101HW-E / HWT-1101F21MT6W-E		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

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	
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	





ms mornation was gene	racea by the fill RETIN	Title database on o jan 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
РСК	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-1101F21ST9W-E**

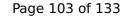
Configure model		
Model name HWT-1101HW-E / HWT-1101F21ST9W-E		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

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
$\eta_{s}$	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 gene	rated by the Hi KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	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°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 6 Jan 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

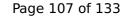
Configure model		
Model name	HWT-1101HW-E / HWT-1101F21MT9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

### **Average Climate**

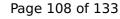
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

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	





<b>3</b>	•	ANN database on o jan 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 = $+7$ °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	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)



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





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	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)



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

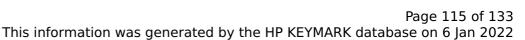
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21MM3W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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)	

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





Pdh Tj = -7°C	7.9 kW	7.3 kW
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
PTO	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-1101F21ST6W-E

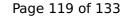
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21ST6W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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 = $-7^{\circ}$ C	7.9 kW	7.3 kW





This information was gene	rated by the HF KLTM	ARK database on 6 jan 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
$COPTj = +7^{\circ}C$	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

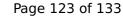
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21MT6W-E	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone	n/a	
Reversibility Yes		
Cooling mode application (optional)	n/a	

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	
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 gene	rated by the Hr KLIM	ARK database on 6 Jan 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
РСК	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

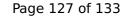
Configure model		
Model name	HWT-1101HRW-E / HWT-1101F21ST9W-E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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	4.63	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 gene	rated by the Hi KETM	ARK database on 6 Jan 2022
$COP Tj = -7^{\circ}C$	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°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-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	4.63	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.9 kW	7.3 kW





<b>5</b>	•	ANN database on o jan 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 = $+7$ °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
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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	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)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
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