Login

Summary of	ESTIA HWT-801/1101	Reg. No.	011-1W0468
Certificate Holder			
Name	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**
η_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

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
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	1.42 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
COP	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		
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η_s	182 %	142 %
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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

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	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

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η_s	182 %	142 %
Prated	8.18 kW	8.12 kW
SCOP	4.63	3.63
Tbiv	-7 °C	-7 °C
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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

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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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Cdh Tj = +12 °C	0.9	0.9
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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

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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
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Defrost test	passed
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Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
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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
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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	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

Heating

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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)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	142 %
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SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
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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°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
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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
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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
COP	4.6	2.81

EN 14511-4	
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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

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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
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	1.23 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
COP	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**
η_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

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
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	1.23 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
COP	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**
η_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

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
COP Tj = +7°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
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	1.23 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
COP	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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.42 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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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	1.23 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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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
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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
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
COP	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)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
COP Tj = +7°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
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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l

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**
η_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

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
COP Tj = +7°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
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
COP	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)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	130 %
COP	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 l