Subtype ESTIA HWT-801/1101H8 AIO s2	
Certificate Holder	TOSHIBA AIR CONDITIONING
Address	Porsham Close, Belliver Industrial Estate
ZIP	PL6 7DB
City	Plymouth
Country	GB
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ESTIA HWT-801/1101H8 AIO s2
Registration number	011-1W0613
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.3 kg
Certification Date	06.06.2023
Testing basis	HP KEYMARK certification scheme rules V11

Model HWT-801H8W-E / HWT-1102S21SM3W-E	
Model name	HWT-801H8W-E / HWT-1102S21SM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21SM6W-E	
Model name	HWT-801H8W-E / HWT-1102S21SM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21ST6W-E	
Model name	HWT-801H8W-E / HWT-1102S21ST6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21ST9W-E	
Model name	HWT-801H8W-E / HWT-1102S21ST9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21MM3W-E	
Model name	HWT-801H8W-E / HWT-1102S21MM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21MM6W-E	
Model name	HWT-801H8W-E / HWT-1102S21MM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21MT6W-E	
Model name	HWT-801H8W-E / HWT-1102S21MT6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8W-E / HWT-1102S21MT9W-E	
Model name	HWT-801H8W-E / HWT-1102S21MT9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21SM3W-E	
Model name	HWT-801H8RW-E / HWT-1102S21SM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21SM6W-E	
Model name	HWT-801H8RW-E / HWT-1102S21SM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21ST6W-E	
Model name	HWT-801H8RW-E / HWT-1102S21ST6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21ST9W-E	
Model name	HWT-801H8RW-E / HWT-1102S21ST9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21MM3W-E	
Model name	HWT-801H8RW-E / HWT-1102S21MM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21MM6W-E	
Model name	HWT-801H8RW-E / HWT-1102S21MM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21MT6W-E	
Model name	HWT-801H8RW-E / HWT-1102S21MT6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-801H8RW-E / HWT-1102S21MT9W-E	
Model name	HWT-801H8RW-E / HWT-1102S21MT9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	11.77 kW
El input	1.58 kW	3.79 kW
COP	5.06	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	132 %	132 %

Prated	8.61 kW	8.3 kW
SCOP	4.51	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.61 kW	7.34 kW
COP Tj = -7°C	2.94	2.28
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	4.66 kW	8.55 kW
COP Tj = +2°C	4.33	3.12
Cdh Tj = +2 °C	0.95	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	4.67
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	7.51
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	7.61 kW	7.34 kW
COP Tj = Tbiv	2.94	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	7.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.69 kW	0.6 kW
Annual energy consumption Qhe	3945 kWh	5097 kWh

Model HWT-1101H8W-E / HWT-1102S21SM3W-E	
Model name	HWT-1101H8W-E / HWT-1102S21SM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21SM6W-E	
Model name	HWT-1101H8W-E / HWT-1102S21SM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21ST6W-E	
Model name	HWT-1101H8W-E / HWT-1102S21ST6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21ST9W-E

Model name	HWT-1101H8W-E / HWT-1102S21ST9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21MM3W-E	
Model name	HWT-1101H8W-E / HWT-1102S21MM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21MM6W-E	
Model name	HWT-1101H8W-E / HWT-1102S21MM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21MT6W-E	
Model name	HWT-1101H8W-E / HWT-1102S21MT6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8W-E / HWT-1102S21MT9W-E	
Model name	HWT-1101H8W-E / HWT-1102S21MT9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21SM3W-E

Model name	HWT-1101H8RW-E / HWT-1102S21SM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21SM6W-E

Model name	HWT-1101H8RW-E / HWT-1102S21SM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21ST6W-E	
Model name	HWT-1101H8RW-E / HWT-1102S21ST6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21ST9W-E	
Model name	HWT-1101H8RW-E / HWT-1102S21ST9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21MM3W-E

Model name	HWT-1101H8RW-E / HWT-1102S21MM3W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21MM6W-E	
Model name	HWT-1101H8RW-E / HWT-1102S21MM6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21MT6W-E	
Model name	HWT-1101H8RW-E / HWT-1102S21MT6W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

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

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh

Model HWT-1101H8RW-E / HWT-1102S21MT9W-E

Model name	HWT-1101H8RW-E / HWT-1102S21MT9W-E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	135 %
COP	3.03
Heating up time	0:42 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	235 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11 kW	14.97 kW
El input	2.32 kW	4.9 kW
COP	4.74	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	138 %	138 %

Prated	10 kW	10 kW
SCOP	4.56	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.13 kW	9.04 kW
COP Tj = -7°C	2.88	2.24
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	5.58 kW	8.55 kW
COP Tj = +2°C	4.38	3.23
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.8 kW	3.86 kW
COP Tj = +7°C	6.16	5.03
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.31 kW	4.42 kW
COP Tj = 12°C	8.76	8.43
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	9.13 kW	9.04 kW
COP Tj = Tbiv	2.88	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.9
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.6 kW	2.5 kW
Annual energy consumption Qhe	4677 kWh	6005 kWh