DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

CERTIFICATE

Certificate holder	**TOSHIBA AIR CONDITIONING** **Porsham Close** **Belliver Industrial Estate** **Plymouth** **PL6 7DB** **UNITED KINGDOM**
Production facility	Kawasaki
Product	Air/Water Heat pumps
Type, Model	ESTIA HWT-801/1101
Testing basis	DIN EN 14511-1; DIN EN 14511-2; DIN EN 14511-3; DIN EN 14511-4:2019-07 DIN EN 14825:2019-07 DIN EN 12102-1:2018-02 DIN EN 16147:2017-08 European KEYMARK Scheme for Heat Pumps Rev. 9 (2021-03)
Mark of conformity	
Registration No.	011-1W0468
Valid until	2031-12-31
Right of use	This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.

2021-12-21

Robert Zorn M.Sc.
Managing Director

GESELLSCHAFT FÜR KONFORMITÄTSBEWERTUNG mbH DINCERTCO

DIN

DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-11125-01-00

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Gesellschaft für Konformitätsbewertung mbH

ANNEX

Certificate	011-1W0468 dated 2021-12-21
Technical Data	See Heat Pump KEYMARK database for detailed information
Testing laboratory/ Inspection body	Interstaatliche Hochschule für Technik Buchs NTB Wärmepumpen-Testzentrum WPZ Werdenbergstr. 4 9471 Buchs SWITZERLAND
Test report(s)	LW-406-19-19 dated 2019-07-22

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		
	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
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Pdh Tj = 12°C	2.3 kW	2.3 kW
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Heating

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	Low temperature	**Medium temperature**
Heat output	8 kW	9.96 kW
El input	1.54 kW	3.47 kW
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EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
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
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Pdh Tj = 12°C	2.3 kW	2.3 kW
COP Tj = 12°C	8.4	7
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Pdh Tj = Tbiv	7.2 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
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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-801HRW-E / HWT-1101XWHM3W-E

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
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
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EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
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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Pdh Tj = -7°C	7.2 kW	7.3 kW

COP Tj = -7°C	2.72	2.12
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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
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PTO	49 W	49 W
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Supplementary Heater: PSUP	1.38 kW	1.42 kW
Annual energy consumption Qhe	3655 kWh	4675 kWh

Heating

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	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-801HRW-E / HWT-1101XWHT9W-E

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

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
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EN 14825		
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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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Pdh Tj = -7°C	7.2 kW	7.3 kW

COP Tj = -7°C	2.72	2.12
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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
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COP Tj = 12°C	8.4	7
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.8 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.9
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
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-1101HW-E / HWT-1101XWHM3W-E

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
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-1101HW-E / HWT-1101XWHT6W-E

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	142 %
Prated	8.93 kW	8.27 kW
SCOP	4.55	3.62
Tbiv	-7 °C	-7 °C
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COP Tj = -7°C	2.59	2.12
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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
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Pdh Tj = 12°C	2.3 kW	2.3 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.7 kW	6.7 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.9
WTOL	65 °C	65 °C
Poff	7 W	7 W
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
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Model: HWT-1101HW-E / HWT-1101XWHT9W-E

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
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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	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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

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

General Data	
Power supply	1x230V 50Hz

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
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-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	4.63	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-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	4.63	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-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	4.63	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