

Subtype ESTIA HWT-1401 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-1401 AIO s2
Registration number	011-1W0612
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	11.07.2023
Testing basis	HP KEYMARK certification scheme rules V11

Model HWT-1401HW-E / HWT-1402S21SM3W-E

Model name	HWT-1401HW-E / HWT-1402S21SM3W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21SM6W-E

Model name	HWT-1401HW-E / HWT-1402S21SM6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21ST6W-E

Model name	HWT-1401HW-E / HWT-1402S21ST6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
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Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 l

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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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
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Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21ST9W-E

Model name	HWT-1401HW-E / HWT-1402S21ST9W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
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Pdh Tj = 12°C	4.28 kW	4.24 kW
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Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21SM3W-E

Model name	HWT-1401HRW-E / HWT-1402S21SM3W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21SM6W-E

Model name	HWT-1401HRW-E / HWT-1402S21SM6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21ST6W-E

Model name	HWT-1401HRW-E / HWT-1402S21ST6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
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Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21ST9W-E

Model name	HWT-1401HRW-E / HWT-1402S21ST9W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
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Mixed water at 40°C	220 l

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Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
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COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
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Pdh Tj = 12°C	4.28 kW	4.24 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21MM3W-E

Model name	HWT-1401HW-E / HWT-1402S21MM3W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 l

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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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21MM6W-E

Model name	HWT-1401HW-E / HWT-1402S21MM6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21MT6W-E

Model name	HWT-1401HW-E / HWT-1402S21MT6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HW-E / HWT-1402S21MT9W-E

Model name	HWT-1401HW-E / HWT-1402S21MT9W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21MM3W-E

Model name	HWT-1401HRW-E / HWT-1402S21MM3W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21MM6W-E

Model name	HWT-1401HRW-E / HWT-1402S21MM6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21MT6W-E

Model name	HWT-1401HRW-E / HWT-1402S21MT6W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

Model HWT-1401HRW-E / HWT-1402S21MT9W-E

Model name	HWT-1401HRW-E / HWT-1402S21MT9W-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 η_{DHW}	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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	14 kW	14.31 kW
El input	3.04 kW	4.68 kW
COP	4.6	3.06

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.65	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.94
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.91
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh