Subtype ESTIA HWT-1401H8

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-1401H8
Registration number	011-1W0609
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-1401H8W-E / HWT-1401XWHM3W-E	
Model name	HWT-1401H8W-E / HWT-1401XWHM3W-E
Application	Heating (medium 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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	138 %
Prated	11 kW	11 kW
SCOP	4.57	3.55
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	0.93
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.9
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-1401H8W-E / HWT-1401XWHM6W-E	
Model name	HWT-1401H8W-E / HWT-1401XWHM6W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate		
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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-1401H8W-E / HWT-1401XWHT6W-E	
Model name	HWT-1401H8W-E / HWT-1401XWHT6W-E
Application	Heating (medium 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 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 12102-1 | Average Climate

	Low temperature	Medium temperature
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EN 14825 | Average Climate

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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-1401H8W-E / HWT-1401XWHT9W-E	
Model name	HWT-1401H8W-E / HWT-1401XWHT9W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
	Low temperature	Medium temperature
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EN 14825 | Average Climate		
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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-1401H8RW-E / HWT-1401XWHM3W-E	
Model name	HWT-1401H8RW-E / HWT-1401XWHM3W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
	Low temperature	Medium temperature
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EN 14825 | Average Climate		
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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-1401H8RW-E / HWT-1401XWHM6W-E	
Model name	HWT-1401H8RW-E / HWT-1401XWHM6W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
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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-1401H8RW-E / HWT-1401XWHT6W-E	
Model name	HWT-1401H8RW-E / HWT-1401XWHT6W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
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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-1401H8RW-E / HWT-1401XWHT9W-E	
Model name	HWT-1401H8RW-E / HWT-1401XWHT9W-E
Application	Heating (medium 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 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 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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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