Login

Summary of	ESTIA HWT-401/601	Reg. No.	011-1W0467
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-401/601		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	0.9 kg		
Certification Date	21.12.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 9 (2021-03)		

Model: HWT-401HW-E / HWT-601XWHM3W-E

Configure model	
Model name	HWT-401HW-E / HWT-601XWHM3W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %
Prated	4.97 kW	4.54 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.97 kW	1.04 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model: HWT-401HW-E / HWT-601XWHT6W-E

Configure model	
Model name	HWT-401HW-E / HWT-601XWHT6W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %
Prated	4.97 kW	4.54 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.97 kW	1.04 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model: HWT-601HW-E / HWT-601XWHM3W-E

Configure model	
Model name	HWT-601HW-E / HWT-601XWHM3W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %
Prated	5.97 kW	5.7 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.1
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	1.2 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Model: HWT-601HW-E / HWT-601XWHT6W-E

Configure model	
Model name	HWT-601HW-E / HWT-601XWHT6W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %
Prated	5.97 kW	5.7 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.1
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	1.2 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Model: HWT-401HW-E / HWT-601F21SM3W-E

Configure model	
Model name	HWT-401HW-E / HWT-601F21SM3W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %
Prated	4.97 kW	4.54 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.97 kW	1.04 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	1:36 h:min
Standby power input	37 W
Reference hot water temperature	48.2 °C
Mixed water at 40°C	220 l

Model: HWT-401HW-E / HWT-601F21ST6W-E

Configure model	
Model name	HWT-401HW-E / HWT-601F21ST6W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %
Prated	4.97 kW	4.54 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.97 kW	1.04 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	1:36 h:min
Standby power input	37 W
Reference hot water temperature	48.2 °C
Mixed water at 40°C	220 l

Model: HWT-601HW-E / HWT-601F21SM3W-E

Configure model	
Model name	HWT-601HW-E / HWT-601F21SM3W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %
Prated	5.97 kW	5.7 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.1
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	1.2 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	1:36 h:min
Standby power input	37 W
Reference hot water temperature	48.2 °C
Mixed water at 40°C	220 l

Model: HWT-601HW-E / HWT-601F21ST6W-E

Configure model	
Model name	HWT-601HW-E / HWT-601F21ST6W-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

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %
Prated	5.97 kW	5.7 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91

Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.1
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.1 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.87 kW	1.2 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	136 %
COP	3.21
Heating up time	1:36 h:min
Standby power input	37 W
Reference hot water temperature	48.2 °C
Mixed water at 40°C	220 l