

This information was generated by the HP KEYMARK database on 18 Mar 2022

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Summary of	ESTIA HWS-1105/HWS-1405H	Reg. No.	011-1W0343
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 HWS-1105/HWS-1405H		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.7 kg		
Certification Date	26.11.2019		

Model: HWS-1105H-E/HWS-1405XWHM3-E

Configure model

Model name	HWS-1105H-E/HWS-1405XWHM3-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
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.17	3.35
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.50 kW	8.20 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = -7°C	2.86	2.12
Pdh Tj = +2°C	4.80 kW	4.90 kW
COP Tj = +2°C	4.61	3.56
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	5.34	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.54
Pdh Tj = Tbiv	8.50 kW	8.20 kW
COP Tj = Tbiv	2.86	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.12
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	4785 kWh	5718 kWh

Heating

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.52 kW	10.05 kW
El input	2.15 kW	3.43 kW
COP	4.88	2.93

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: HWS-1105H-E/HWS-1405XWHT6-E

Configure model

Model name	HWS-1105H-E/HWS-1405XWHT6-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
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
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EN 14825

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COP Tj = Tbiv	2.86	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.12
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	4785 kWh	5718 kWh

Heating

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EN 14511-2

	Low temperature	Medium temperature
Heat output	10.52 kW	10.05 kW
El input	2.15 kW	3.43 kW
COP	4.88	2.93

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: HWS-1105H-E/HWS-1405XWHT9-E

Configure model	
Model name	HWS-1105H-E/HWS-1405XWHT9-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	43 dB(A)	43 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	163 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.17	3.35
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.50 kW	8.20 kW

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COP Tj = +7°C	5.34	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.54
Pdh Tj = Tbiv	8.50 kW	8.20 kW
COP Tj = Tbiv	2.86	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.12
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	4785 kWh	5718 kWh

Heating

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EN 14511-2

	Low temperature	Medium temperature
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COP	4.88	2.93

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: HWS-1405H-E/HWS-1405XWHM3-E

Configure model

Model name	HWS-1405H-E/HWS-1405XWHM3-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
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	159 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.08	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.20 kW	8.00 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = -7°C	2.68	2.07
Pdh Tj = +2°C	5.10 kW	4.80 kW
COP Tj = +2°C	4.43	3.48
Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.39	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.93
Pdh Tj = Tbiv	9.20 kW	8.00 kW
COP Tj = Tbiv	2.68	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.20 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.07
Rated airflow rate	5590 m³/h	5590 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	5278 kWh	5701 kWh

Heating

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14511-2

	Low temperature	Medium temperature
Heat output	13.15 kW	11.52 kW
El input	2.92 kW	3.98 kW
COP	4.50	2.89

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: HWS-1405H-E/HWS-1405XWHT6-E

Configure model

Model name	HWS-1405H-E/HWS-1405XWHT6-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
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	159 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.08	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.20 kW	8.00 kW

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.20 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.07
Rated airflow rate	5590 m³/h	5590 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	5278 kWh	5701 kWh

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	Low temperature	Medium temperature
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COP	4.50	2.89

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: HWS-1405H-E/HWS-1405XWHT9-E

Configure model	
Model name	HWS-1405H-E/HWS-1405XWHT9-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

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.20 kW	8.00 kW
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