Login

Summary of	ESTIA HWS-1105H8/HWS-1405H8-E/HWS1605H8-E	Reg. No.	011-1W0344
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-1105H8/HWS-1405H8-E/HWS1605H8-E		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.7 kg		
Certification Date	26.11.2019		

Disclaimer: this document is a summary of the certified performance.
The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

Model: HWS-1105H8-E/HWS-1405XWHM3-E

Configure model	
Model name	HWS-1105H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	10.52 kW	10.05 kW
El input	2.19 kW	3.49 kW
COP	4.80	2.88

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

Average Climate

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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	161 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.12	3.34
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.60 kW	7.80 kW
COP Tj = -7°C	2.90	2.09
Pdh Tj = +2°C	6.00 kW	4.70 kW
COP Tj = +2°C	4.48	3.59
Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.44	4.29
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.34	5.50
Pdh Tj = Tbiv	8.60 kW	7.80 kW

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COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.60 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.09
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	4924 kWh	5486 kWh

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Model: HWS-1105H8-E/HWS-1405XWHT6-E

Configure model	
Model name	HWS-1105H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	10.52 kW	10.05 kW
El input	2.19 kW	3.49 kW
COP	4.80	2.88

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

Average Climate

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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	161 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.12	3.34
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.60 kW	7.80 kW
COP Tj = -7°C	2.90	2.09
Pdh Tj = +2°C	6.00 kW	4.70 kW
COP Tj = +2°C	4.48	3.59
Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.44	4.29
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.34	5.50
Pdh Tj = Tbiv	8.60 kW	7.80 kW

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COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.60 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.09
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	4924 kWh	5486 kWh

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Model: HWS-1105H8-E/HWS-1405XWHT9-E

Configure model	
Model name	HWS-1105H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	10.52 kW	10.05 kW
El input	2.19 kW	3.49 kW
COP	4.80	2.88

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

Average Climate

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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	161 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.12	3.34
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.60 kW	7.80 kW
COP Tj = -7°C	2.90	2.09
Pdh Tj = +2°C	6.00 kW	4.70 kW
COP Tj = +2°C	4.48	3.59
Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.44	4.29
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.34	5.50
Pdh Tj = Tbiv	8.60 kW	7.80 kW

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COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.60 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.09
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	4924 kWh	5486 kWh

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Model: HWS-1405H8-E/HWS-1405XWHM3-E

Configure model	
Model name	HWS-1405H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	13.15 kW	12.03 kW
El input	2.96 kW	4.29 kW
COP	4.44	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

Average Climate

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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	157 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.02	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.80 kW	8.20 kW
COP Tj = -7°C	2.76	1.96
Pdh Tj = +2°C	6.00 kW	5.10 kW
COP Tj = +2°C	4.34	3.56
Pdh Tj = +7°C	3.50 kW	3.20 kW
COP Tj = +7°C	5.35	4.38
Pdh Tj = 12°C	2.80 kW	2.70 kW
COP Tj = 12°C	6.35	5.56
Pdh Tj = Tbiv	8.80 kW	8.20 kW

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COP Tj = Tbiv	2.76	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.96
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	5156 kWh	5772 kWh

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Model: HWS-1405H8-E/HWS-1405XWHT6-E

Configure model	
Model name	HWS-1405H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	13.15 kW	12.03 kW
El input	2.96 kW	4.29 kW
COP	4.44	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

Average Climate

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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	157 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.02	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.80 kW	8.20 kW
COP Tj = -7°C	2.76	1.96
Pdh Tj = +2°C	6.00 kW	5.10 kW
COP Tj = +2°C	4.34	3.56
Pdh Tj = +7°C	3.50 kW	3.20 kW
COP Tj = +7°C	5.35	4.38
Pdh Tj = 12°C	2.80 kW	2.70 kW
COP Tj = 12°C	6.35	5.56
Pdh Tj = Tbiv	8.80 kW	8.20 kW

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COP Tj = Tbiv	2.76	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.96
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	5156 kWh	5772 kWh

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Model: HWS-1405H8-E/HWS-1405XWHT9-E

Configure model	
Model name	HWS-1405H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	13.15 kW	12.03 kW
El input	2.96 kW	4.29 kW
COP	4.44	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

Average Climate

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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	157 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.02	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.80 kW	8.20 kW
COP Tj = -7°C	2.76	1.96
Pdh Tj = +2°C	6.00 kW	5.10 kW
COP Tj = +2°C	4.34	3.56
Pdh Tj = +7°C	3.50 kW	3.20 kW
COP Tj = +7°C	5.35	4.38
Pdh Tj = 12°C	2.80 kW	2.70 kW
COP Tj = 12°C	6.35	5.56
Pdh Tj = Tbiv	8.80 kW	8.20 kW

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COP Tj = Tbiv	2.76	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.96
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	5156 kWh	5772 kWh

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Model: HWS-1605H8-E/HWS-1405XWHM3-E

Configure model	
Model name	HWS-1605H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.91 kW	13.40 kW
El input	3.47 kW	4.95 kW
COP	4.30	2.70

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

Average Climate

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	159 %	130 %
Prated	10.00 kW	10.00 kW
SCOP	4.07	3.33
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.00 kW	8.70 kW
COP Tj = -7°C	2.65	2.01
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.26	3.54
Pdh Tj = +7°C	3.70 kW	3.30 kW
COP Tj = +7°C	5.95	4.38
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.07	5.67
Pdh Tj = Tbiv	9.00 kW	8.70 kW

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COP Tj = Tbiv	2.65	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	2.01
Rated airflow rate	5860 m³/h	5860 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	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

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Model: HWS-1605H8-E/HWS-1405XWHT6-E

Configure model	
Model name	HWS-1605H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.91 kW	13.40 kW
El input	3.47 kW	4.95 kW
COP	4.30	2.70

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

Average Climate

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	159 %	130 %
Prated	10.00 kW	10.00 kW
SCOP	4.07	3.33
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.00 kW	8.70 kW
COP Tj = -7°C	2.65	2.01
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.26	3.54
Pdh Tj = +7°C	3.70 kW	3.30 kW
COP Tj = +7°C	5.95	4.38
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.07	5.67
Pdh Tj = Tbiv	9.00 kW	8.70 kW

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COP Tj = Tbiv	2.65	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	2.01
Rated airflow rate	5860 m³/h	5860 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	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

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Model: HWS-1605H8-E/HWS-1405XWHT9-E

Configure model	
Model name	HWS-1605H8-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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.91 kW	13.40 kW
El input	3.47 kW	4.95 kW
COP	4.30	2.70

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

Average Climate

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	159 %	130 %
Prated	10.00 kW	10.00 kW
SCOP	4.07	3.33
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.00 kW	8.70 kW
COP Tj = -7°C	2.65	2.01
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.26	3.54
Pdh Tj = +7°C	3.70 kW	3.30 kW
COP Tj = +7°C	5.95	4.38
Pdh Tj = 12°C	2.80 kW	2.80 kW
COP Tj = 12°C	6.07	5.67
Pdh Tj = Tbiv	9.00 kW	8.70 kW

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COP Tj = Tbiv	2.65	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	2.01
Rated airflow rate	5860 m³/h	5860 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	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

Disclaimer: this document is a summary of the certified performance.
The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.