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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	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Heat Pump Test Center WPZ		
Subtype title	ESTIA HWS-1105H8/HWS-1405H8-E/HWS1605H8-E		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-410a		
Mass Of Refrigerant	2.7 kg		
Certification Date	26.11.2019		
Testing basis	n/a		

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

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	161 %	130 %
Prated	10.00	9.00
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
		1

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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
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL	8.60 kW	7.80 kW
COP Tj = TOL	2.90	2.09
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
РСК	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	4924 kWh	5486 kWh

Heating

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EN 14511-2				
Low temperature Medium temperature				
Heat output	10.52 kW	10.05 kW		
El input	2.19 kW	3.49 kW		
СОР	4.80	2.88		
Indoor water flow rate	1.93 mA ³ /h	1.08 mA³/h		

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

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

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	161 %	130 %
Prated	10.00	9.00
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

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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
COP Tj = Tbiv		2.90	2.09
Pdh Tj = TOL		8.60 kW	7.80 kW
COP Tj = TOL		2.90	2.09
Rated airflow rate		5310 m³/h	5310 m³/h
WTOL		55 °C	55 °C
Poff		17 W	17 W
РТО		120 W	120 W
PSB		17 W	17 W
РСК		14 W	14 W
Supplementary Heater: Type of energy	input	electric	electric
Supplementary Heater: PSUP		10.00 kW	9.00 kW
Annual energy consumption Qhe		4924 kWh	5486 kWh

Heating

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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.52 kW	10.05 kW	
El input	2.19 kW	3.49 kW	
СОР	4.80	2.88	
Indoor water flow rate	1.93 mA ³ /h	1.08 mA³/h	

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

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

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			
161 %	130 %		
10.00	9.00		
4.12	3.34		
-7 °C	-7 °C		
-7 °C	-7 °C		
8.60 kW	7.80 kW		
2.90	2.09		
6.00 kW	4.70 kW		
4.48	3.59		
	Low temperature 161 % 10.00 4.12 -7 °C -7 °C 8.60 kW 2.90 6.00 kW		

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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
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL	8.60 kW	7.80 kW
COP Tj = TOL	2.90	2.09
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
РСК	14 W	14 W

Heating

Supplementary Heater: Type of energy input

Supplementary Heater: PSUP

Annual energy consumption Qhe

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electric

10.00 kW

4924 kWh

electric

9.00 kW

5486 kWh



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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.52 kW	10.05 kW	
El input	2.19 kW	3.49 kW	
СОР	4.80	2.88	
Indoor water flow rate	1.93 mA ³ /h	1.08 mA³/h	

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

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

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	68 dB(A)	68 dB(A)

EN 14825			
Low temperature Medium temperature			
η _s	157 %	129 %	
Prated	10.00	9.00	
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	
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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	
COP Tj = Tbiv	2.76	1.96	
Pdh Tj = TOL	8.80 kW	8.20 kW	
COP Tj = TOL	2.76	1.96	
Rated airflow rate	5590 m³/h	5590 m³/h	
WTOL	55 °C	55 °C	
Poff	17 W	17 W	
РТО	120 W	120 W	
PSB	17 W	17 W	
РСК	14 W	14 W	
Supplementary Heater: Type of energy input	electric	electric	
Supplementary Heater: PSUP	10.00 kW	9.00 kW	
Annual energy consumption Qhe	5156 kWh	5772 kWh	

Heating

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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	13.15 kW	12.03 kW	
El input	2.96 kW	4.29 kW	
СОР	4.44	2.81	
Indoor water flow rate	2.41 mA ³ /h	1.29 mA³/h	

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

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

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	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	157 %	129 %
Prated	10.00	9.00
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
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Pdh Tj = +7°C	3.50) kW	3.20 kW
COP Tj = +7°C	5.35	5	4.38
Pdh Tj = 12°C	2.80) kW	2.70 kW
COP Tj = 12°C	6.35	5	5.56
Pdh Tj = Tbiv	8.80) kW	8.20 kW
COP Tj = Tbiv	2.76	6	1.96
Pdh Tj = TOL	8.80) kW	8.20 kW
COP Tj = TOL	2.76	6	1.96
Rated airflow rate	5590	0 m³/h	5590 m³/h
WTOL	55 °	°C	55 °C
Poff	17 V	N	17 W
РТО	120	w	120 W
PSB	17 V	N	17 W
РСК	14 V	N	14 W
Supplementary Heater: Type of energy inpu	it elec	ctric	electric
Supplementary Heater: PSUP	10.0	00 kW	9.00 kW
Annual energy consumption Qhe	5150	6 kWh	5772 kWh

Heating

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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	13.15 kW	12.03 kW	
El input	2.96 kW	4.29 kW	
СОР	4.44	2.81	
Indoor water flow rate	2.41 mA ³ /h	1.29 mA³/h	

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

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

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	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	157 %	129 %
Prated	10.00	9.00
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
	I	I

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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
COP Tj = Tbiv	2.76	1.96
Pdh Tj = TOL	8.80 kW	8.20 kW
COP Tj = TOL	2.76	1.96
Rated airflow rate	5590 m³/h	5590 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
РСК	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	10.00 kW	9.00 kW
Annual energy consumption Qhe	5156 kWh	5772 kWh

Heating

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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	13.15 kW	12.03 kW	
El input	2.96 kW	4.29 kW	
СОР	4.44	2.81	
Indoor water flow rate	2.41 mA ³ /h	1.29 mA³/h	

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

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

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	69 dB(A)	69 dB(A)

EN 14825		
Low temperature	Medium temperature	
159 %	130 %	
10.00	10.00	
4.07	3.33	
-7 °C	-7 °C	
-7 °C	-7 °C	
9.00 kW	8.70 kW	
2.65	2.01	
6.00 kW	5.50 kW	
4.26	3.54	
	Low temperature 159 % 10.00 4.07 -7 °C -7 °C 9.00 kW 2.65 6.00 kW	

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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
COP Tj = Tbiv		2.65	2.01
Pdh Tj = TOL		9.00 kW	8.70 kW
COP Tj = TOL		2.65	2.01
Rated airflow rate		5860 m³/h	5860 m³/h
WTOL		55 °C	55 °C
Poff		17 W	17 W
РТО		120 W	120 W
PSB		17 W	17 W
РСК		14 W	14 W
Supplementary Heater: Type of energy in	nput	electric	electric
Supplementary Heater: PSUP		10.00 kW	10.00 kW

Heating

Annual energy consumption Qhe

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5212 kWh

6154 kWh



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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	14.91 kW	13.40 kW	
El input	3.47 kW	4.95 kW	
СОР	4.30	2.70	
Indoor water flow rate	2.75 mA ³ /h	1.44 mA³/h	

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

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

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	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	159 %	130 %
Prated	10.00	10.00
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

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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
COP Tj = Tbiv	2.65	2.01
Pdh Tj = TOL	9.00 kW	8.70 kW
COP Tj = TOL	2.65	2.01
Rated airflow rate	5860 m³/h	5860 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
РСК	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	10.00 kW	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

Heating

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EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.91 kW	13.40 kW
El input	3.47 kW	4.95 kW
СОР	4.30	2.70
Indoor water flow rate	2.75 mA ³ /h	1.44 mA³/h

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

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

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	69 dB(A)	69 dB(A)

EN 14825		
Low temperature	Medium temperature	
159 %	130 %	
10.00	10.00	
4.07	3.33	
-7 °C	-7 °C	
-7 °C	-7 °C	
9.00 kW	8.70 kW	
2.65	2.01	
6.00 kW	5.50 kW	
4.26	3.54	
	Low temperature 159 % 10.00 4.07 -7 °C -7 °C 9.00 kW 2.65 6.00 kW	

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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
COP Tj = Tbiv	2.65	2.01
Pdh Tj = TOL	9.00 kW	8.70 kW
COP Tj = TOL	2.65	2.01
Rated airflow rate	5860 m³/h	5860 m³/h
WTOL	55 °C	55 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
РСК	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	10.00 kW	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

Heating

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EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.91 kW	13.40 kW
El input	3.47 kW	4.95 kW
СОР	4.30	2.70
Indoor water flow rate	2.75 mA ³ /h	1.44 mA³/h

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

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