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Summary of	ESTIA HWS-P1105	Reg. No.	011-1W0347
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		
Name of testing laboratory	Heat Pump Test Center WPZ		
Subtype title	ESTIA HWS-P1105		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.7 kg		
Certification Date	26.11.2019		



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Model: HWS-P1105HR-E/HWS-P1105XWHM3-E

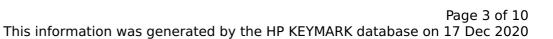
General Data		
Power supply 1x230V 50Hz		

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}	175 %	131 %
Prated	12.00 kW	9.00 kW
SCOP	4.48	3.38
Tbiv	-7 °C	-7 °C
TOL	-9 °C	-9 °C
Pdh Tj = -7°C	10.50 kW	7.70 kW
COP Tj = -7°C	2.71	1.93
Pdh Tj = +2°C	6.20 kW	4.80 kW
COP Tj = +2°C	4.37	3.43
Pdh Tj = +7°C	4.40 kW	3.10 kW

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COP Tj = +7°C	6.42	4.52
Pdh Tj = 12°C	2.60 kW	2.60 kW
COP Tj = 12°C	7.09	5.99
Pdh Tj = Tbiv	10.50 kW	7.70 kW
COP Tj = Tbiv	2.71	1.93
Pdh Tj = TOL	9.20 kW	7.10 kW
COP Tj = TOL	2.50	1.76
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	120 W	120 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	12.00 kW	9.00 kW
Annual energy consumption Qhe	5523 kWh	5374 kWh

Heating



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EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.20 kW	10.21 kW	
El input	2.30 kW	3.25 kW	
СОР	4.88	3.14	
Indoor water flow rate	1.93 m³/h	1.10 m³/h	

EN 14511-4		
Chutting off the heat transfer medium flow	passed	
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-P1105HR-E/HWS-P1105XWHT6-E

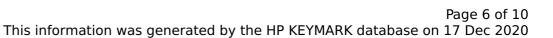
General Data	
Power supply 1x230V 50Hz	

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}	175 %	131 %
Prated	12.00 kW	9.00 kW
SCOP	4.48	3.38
Tbiv	-7 °C	-7 °C
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Pdh Tj = TOL	9.20 kW	7.10 kW
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Heating



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El input	2.30 kW	3.25 kW	
СОР	4.88	3.14	
Indoor water flow rate	1.93 m³/h	1.10 m³/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-P1105HR-E/HWS-P1105XWHT9-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}	175 %	131 %
Prated	12.00 kW	9.00 kW
SCOP	4.48	3.38
Tbiv	-7 °C	-7 °C
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PCK	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	12.00 kW	9.00 kW

Heating

Annual energy consumption Qhe

CEN heat pump KEYMARK

5523 kWh

5374 kWh



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Shutting off the heat transfer medium flow	passed	
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