DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

CERTIFICATE

Certificate holder	**TOSHIBA AIR CONDITIONING** **Porsham Close** **Belliver Industrial Estate** **Plymouth** **PL6 7DB** **UNITED KINGDOM**
Production facility	Kawasaki
Product	Air/Water Heat pumps
Type, Model	ESTIA HWS-P805
Testing basis	DIN EN 14511-1; DIN EN 14511-2; DIN EN 14511-3; DIN EN 14511-4:2019-07 DIN EN 14825:2019-07 DIN EN 12102-1:2018-02 European KEYMARK Scheme for Heat Pumps Rev.6 (2019-03)
Mark of conformity	
Registration No.	011-1W0345
Valid until	2029-11-30
Right of use	This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.

2019-11-26

Dipl.-Wi.-Ing. (FH) Sören Scholz
Head of Certification Body

GESELLSCHAFT FÜR KONFORMITÄTSBEWERTUNG MBH DIN CERTCO

DAkkS Deutsche Akkreditierungsstelle D-ZE-11125-01-00

DIN

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ANNEX

Certificate	011-1W0345 dated 2019-11-26
Technical Data	See Heat Pump KEYMARK database for detailed information
Testing laboratory/ Inspection body	Interstaatliche Hochschule für Technik Buchs NTB Wärmepumpen-Testzentrum WPZ Werdenbergstr. 4 9471 Buchs SWITZERLAND
Test report(s)	LW-406-19-19 dated 2019-07-22

Summary of	ESTIA HWS-P805	Reg. No.	011-1W0345
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-P805		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-410a		
Mass Of Refrigerant	2.7 kg		
Certification Date	26.11.2019		
Testing basis	n/a		

Model: HWS-P805HR-E/HWS-P805XWHM3-E

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	157 %	125 %
Prated	11.00	9.00
SCOP	4.01	3.22
Tbiv	-7 °C	-7 °C
TOL	-9 °C	-9 °C
Pdh Tj = -7°C	10.10 kW	7.90 kW
COP Tj = -7°C	2.70	1.93
Pdh Tj = +2°C	6.30 kW	5.00 kW
COP Tj = +2°C	3.86	3.29

Pdh Tj = +7°C	3.90 kW	3.30 kW
COP Tj = +7°C	5.67	4.13
Pdh Tj = 12°C	2.90 kW	2.90 kW
COP Tj = 12°C	5.20	4.96
Pdh Tj = Tbiv	10.10 kW	7.90 kW
COP Tj = Tbiv	2.70	1.93
Pdh Tj = TOL	8.60 kW	7.30 kW
COP Tj = TOL	2.50	1.78
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	80 W	80 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	11.00 kW	9.00 kW
Annual energy consumption Qhe	5881 kWh	5754 kWh

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	7.26 kW
El input	1.68 kW	2.51 kW
COP	4.76	2.89
Indoor water flow rate	1.37 mA³/h	0.78 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

Model: HWS-P805HR-E/HWS-P805XWHT6-E

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	157 %	125 %
Prated	11.00	9.00
SCOP	4.01	3.22
Tbiv	-7 °C	-7 °C
TOL	-9 °C	-9 °C
Pdh Tj = -7°C	10.10 kW	7.90 kW
COP Tj = -7°C	2.70	1.93
Pdh Tj = +2°C	6.30 kW	5.00 kW
COP Tj = +2°C	3.86	3.29

Pdh Tj = +7°C	3.90 kW	3.30 kW
COP Tj = +7°C	5.67	4.13
Pdh Tj = 12°C	2.90 kW	2.90 kW
COP Tj = 12°C	5.20	4.96
Pdh Tj = Tbiv	10.10 kW	7.90 kW
COP Tj = Tbiv	2.70	1.93
Pdh Tj = TOL	8.60 kW	7.30 kW
COP Tj = TOL	2.50	1.78
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	80 W	80 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	11.00 kW	9.00 kW
Annual energy consumption Qhe	5881 kWh	5754 kWh

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	7.26 kW
El input	1.68 kW	2.51 kW
COP	4.76	2.89
Indoor water flow rate	1.37 mA³/h	0.78 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

Model: HWS-P805HR-E/HWS-P805XWHT9-E

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	157 %	125 %
Prated	11.00	9.00
SCOP	4.01	3.22
Tbiv	-7 °C	-7 °C
TOL	-9 °C	-9 °C
Pdh Tj = -7°C	10.10 kW	7.90 kW
COP Tj = -7°C	2.70	1.93
Pdh Tj = +2°C	6.30 kW	5.00 kW
COP Tj = +2°C	3.86	3.29

Pdh Tj = +7°C	3.90 kW	3.30 kW
COP Tj = +7°C	5.67	4.13
Pdh Tj = 12°C	2.90 kW	2.90 kW
COP Tj = 12°C	5.20	4.96
Pdh Tj = Tbiv	10.10 kW	7.90 kW
COP Tj = Tbiv	2.70	1.93
Pdh Tj = TOL	8.60 kW	7.30 kW
COP Tj = TOL	2.50	1.78
Rated airflow rate	5310 m³/h	5310 m³/h
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	80 W	80 W
PSB	17 W	17 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	11.00 kW	9.00 kW
Annual energy consumption Qhe	5881 kWh	5754 kWh

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.00 kW	7.26 kW
El input	1.68 kW	2.51 kW
COP	4.76	2.89
Indoor water flow rate	1.37 mA³/h	0.78 mA³/h

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Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed