

# 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-1105H8R-E/HWS-1405H8R-E/HWS-1605H8R-E

**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.**

011-1W0344

**Valid until**

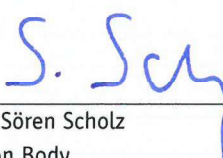
2029-11-30

**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

# ANNEX

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<b>Certificate</b>	011-1W0344 dated 2019-11-26
<b>Technical Data</b>	See Heat Pump KEYMARK database for detailed information
<b>Testing laboratory/ Inspection body</b>	Interstaatliche Hochschule für Technik Buchs NTB Wärmepumpen-Testzentrum WPZ Werdenbergstr. 4 9471 Buchs SWITZERLAND
<b>Test report(s)</b>	LW-406-19-19 dated 2019-07-22



## Model: HWS-1605H8R-E/HWS-1405XWHT9-E

### 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	69 dB(A)	69 dB(A)

#### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was downloaded from the HP KEYMARK database on 9 Jan 2020

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 m <sup>3</sup> /h	5860 m <sup>3</sup> /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	electric	electric
Supplementary Heater: PSUP	10.00 kW	10.00 kW
Annual energy consumption Qhe	5212 kWh	6154 kWh

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	14.91 kW	13.40 kW
EI input	3.47 kW	4.95 kW
COP	4.30	2.70
Indoor water flow rate	2.75 mA <sup>3</sup> /h	1.44 mA <sup>3</sup> /h

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