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Summary of	ESTIA HWS-1105/HWS-1405H	Reg. No.	011-1W0343
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-1105/HWS-1405H		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.7 kg		
Certification Date	26.11.2019		

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

Configure model

Model name	HWS-1105H-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
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.52 kW	10.05 kW
El input	2.15 kW	3.43 kW
COP	4.88	2.93

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

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	163 %	130 %
Prated	10.00 kW	9.00 kW
SCOP	4.17	3.35
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	8.50 kW	8.20 kW
COP Tj = -7°C	2.86	2.12
Pdh Tj = +2°C	4.80 kW	4.90 kW
COP Tj = +2°C	4.61	3.56
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	5.34	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.54
Pdh Tj = Tbiv	8.50 kW	8.20 kW

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COP $T_j = T_{biv}$	2.86	2.12
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	8.50 kW	8.20 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.86	2.12
Rated airflow rate	5310 m ³ /h	5310 m ³ /h
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	4785 kWh	5718 kWh

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

Configure model	
Model name	HWS-1105H-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	2.15 kW	3.43 kW
COP	4.88	2.93

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

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Rated airflow rate	5310 m ³ /h	5310 m ³ /h
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	4785 kWh	5718 kWh

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

Configure model	
Model name	HWS-1105H-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	2.15 kW	3.43 kW
COP	4.88	2.93

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

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EN 14825

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COP Tj = -7°C	2.86	2.12
Pdh Tj = +2°C	4.80 kW	4.90 kW
COP Tj = +2°C	4.61	3.56
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	5.34	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
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Rated airflow rate	5310 m ³ /h	5310 m ³ /h
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	4785 kWh	5718 kWh

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

Configure model

Model name	HWS-1405H-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
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	13.15 kW	11.52 kW
El input	2.92 kW	3.98 kW
COP	4.50	2.89

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

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	159 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.08	3.31
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	9.20 kW	8.00 kW
COP Tj = -7°C	2.68	2.07
Pdh Tj = +2°C	5.10 kW	4.80 kW
COP Tj = +2°C	4.43	3.48
Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.39	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.93
Pdh Tj = Tbiv	9.20 kW	8.00 kW

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COP $T_j = T_{biv}$	2.68	2.07
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	9.20 kW	8.00 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.68	2.07
Rated airflow rate	5590 m ³ /h	5590 m ³ /h
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	5278 kWh	5701 kWh

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

Configure model

Model name	HWS-1405H-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
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	13.15 kW	11.52 kW
El input	2.92 kW	3.98 kW
COP	4.50	2.89

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

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	159 %	129 %
Prated	10.00 kW	9.00 kW
SCOP	4.08	3.31
Tbiv	-7 °C	-7 °C
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Pdh Tj = +7°C	3.40 kW	3.20 kW
COP Tj = +7°C	5.39	4.34
Pdh Tj = 12°C	2.70 kW	2.70 kW
COP Tj = 12°C	6.37	5.93
Pdh Tj = Tbiv	9.20 kW	8.00 kW

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Rated airflow rate	5590 m ³ /h	5590 m ³ /h
WTOL	55 °C	55 °C
P _{off}	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 Q _{he}	5278 kWh	5701 kWh

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

Configure model	
Model name	HWS-1405H-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	11.52 kW
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Defrost test	passed
Starting and operating test	passed

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Supplementary Heater: PSUP	10.00 kW	9.00 kW
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