



HWS-_XWH ESTIA SPLIT S5



The Toshiba air to water heat pump split system is designed to deliver the right temperature for space heating and produce domestic sanitary hot water throughout the year. The ESTIA system has the additional advantage of providing cooling in the warmer seasons.

High Energy efficiency providing enhanced energy savings

A++ / A++ energy class in space heating & combination heater. Part Load efficiency η_s up to 163% certified by Eurovent EuroHP according to NF414 & EN14825.

The Toshiba Inverter uses the new vector controlled Intelligent Power Drive Unit, which enables a wider range of compressor frequencies resulting in better temperature control.

Easy to install, easy to control

Quick and easy to install, the ESTIA hydro module unit can be placed safely in the most suitable place within the house.

Its large screen remote controller is designed to be simple, intuitive and easy to use. ESTIA is compatible with latest generations of connected thermostat.

COP MAX



4.90

CAPACITY



4.5kW >16kW

OPERATION



-20°C > +43°C

HOT WATER



+40°C > +75°C

Best in class performances:

- Max COP 4.90 @+7°C & 3.08 @-7°C air temperature
- Heating Operation down to -20°C
- Domestic sanitary hot water +40°C to +75°C
- Master/Slave group control up to 8 units



INDOOR UNITS

HWS-455XWHM3-E HWS-1405XWHM3-E
HWS-805XWHM3-E HWS-1405XWHT6-E
HWS-805XWHT6-E HWS-1405XWHT9-E



OUTDOOR UNITS

HWS-455H-E HWS-1105H8-E
HWS-805H-E HWS-1405H8-E
HWS-1105H-E HWS-1605H8-E
HWS-1405H-E



REMOTE CONTROLS

HWS-AMS54E



DOMESTIC HOT WATER TANK

HWS-1501CSHM3-E
HWS-2101CSHM3-E
HWS-3001CSHM3-E

ESTIA SPLIT S5 Performance data - Single phase

Three phase

Outdoor unit	HWS-455H-E	HWS-805H-E	HWS-1105H-E	HWS-1405H-E	HWS-1105H8(R)-E	HWS-1405H8(R)-E	HWS-1605H8(R)-E
Hydro unit combination	HWS-455XWHM3-E	HWS-805XWH**E	HWS-1405XWH**E	HWS-1405XWH**E	HWS-1405XWH**E	HWS-1405XWH**E	HWS-1405XWH**E
Seasonal space heating energy efficiency Low Temperature							
Energy Efficiency Class - Low Temp	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency (ηs)	167%	161%	163%	159%	161%	157%	159%
SCOP	4.25	4.10	4.15	4.05	4.10	4.00	4.05
Under floor heating Air +7°C Water 35°C							
Max heating capacity kW	6.83	8.52	14.63	14.73	16.74	15.77	16.76
Nominal heating capacity kW	4.5	8	11.2	14	11.2	14	16
COP	4.9	4.46	4.88	4.5	4.8	4.44	4.3
Under floor heating Air -7°C Water 35°C							
Max heating capacity kW	4.48	5.74	9.67	10.79	9.50	10.64	11.25
Heating capacity ⁽¹⁾ kW	4.18	5.00	8.04	8.63	8.04	8.64	9.05
COP	3.01	2.7	2.78	2.62	2.79	2.76	2.67
Under floor heating Air -15°C Water 35°C							
Max heating capacity kW	3.61	4.47	7.52	8.34	7.29	8.16	8.63
Heating capacity ⁽¹⁾ kW	3.14	4.28	6.57	7.31	6.79	7.3	7.65
COP	2.45	2.68	2.5	2.47	2.63	2.6	2.52
Radiators heating Air +7°C Water 45°C							
Max heating capacity kW	6.42	8.13	13.62	13.93	14.26	15.07	15.77
Radiators heating Air -7°C Water 45°C							
Max heating capacity kW	4.37	5.55	9.16	9.17	9.59	10.12	10.64
Radiators heating Air -15°C Water 45°C							
Max heating capacity kW	2.84	4.31	7.12	7.37	7.03	7.75	8.15
Seasonal space heating energy efficiency Mid Temperature							
Energy Efficiency Class - Medium Temp	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency (ηs)	125%	127%	130%	129%	130%	129%	130%
SCOP	3.20	3.25	3.33	3.30	3.33	3.30	3.33
Radiators heating Air +7°C Water 55°C							
Max heating capacity kW	6.25	7.93	10.98	12.56	11.67	13.64	14.12
Radiators heating Air -7°C Water 55°C							
Max heating capacity kW	4.29	5.29	8.83	8.92	8.93	9.76	10.22
Nominal cooling capacity Air +35°C Water 7°C							
kW	4.5	6	10	11	10	11	13
EER	3.08	3.1	3.07	2.89	3.07	2.89	2.71

Max heating capacities are shown at peak value during operation, at max compressor operating range in accordance with EN14511
 Nominal heating capacity are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511
 (1) Heating capacity at -7°C are shown at max compressor operating frequency in accordance with EN14511
 Energy Efficiencies Class & Seasonal space heating energy efficiency (ηs) are provided for Average Climate conditions in accordance with EN14825

ESTIA SPLIT S5 Physical data outdoor - Single phase

Three phase

Outdoor unit	HWS-455H-E	HWS-805H-E	HWS-1105H-E	HWS-1405H-E	HWS-1105H8-E	HWS-1405H8-E	HWS-1605H8-E
Dimensions (HxWxD)	mm 630x800x300	890x900x320	1340x900x320	1340x900x320	1340x900x320	1340x900x320	1340x900x320
Weight	kg 42	63	92	92	93	93	93
Sound pressure Level (max)	dB(A) 48	49	49	51	49	51	52
Sound power level (max)	dB(A) 65	64	66	68	66	68	69
Sound pressure Level (night night)	dB(A) 44	TBC	TBC	TBC	TBC	TBC	TBC
Sound power level (night mode)	dB(A) 61	TBC	TBC	TBC	TBC	TBC	TBC
Compressor type	DC Twin rotary	DC Twin rotary	DC Twin rotary	DC Twin rotary	DC Twin rotary	DC Twin rotary	DC Twin rotary
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Flare connections (gas-liquid)	4/8" - 2/8"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"
Minimum pipe length	m 5	5	5	5	5	5	5
Maximum pipe length	m 15	30	30	30	30	30	30
Maximum height difference	m 10	30	30	30	30	30	30
Chargeless pipe length	m 15	30	30	30	30	30	30
Operating range in space heating*	°C -20~-25	-20~-25	-20~-25	-20~-25	-20~-25	-20~-25	-20~-25
Operating range Domestic hot water	°C -20~-43	-20~-43	-20~-43	-20~-43	-20~-43	-20~-43	-20~-43
Operating range in cooling	°C 10~43	10~43	10~43	10~43	10~43	10~43	10~43
Bottom tape heater power	W -	-	-	-	75	75	75
Power supply	V-ph-Hz 220/230-1-50	220/230-1-50	220/230-1-50	220/230-1-50	380/400-3N-50	380/400-3N-50	380/400-3N-50

* Depending on the conditions only back-up heater operates. ** Heater Operation in more than 35°C

ESTIA SPLIT S5 Physical data Hydro unit

Hydro unit	HWS-455XWHM3-E	HWS-805XWHM3-E	HWS-805XWHT6-E	HWS-805XWHT9-E	HWS-1405XWHM3-E	HWS-1405XWHT6-E	HWS-1405XWHT9-E
To be used with size	45	80	80	80	110-140-160	110-140-160	110-140-160
Electric back up heater capacity kW	3	3	6	9	3	6	9
Leaving water temperature space heating °C	20 ~ 55°C	20 ~ 55°C	20 ~ 55°C	20 ~ 55°C	20 ~ 55°C	20 ~ 55°C	20 ~ 55°C
Leaving water temperature space cooling °C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C
Dimensions (HxWxD)	mm 925x525x355	925x525x355	925x525x355	925x525x355	925x525x355	925x525x355	925x525x355
Weight Kg	49	49	49	49	52	52	52
Sound pressure level dB(A)	27	27	27	27	29	29	29
Electric back up heater supply	V-ph-Hz 220-230-1-50	220-230-1-50	380-400-3N-50	380-400-3N-50	220-230-1-50	380-400-3N-50	380-400-3N-50
Maximum current A	13	13	13 x 2	13 x 3	13	13 x 2	13 x 3

ESTIA SPLIT S5 Physical data Sanitary Hot Water tank

Domestic hot water tank	HWS-1501CSHM3-E	HWS-2101CSHM3-E	HWS-3001CSHM3-E
Water volume litres	150	210	300
Max water temperature °C	75	75	75
Qpr kW/24h	1.45	1.91	2.52
Thermal Insulation mm	PU50	PU50	PU50
Electric heater kW	2.75	2.75	2.75
Power supply V-ph-Hz	220/230-1-50	220/230-1-50	220/230-1-50
Height mm	1 090	1 474	2 040
Diameter mm	550	550	550
Weight Kg	31	41	60
Material	Stainless steel	Stainless steel	Stainless steel

ACCESSORIES

Model Name	Functions
TCB-PCIN3E	Boiler operation output signal. Alarm output signal. Defrost output signal. Compressor operation output signal
TCB-PCMO3E	Room thermostat input. Emergency stop input
HWS-AMS54E	Wired Remote controller(sub)