



HWS-(P)_XWH

ESTIA SPLIT S5 POWERFULL



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 175% 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 also compatible with latest generations of connected thermostat.

COP MAX



4.88

CAPACITY



16kW >18kW

OPERATION



-25°C > +43°C

HOT WATER



+40°C > +75°C

Best in class performances:

- Max COP 4.88 @+7°C & COP 2.67 @-7°C air temperature
- Maintain rated capacity down to -15°C
- Heating Operation down to -25°C
- Domestic sanitary hot water +40°C to +75°C
- Master/Slave group control up to 8 units



R410A
with TOSHIBA



INDOOR UNITS

HWS-P805XWHM3-E HWS-P1105XWHM3-E
HWS-P805XWHT6-E HWS-P1105XWHT6-E
HWS-P805XWHT9-E HWS-P1105XWHT9-E



OUTDOOR UNITS

HWS-P805HR-E
HWS-P1105HR-E



REMOTE CONTROLS

HWS-AMS54E



HOT WATER TANK

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

ESTIA SPLIT S5 POWERFULL Performance data - Extreme Single phase

| Outdoor unit | | HWS-P805HR-E | HWS-P1105HR-E |
|--|-----|------------------|-------------------|
| Hydro unit combination | | HWS-P805XWH** -E | HWS-P1105XWH** -E |
| Seasonal space heating energy efficiency Low Temperature | | | |
| Energy Efficiency Class - Low Temp | | A++ | A++ |
| Seasonal space heating energy efficiency (η _s) | | 157% | 175% |
| SCOP | | 4.00 | 4.45 |
| Under floor heating Air +7°C Water 35°C | | | |
| Max heating capacity | kW | 16.92 | 18.05 |
| Nominal heating capacity | kW | 8.00 | 11.20 |
| COP | W/W | 4.76 | 4.88 |
| Under floor heating Air -7°C Water 35°C | | | |
| Max heating capacity | kW | 11.92 | 12.79 |
| Heating capacity ⁽¹⁾ | kW | 9.38 | 9.74 |
| COP | W/W | 2.67 | 2.64 |
| Under floor heating Air -15°C Water 35°C | | | |
| Max heating capacity | kW | 9.37 | 11.23 |
| Heating capacity ⁽¹⁾ | kW | 7.26 | 8.06 |
| COP | W/W | 2.18 | 2.18 |
| Radiators heating Air +7°C Water 45°C | | | |
| Max heating capacity | kW | 14.00 | 14.74 |
| Radiators heating Air -7°C Water 45°C | | | |
| Max heating capacity | kW | 10.16 | 10.61 |
| Radiators heating Air -15°C Water 45°C | | | |
| Max heating capacity | kW | 8.04 | 8.13 |
| Radiators heating Air -20°C Water 45°C | | | |
| Max heating capacity | kW | 6.72 | 7.64 |
| Seasonal space heating energy efficiency Mid Temperature | | | |
| Energy Efficiency Class - Medium Temp | | A++ | A++ |
| Seasonal space heating energy efficiency (η _s) | | 125% | 131% |
| SCOP | | 3.20 | 3.35 |
| Radiators heating Air +7°C Water 55°C | | | |
| Max heating capacity | kW | 11.08 | 11.43 |
| Radiators heating Air -7°C Water 55°C | | | |
| Max heating capacity | kW | 8.40 | 8.42 |
| Nominal cooling capacity Air +35°C Water 7°C | kW | 6.0 | 10.0 |
| EER | W/W | 3.66 | 3.00 |

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 (η_s) are provided for Average Climate conditions in accordance with EN14825

ESTIA SPLIT S5 POWERFULL Physical data outdoor - Extreme Single phase

| Outdoor unit | | HWS-P805HR-E | HWS-P1105HR-E |
|------------------------------------|---------|----------------|----------------|
| Dimensions (HxWxD) | mm | 1340x900x320 | 1340x900x320 |
| Weight | kg | 92 | 92 |
| Sound pressure Level (max) | dB(A) | 49 | 49 |
| Sound power level (max) | dB(A) | 66 | 66 |
| Sound pressure Level (night night) | dB(A) | TBC | TBC |
| Sound power level (night mode) | dB(A) | TBC | TBC |
| Compressor type | | DC Twin rotary | DC Twin rotary |
| Refrigerant | | R410A | R410A |
| Flare connections (gas-liquid) | | 5/8" - 3/8" | 5/8" - 3/8" |
| Minimum pipe length | m | 5 | 5 |
| Maximum pipe length | m | 30 | 30 |
| Maximum height difference | m | 30 | 30 |
| Chargeless pipe length | m | 30 | 30 |
| Operating range in space heating* | °C | -25~25 | -25~25 |
| Operating range Domestic hot water | °C | -25~43** | -25~43** |
| Operating range in cooling | °C | 10~43 | 10~43 |
| Bottom tape heater power | W | 75 | 75 |
| Power supply | V-ph-Hz | 220/230-1-50 | 220/230-1-50 |

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

ESTIA SPLIT S5 POWERFULL Physical data Hydro unit

| Hydro unit | | HWS-P805XWHM3-E | HWS-P805XWHT6-E | HWS-P805XWHT9-E | HWS-P1105XWHM3-E | HWS-P1105XWHT6-E | HWS-P1105XWHT9-E |
|-----------------------------------|---------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| To be used with size | | 80 | 80 | 80 | 110 | 110 | 110 |
| Leaving water temperature heating | °C | 20 ~ 60°C | 20 ~ 60°C | 20 ~ 60°C | 20 ~ 60°C | 20 ~ 60°C | 20 ~ 60°C |
| Leaving water temperature cooling | °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 |
| Weight | kg | 49** | 49** | 49** | 52** | 52** | 52** |
| Sound pressure level | dB(A) | 27 | 27 | 27 | 29 | 29 | 29 |
| Electric back up heater capacity | kW | 3 | 6 | 9 | 3 | 6 | 9 |
| Electric back up heater supply | V-ph-Hz | 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 x 2 | 13 x 3 | 13 | 13 x 2 | 13 x 3 |

ESTIA SPLIT S5 POWERFULL 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/24 h | 1.45 | 1.91 | 2.52 |
| Thermal Insolation | 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 | Description | Functions |
|------------|-------------------|---|
| TCB-PCIN3E | Output signal PCB | Boiler operation output signal. Alarm output signal. Defrost output signal. Compressor operation output signal |
| TCB-PCMO3E | Input signal PCB | Room thermostat input. Emergency stop input |
| HWS-AMS54E | Wired RC | Wired Remote controller(sub) |