# **TOSHIBA** Leading Innovation >>>

## **Toshiba Air Conditioning - Estia Split Data Sheet**

### HWS-455XWHM3-E Estia Split - Air-to-Water Heat Pump

#### **Features**

- High energy efficiency providing enhanced energy savings
- Quick and easy to install
- Large screen remote controller simple, intuitive and easy to use
- Best in class performances

#### Hvdro Unit Performance Data

Hydro unit combination		HWS-455XWHM3-E	
Outdoor unit		HWS-455H-E	
Seasonal space heating energy efficiency low temperature			
Energy efficiency class - low temperature		A++	
Seasonal space heating energy efficiency (ns)	%	167	
SCOP		4.25	
Under floor heating - air 7°C, water 35°C			
Maximum heating capacity	kW	6.83	
Nominal heating capacity	kW	4.50	
COP	W/W	4.90	
Under floor heating - air -7°C, water 35°C			
Maximum heating capacity	kW	4.48	
Heating capacity*	kW	4.18	
COP	W/W	3.01	
Under floor heating - air -15°C, water 35°C			
Maximum heating capacity	kW	3.61	
Heating capacity*	kW	3.14	
COP	W/W	2.45	
Radiators heating - air 7°C, water 45°C			
Maximum heating capacity	kW	6.42	
Radiators heating - air -7°C, water 45°C			
Maximum heating capacity	kW	4.37	
Radiators heating - air -15°C, water 45°C			
Maximum heating capacity	kW	2.84	
Seasonal space heating energy efficiency mid	tempe	rature	
Energy efficiency class - medium temperature		A++	
Seasonal space heating energy efficiency (ŋs)	%	125	
SCOP		3.20	
Radiators heating - air 7°C, water 55°C			
Maximum heating capacity	kW	6.25	
Radiators heating - air -7°C, water 55°C			
Maximum heating capacity	kW	4.29	
Nominal cooling capacity -air 35°C, water 7°C	kW	4.50	
EER	W/W	3.08	

#### Hydro Unit Physical Data

Hydro unit		HWS-455XWHM3-E	
To be used with size		45	
Electric back-up heater capacity	kW	3.0	
Leaving water temperature space heating	°C	20-55	
Leaving water temperature space cooling	°C	7-25	
Dimensions (H x W x D)	mm	925 x 525 x 355	
Weight	kg	49	
Sound pressure level	dB(A)	27	
Electric back-up heater supply	V-ph-Hz	220/230-1-50	
Maximum current	A	13.0	

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Maximum heating capacities are shown at peak value during operation, at maximum compressor operating range in accordance with EN14511.

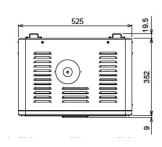
Nominal heating capacities are given at water delta T 5 K and rated compressor operating frequency in accordance with EN14511.

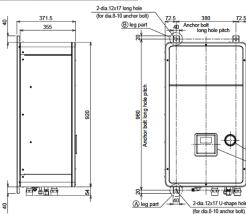
Heating capacities at  $-7^{\circ}C$  are shown at maximum compressor operating frequency in accordance with EN14511.

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Energy efficiency class and Seasonal space heating energy efficiency (ns) are provided for average climate conditions in accordance with EN14825.

#### **Dimensional Drawings**





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