

HWT-HW
ESTIA SPLIT R32 – ALL-IN-ONE



ESTIA R32 All-In-One air-to-water reversible Heat Pumps provide space heating or comfort cooling throughout the year, with an integrated 210L Domestic Hot Water cylinder. They are ideal for new constructions and renovation.

High energy efficiency for superior energy savings

- A+++/A++ energy class in space heating low & medium temperature with part load efficiency η_s up to 183%.
- A+ energy class in domestic hot water production with part load efficiency η_s dhw up to 136%.

Silent operation

- Silent outdoor unit down to 32dB(A) at 5m: No noise pollution for the neighborhoods.
- Silent indoor unit only 30 dB(A) at 1m.

Easy to install, easy to control

- Very compact outdoor unit (1 fan technology).
- Floor standing All-In-One hydro module 600x670mm footprint for easy integration.
- Second-zone kit factory fitted for easy management of two different leaving water temperatures (under floor heating & radiators).
- All components accessible on the facade: simplified access for installation and maintenance.
- Large screen remote controller, intuitive and easy to use.
- Power consumption display.
- Compatible with the latest generations of connected thermostats.
- Remote control via smartphones: Wireless interface option compatible with the Toshiba Home AC Control App.

COP MAX 5.20	CAPACITY 4kW > 11kW	OPERATION -25°C > +43°C	HOT WATER +20°C > +65°C
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Best in class performances:

> **Toshiba Twin Rotary compressors** & inverter technology, with injection technology on sizes 8 & 11kW

> **65°C maximum leaving water temperature** ideal for renovation and boiler replacement

> **COP Domestic Hot Water up to 3.21** (EN16147)

> Heat pump operation for **DHW production up to +43°C outside air temperature** to maximize energy savings

> **Back-up heaters** 3kW or 6kW or 9kW



ESTiA



INDOOR UNITS

- HWT-601F21SM3W-E
- HWT-601F21ST6W-E
- HWT-1101F21SM3W-E
- HWT-1101F21ST6W-E



OUTDOOR UNITS

- HWT-401HW-E
- HWT-601HW-E



- HWT-801H(R)W-E
- HWT-1105H(R)W-E



REMOTE CONTROLS

- HWS-AMSU51-E

ESTIA SPLIT R32 – ALL-IN-ONE

RESIDENTIAL AIR TO WATER

ESTIA SPLIT R32 – ALL-IN-ONE Performance data **PRELIMINARY DATA**

Outdoor unit				HWT-	401HW-E	601HW-E	801H(R)W-E	801H(R)W-E	1105H(R)W-E	1105H(R)W-E
Hydro unit combination		Air T°	Water T°	HWT-	601F21S**W-E	601F21S**W-E	1101F21S**W-E	1101F21M**W-E	1101F21S**W-E	1101F21M**W-E
Under floor heating	Max heating capacity	+7°C	35°C	kW	H	7.25	7.25	11.90	11.90	13.24
	Nominal heating capacity (rated)	+7°C	35°C	kW	H	4.00	6.00	8.00	8.00	11.00
	COP (rated)	+7°C	35°C	W/W	H	5.20	4.80	5.19	5.19	4.60
	Energy Efficiency Class - Average Climate - Low LWT		35°C		H	A+++	A+++		A+++	A+++
	ETAs h (ηs) - Average Climate - Low LWT		35°C		H	178	180	182	182	179
	SCOP - Average Climate - Low LWT		35°C		H	4.53	4.58		4.63	4.55
	Max heating capacity	-7°C	35°C	kW	H	4.8	6.06	8.11	8.11	9.10
	Heating capacity (1)	-7°C	35°C	kW	H	4.25	5.26	7.21	7.21	7.95
	COP (1)	-7°C	35°C	W/W	H	3.06	2.97	2.70	2.70	2.54
	Max heating capacity	-10°C	35°C	kW	H	4.40	5.57	7.49	7.49	8.45
	Max heating capacity	-15°C	35°C	kW	H	3.73	4.75	6.46	6.46	7.37
	Heating capacity (1)	-15°C	35°C	kW	H	3.43	4.39	5.96	5.96	6.77
COP (1)	-15°C	35°C	W/W	H	2.54	2.56	2.40	2.40	2.27	
Radiators heating & DHW	Energy Efficiency Class - Average Climate - Medium LWT		55°C			A++	A++		A++	A++
	ETAs h (ηs) - Average Climate - Medium LWT		55°C			135	132	142	142	142
	SCOP - Average Climate - Medium LWT		55°C			3.45	3.37		3.63	3.62
	Max heating capacity	+7°C	45°C	kW	H	6.97	6.97	11.75	11.75	12.41
	Max heating capacity	-7°C	45°C	kW	H	4.48	5.8	8.00	8.00	8.44
	Max heating capacity	-15°C	45°C	kW	H	3.37	4.03	6.54	6.54	7.52
	Max heating capacity	+7°C	55°C	kW	H	6.51	7.53	9.96	9.96	10.17
	Max heating capacity	-7°C	55°C	kW	H	4.31	5.42	7.35	7.35	7.72
	Max heating capacity	-10°C	55°C	kW	H	-	-	7.00	7.00	7.38
	Max heating capacity	-15°C	55°C	kW	H	-	-	6.41	6.41	6.81
	Cooling capacity nominal	35°C	7/12°C	kW	C	4.00	5.00	6.00	6.00	8.00
	EER nominal			W/W	C	3.45	3.3	3.2	3.2	2.8
Cooling capacity	35°C	18/23°C	kW	C	6.34	7.12	8.85	8.85	10.26	
EER			W/W	C	4.37	3.91	3.86	3.86	3.35	

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 R32 – ALL-IN-ONE Physical data outdoor

Outdoor unit		HWT-	401HW-E	601HW-E	801HW-E	1105HW-E	801HRW-E	1101HRW-E
Dimensions (HxWxD)	mm		630 x 800 x 300			1050 x 1010 x 370		
Weight	kg		42			75		
Sound power level (Rated) H/C	dB(A)		59/60	62/61	63/62	64/62	63/62	64/62
Sound power level (Silent Mode) H/C	dB(A)		54/55	58/57	58/59	62/60	58/59	62/60
Sound pressure level (Rated) H/C at 1m (1)	dB(A)		45/46	46/45	51/50	51/49	51/50	51/49
Sound pressure level (Silent Mode) H/C et 1m (1)	dB(A)		40/41	42/41	46/47	49/47	46/47	49/47
Sound pressure level (Rated) H/C at 5m (2)	dB(A)		37/38	40/39	41/40	42/40	41/40	42/40
Sound pressure level (Silent Mode) H/C at 5m (2)	dB(A)		32/33	36/35	36/37	40/38	36/37	40/38
Compressor type			DC Twin rotary			DC Twin rotary w/injection		
Refrigerant / Charge amount (kg)			R32 / 0.9			R32 / 1.25		
Flare connections (gas-liquid)			4/8" - 2/8"			5/8" - 2/8"		
Minimum pipe length	m		5			5		
Maximum pipe length (with Ref. charge)	m		30			30		
Maximum height difference	m		30			30		
Chargeless pipe length	m		20			8		
Operating range in space heating*	°C		-20 ~ 25			-25 ~ 25		
Operating range Domestic hot water	°C		-20 ~ 43			-25 ~ 43		
Operating range in cooling	°C		10 ~ 43			10 ~ 43		
Bottom plate heater power	W				-		75	
Power supply	V-ph-Hz					220/230-1-50		

* Depending on the conditions only back-up heater operates.
 ** Heater Operation in more than 35oC.
 (1) Noise pressure levels EN 12102 at 1m, open field directivity 2.
 (2) Noise pressure levels EN 12102 at 5m, open field directivity 2.

ESTIA SPLIT R32 – ALL-IN-ONE Physical data Hydro unit

Hydro unit		HWT-	601F21SM3W-E	601F21ST6W-E	1101F21SM3W-E	1101F21ST6W-E	1101F21ST9W-E	1101F21MM3W-E	1101F21MT6W-E	1101F21MT9W-E
Outdoor unit		HWT-	401 & 601				801 & 1101			
Dimensions (HxWxD)	mm						1700 x 600 x 670			
Load Profile			L				XL			
DHW Energy Efficiency Class			A+				A+			
DHW ETA_{WH} (1_{WH}) - Average Climate	%		136				130			
COP at Air7°C (EN16147)			3.21				3.12			
Heating time	Hrs		01h36				01h05			
Leaving water temperature (without electrical heater)	°C	H	20 ~ 55°C				20 ~ 65°C			
Maximum leaving water temperature (with electrical heater)	°C	H	20 ~ 55°C				20 ~ 65°C			
Leaving water temperature (cooling)	°C	C					7 ~ 25°C			
Tank	Water volume	L					210			
	Material						Enamelled			
	Maximum water pressure	bar					6			
Expansion vessel volume	L						10			
2 zone operation							Available			
Weight	Kg		157				162			
Sound power level	dB(A)		42				44			
Sound pressure level at 1m	dB(A)		30				32			
Electric back up heater capacity	kW		3.0	6.0	3.0	6.0	9.0	3.0	6.0	9.0
Electric back up heater supply	V-ph-Hz		220 ~ 230-1-50	380 ~ 400-3N-50	220 ~ 230-1-50	380 ~ 400-3N-50	220 ~ 230-1-50	380 ~ 400-3N-50	220 ~ 230-1-50	380 ~ 400-3N-50
Maximum current	A		13	13 x 2	13	13 x 2	13 x 3	13	13 x 2	13 x 3

HWT-HW
ESTIA SPLIT R32 – WALL MOUNTED



ESTIA R32 wall-mounted air-to-water reversible Heat Pumps provide space heating or comfort cooling throughout the year. They are ideal for new constructions and renovation. They can be combined with a separated tank for domestic hot water production (150, 200 and 300L).

High energy efficiency for superior energy savings

- A+++/A++ energy class in space heating low & medium temperature with part load efficiency ηs up to 183%.
- A+/A energy class in domestic hot water production with part load efficiency ηs dhw up to 122%.

Silent operation

- Silent outdoor unit down to 32dB(A) at 5m: No noise pollution for the neighborhoods.
- Silent indoor unit only 28 dB(A) at 1m.

Easy to install, easy to control

- Very compact outdoor unit (1 fan technology).
- The most compact wall-mounted hydro module on the market for easy integration.
- All components accessible on the facade: Simplified access for installation and maintenance.
- Possible management of a second water pump for 2 zones.
- Large screen remote controller, intuitive and easy to use.
- Power consumption display.
- Compatible with the latest generations of connected thermostats.
- Remote control via smartphones: Wireless interface option compatible with the Toshiba Home AC Control App.

COP MAX 5.20	CAPACITY 4kW > 11kW	OPERATION -25°C > +43°C	HOT WATER +20°C > +65°C
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Best in class performances:

- > **Toshiba Twin Rotary compressors** & inverter technology, with injection technology on sizes 8 & 11kW
- > **65°C maximum leaving water temperature** ideal for renovation and boiler replacement
- > **COP Domestic Hot Water up to 2.93** (EN16147)
- > Heat pump operation for **DHW production up to +43°C outside air temperature** to maximize energy savings
- > **Back-up heaters** 3kW or 6kW or 9kW



INDOOR UNITS

HWT-601XWHM3W-E
 HWT-601XWHT6W-E
 HWT-1101XWHM3W-E



OUTDOOR UNITS

HWT-401HW-E
 HWT-601HW-E
 HWT-801H(R)W-E
 HWT-1105H(R)W-E



REMOTE CONTROLS

HWS-AMSU51-E



DOMESTIC HOT WATER TANK

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

ESTIA SPLIT R32 – WALL MOUNTED

ESTIA SPLIT R32 – WALL MOUNTED Performance data PRELIMINARY DATA

Outdoor unit	Air T°	Water T°	HWT- HWT-	401HW-E 601XWH**W-E	601HW-E 601XWH**W-E	801H(R)W-E 1101XWH**W-E	1105H(R)W-E 1101XWH**W-E
Under floor heating	Max heating capacity			7.25	7.25	11.90	13.24
	Nominal heating capacity (rated)			4.00	6.00	8.00	11.00
	COP (rated)			5.2	4.8	5.19	4.6
	Energy Efficiency Class - Average Climate - Low LWT			A+++	A+++	A+++	A+++
	ETAs h (ηs) - Average Climate - Low LWT			178	180	182	179
	SCOP - Average Climate - Low LWT			4.53	4.58	4.63	4.55
	Max heating capacity			4.80	6.06	8.11	9.10
	Heating capacity (1)			4.25	5.26	7.21	7.95
	COP (1)			3.06	2.97	2.70	2.54
	Max heating capacity			4.4	5.57	7.49	8.45
Radiators heating & DHW	Max heating capacity			4.80	6.06	8.11	9.10
	Heating capacity (1)			4.25	5.26	7.21	7.95
	COP (1)			3.06	2.97	2.70	2.54
	Max heating capacity			4.4	5.57	7.49	8.45
	Max heating capacity			3.73	4.75	6.46	7.37
	Heating capacity (1)			3.43	4.39	5.96	6.77
	COP (1)			2.54	2.56	2.40	2.27
	Energy Efficiency Class - Average Climate - Medium LWT			A++	A++	A++	A++
	ETAs h (ηs) - Average Climate - Medium LWT			135	132	142	142
	SCOP - Average Climate - Medium LWT			3.45	3.37	3.63	3.62
Cooling	Max heating capacity			6.97	6.97	11.75	12.41
	Max heating capacity			4.48	5.80	8.00	8.44
	Max heating capacity			3.37	4.03	6.54	7.52
	Max heating capacity			6.51	7.53	9.96	10.17
	Max heating capacity			4.31	5.42	7.35	7.72
	Max heating capacity			-	-	7.00	7.38
	Max heating capacity			-	-	6.41	6.81
	Cooling capacity nominal			4.00	5.00	6.00	8.00
	EER nominal			3.45	3.3	3.2	2.8
	Cooling capacity			6.34	7.12	8.85	10.26
EER			4.37	3.91	3.86	3.35	

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 R32 – WALL MOUNTED Physical data outdoor

Outdoor unit	HWT- HWT-	401HW-E 630 x 800 x 300	601HW-E 630 x 800 x 300	801HW-E 1050 x 1010 x 370	1101HW-E 1050 x 1010 x 370	801HRW-E 1050 x 1010 x 370	1101HRW-E 1050 x 1010 x 370
Dimensions (HxWxD)	mm	630 x 800 x 300		1050 x 1010 x 370		1050 x 1010 x 370	
Weight	kg	42		75		75	
Sound power level (Silent Mode) H/C	dB(A)	54/55	58/57	58/59	62/60	58/59	62/60
Sound pressure level (Rated) H/C at 1m (1)	dB(A)	45/46	46/45	51/50	51/49	51/50	51/49
Sound pressure level (Silent Mode) H/C at 1m (1)	dB(A)	40/41	42/41	46/47	49/47	46/47	49/47
Sound pressure level (Rated) H/C at 5m (2)	dB(A)	37/38	40/39	41/40	42/40	41/40	42/40
Sound pressure level (Silent Mode) H/C at 5m (2)	dB(A)	32/33	36/35	36/37	40/38	36/37	40/38
Compressor type		DC Twin rotary		DC Twin rotary w/injection			
Refrigerant / Charge amount (kg)		R32 / 0.9		R32 / 1.25			
Flare connections (gas-liquid)		4/8" - 2/8"		5/8" - 2/8"			
Minimum pipe length	m	5		5			
Maximum pipe length (with Ref. charge)	m	30		30			
Maximum height difference	m	30		30			
Chargeless pipe length	m	20		8			
Operating range in space heating*	°C	-20 ~ 25		-25 ~ 25			
Operating range Domestic hot water	°C	-20 ~ 43		-25 ~ 43			
Operating range in cooling	°C			10 - 43			
Bottom tape heater power	W			75			
Power supply	V-ph-Hz			220/240-1-50			

* Depending on the conditions only back-up heater operates. ** Heater Operation in more than 35°C. (1) Noise pressure levels EN 12102 at 1m, open field directivity 2. (2) Noise pressure levels EN 12102 at 5m, open field directivity 2.

ESTIA SPLIT R32 – WALL MOUNTED Physical data Hydro unit

Hydro unit	HWT- HWT-	601XWHM3W-E 401 & 601	601XWHT6W-E 401 & 601	1101XWHM3W-E 801 & 1101	1101XWHT6W-E 801 & 1101	1101XWHT9W-E 801 & 1101
Leaving water temperature (without electrical heater)	°C	20 ~ 55°C		20 ~ 65°C		
Maximum leaving water temperature (with electrical heater)	°C	55		65		
Leaving water temperature (cooling)	°C	C		7 ~ 25°C		
Dimensions (HxWxD)	mm	725 x 450 x 235				
Weight	Kg	27				
Sound power level	dB(A)	40				
Sound pressure level at 1m	dB(A)	28				
Electric back up heater capacity	kW	3.0		6.0		9.0
Electric back up heater supply	V-ph-Hz	220-240-1-50		380-415-3N-50		380-415-3N-50
Maximum current	A	13		13 x 2		13 x 3

ESTIA SPLIT R32 – WALL MOUNTED Physical data Sanitary Hot Water tank

Domestic hot water tank	HWS- HWT-	1501CSHM3-E 401 & 601	2101CSHM3-E 801 & 1101	3001CSHM3-E 401 & 601	801 & 1101
Water volume	litres	150		300	
Load Profile		L		XL	
DHW Energy Efficiency Class		A+	A+	A	A
DHW ETA _{WH} (η _{WH}) - Average Climate	%	120	115	115	122
COP at Air7°C (EN16147)		2,87	2,72	2,72	2,93
Material		Stainless steel			
Maximum water pressure	bar	6			
Max water temperature	°C	75			
Electric heater	kW	2.7			
Power supply	V-ph-Hz	220/240-1-50			
Height	mm	1 090		1 474	
Diameter	mm			550	
Weight	Kg	31		41	