

TOSHIBA



ESTIA

Air-to-Water heat pump

The warmth of the future.



ESTIA

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ESTIA PRODUCT OVERVIEW



TOSHIBA

EFFICIENT HEATING
WITH AN AIR-TO-WATER
HEAT PUMP

HEATING WITH HEAT FROM THE AIR – ENVIRONMENTALLY FRIENDLY, COST-EFFECTIVE, AND EFFICIENT.

The ESTIA air-to-water heat pump is extremely efficient and provides cost-effective heating, hot water preparation, and cooling in your home. It uses the outdoor air as an energy source, making it extremely environmentally friendly.

100% ENERGY FROM THE AIR

Rather than generating the hot water you need for bathing or heating using fuels (oil, pellets, wood, gas, etc.) or 100% electricity, all of the energy used comes from the air and simply requires a small amount of electrical energy to run the pump (depending on the outdoor air temperature).



Domestic Hot Water



Heating with radiators



Underfloor heating



THE COMPONENTS

The ESTIA air-to-water heat pump consists of an outdoor unit and an indoor unit. This is designed either as a compact Hydrobox or as an all-in-one unit with integrated hot water tank. All applications such as radiators, the underfloor heating, or an external hot water tank are supplied via the indoor unit.



1 The outdoor unit

Via compressor and air heat exchanger, the thermal energy is obtained from the outdoor air and transferred to the Hydrobox in the house.

2 The Hydrobox

In the Hydrobox, the heat is transferred with minimal heat loss from the refrigerant to the water system via a plate heat exchanger.

4 The hot water tank

This is where the hot water is stored before use. The insulated boiler is made from stainless steel, which is both lightweight and very durable.

3 The All-in-One

The All-in-One indoor unit combines the Hydrobox with a hot water tank, making it especially space-saving. Despite its compact structure, the All-in-One model has a 210 liter stainless steel hot water tank and can supply heat to one or two zones, depending on the model.

5 The control unit

The control panel is located on the Hydrobox and controls all the functions. There is an optional external room remote control with temperature sensor available. You can also equip your ESTIA with a WiFi module. Now you can control your ESTIA R32 from anywhere using the TOSHIBA AC Control app.

Saving money with **ESTiA**

*The air-to-water heat pump combines the benefit of **low acquisition costs** with **low operating costs**, and makes efficient use of renewable energies. Offering considerable versatility, it can be used for heating or preparing domestic hot water in new or renovated buildings when combined with radiators, underfloor heating, wall heating, or as ancillary pool heating. It can be used to regulate the temperature of rooms in the summer. Active cooling is possible via fancoils, for example.*

GOOD REASONS FOR CHOOSING AN ESTIA AIR-TO-WATER HEAT PUMP

Energy and cost-efficient

An air-to-water heat pump uses the free energy from the surrounding air to achieve high temperature values with low operating costs.

With its low electricity consumption, the heat pump is a cost-effective and efficient heating system both to purchase and in terms of ongoing operation.



Combination with solar/ photovoltaic systems

ESTIA air-to-water heat pumps can be combined with solar and PV systems, making your heating or cooling even more environmentally-friendly and cost-effective.



CO₂-neutral & not dependent on fossil fuels

Use of the air as an energy source is CO₂-neutral and causes no emissions, so it is independent of fossil fuels such as oil and gas.



WARRANTY, SAFETY, AND RELIABILITY



Reliable

ESTIA units are characterized by reliability and durability. In heating mode, they run reliably and efficiently in outdoor temperatures **down to -25°C**.

ESTIA was launched on the market in 2009; we know that there are still many of the first series or units in operation.

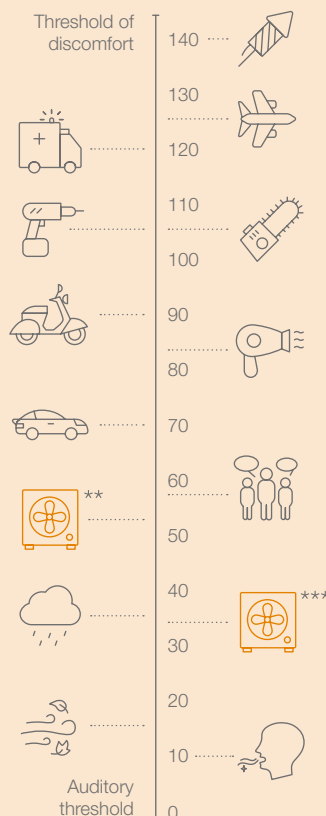


An ESTIA is so quiet

An ESTIA heat pump is quiet – as shown by the sound pressure level, which describes the volume that we perceive. At a distance of just a few meters, an ESTIA outdoor unit barely reaches 30 dB(A). This is equivalent to a person whispering or the sound level inside a library – much to the delight of neighbors, municipal authorities, and the environment.

A trained specialist partner will be happy to advise you, and together you can find the best location for installing your new ESTIA.

SOUND PRESSURE LEVEL dB(A)*



* The data provided is for guidance only

** ESTIA measured at a distance of 1 m

*** ESTIA measured at a distance of 5 m



Convenient control options

The unit can be controlled conveniently from its own control panel, by using a remote control in the living area, or as a mobile option using the smartphone app.

INTEGRATED CONTROL UNIT

The clear icons on the integrated control unit make the entire system very simple to operate: water temperature for two heating zones and domestic hot water, nighttime operation, timer programs, silent function, and much more. All displays and settings are accessible at the touch of a button.



ROOM REMOTE CONTROL

To operate the heat pump from the living room, the external additional remote control is used. This is an exact copy of the integrated control unit and allows settings to be conveniently made from the living room.





App control for ESTIA R32



The **TOSHIBA Home AC Control app** allows users to easily take control of their own living environment. Water temperatures, special functions such as silent mode, frost protection, and hot water boost

can be easily controlled by smartphone. The **Energy Monitoring** for ESTIA R32 also provides a complete overview of energy consumption.



Time programs



Cooling



Heating



Hot water



With **ESTIA Energy Monitoring** you will not miss out on any necessary kWh from your unit. As well as unbeatable efficiency, you will also benefit from maximum comfort while keeping an eye on your actual heating costs at all times.

*Transparency and comfort
in the same app.*





Reliable comfort guaranteed

5 years **warranty**
compressors

TOSHIBA represents outstanding quality, as demonstrated by the excellent levels of efficiency. For the ESTIA, TOSHIBA offers a 5-year warranty for the unit's key component – the compressor.

5-YEAR COMPRESSOR WARRANTY

You automatically receive a 5-year warranty on the ESTIA compressor.

EXTENDED WARRANTY

An extended warranty of 4 or 5 years is also possible for all other components.

ACCESSORIES

ESTIA

TYPE / DESCRIPTION



HWS-AMSU51-E
External control unit (wired)



HWS-IFAIP01U-E
0-10 volt interface, for external control via 0-10 volt signals



HWS-IWF0010UP-E
ESTIA R32 WiFi Adapter



95612037
Temperature sensor for locally provided hot water tank



BMS-IFKX0UEW-E
KNX® interface, integration in building control systems, group control for up to 8 units (R32)

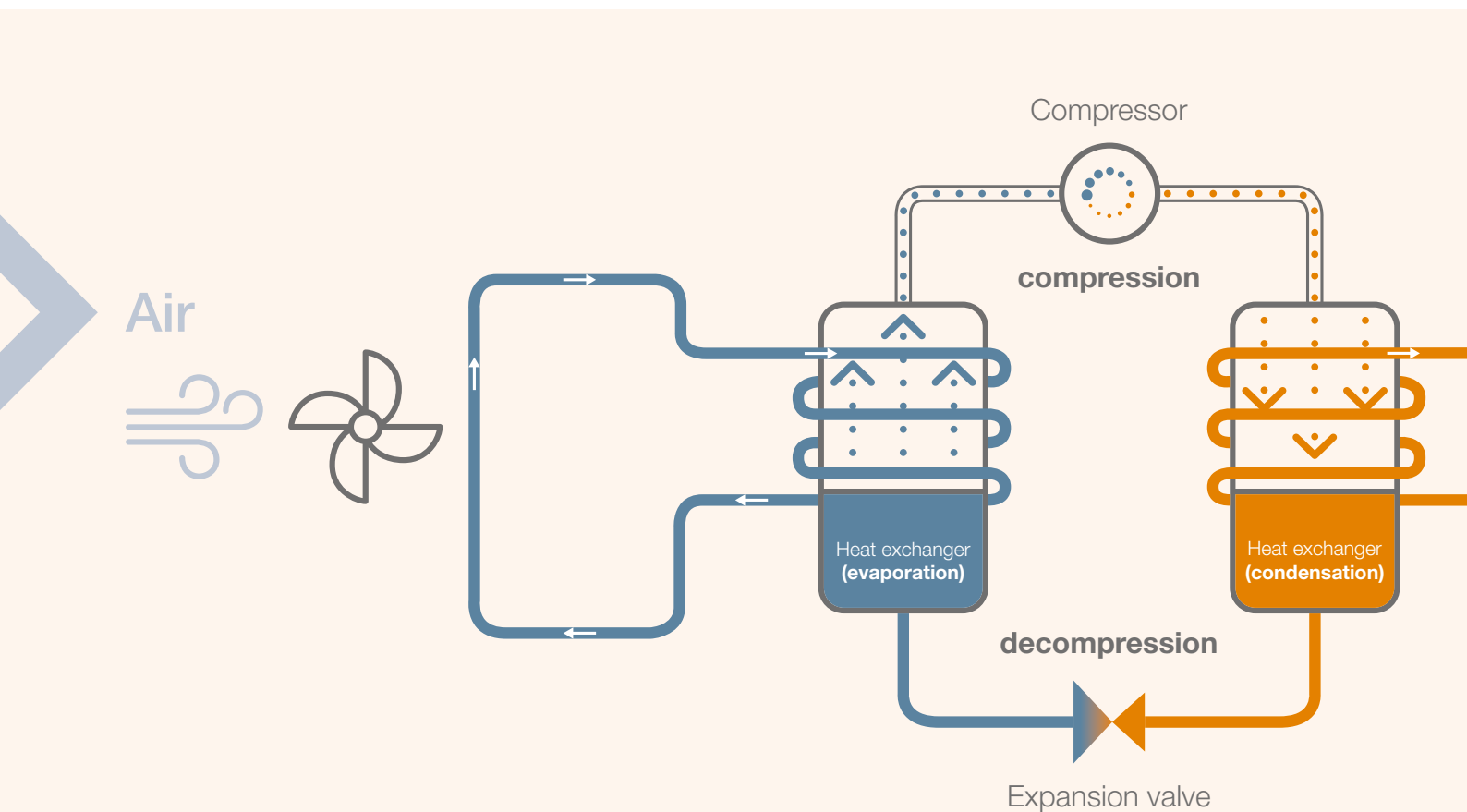


BMS-IFMB0UEW-E
Modbus interface, integration in building control systems, group control for up to 8 units



HWS-CPR01W-E
Circulation pipe option-kit for All-in-One indoor unit

HOW DOES AN AIR-TO-WATER HEAT PUMP WORK?



The refrigerant circulating around the system transfers and transports the heat.



In the evaporator (outdoor unit), the liquid refrigerant changes its state, and stores the energy absorbed in so doing.

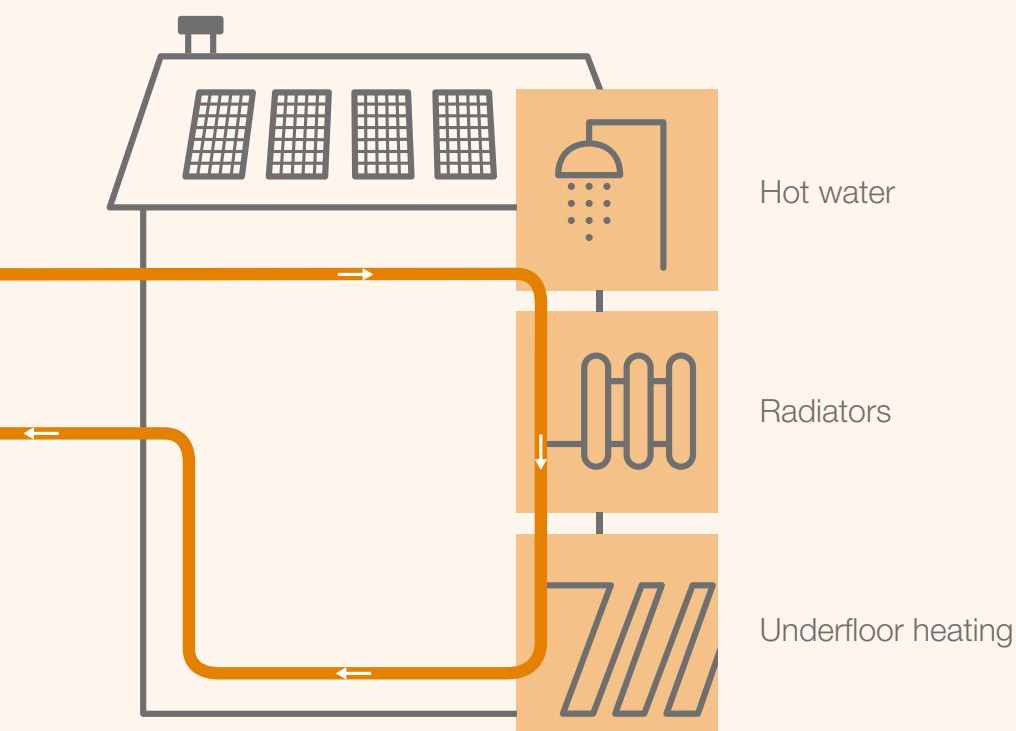


The compressor brings the refrigerant to a high pressure and temperature level.

The ESTIA air-to-water heat pump recovers energy from the air and transfers it to the heating system. This job is carried out by an environmentally-friendly refrigerant and an efficient compressor. The heat generated during this process is transferred to the water pipe system via

a heat exchanger. The domestic hot water and heating water are thus heated to the required temperature.

This energy-saving system works efficiently **down to frosty outdoor temperatures of -25°C.**



100%
ENERGY FROM THE AIR

On average, the air-to-water heat pump heats with energy from the air and electrical energy in a ratio of 4:1. This means that **1 kWh electricity yields on average 4 kWh heating capacity.**

It is a space-saving, efficient, and sustainable system compared to conventional heating systems.

➤ The refrigerant is now very hot; it reaches the condenser (indoor unit) which is a heat exchanger in which the heat obtained from the environment is transferred to the water.

➤ After cooling, the refrigerant returns to the liquid state and can once again absorb heat from the environment due to the pressure and temperature reduction caused by the expansion valve. And so the cycle begins again.

ESTIA IN SINGLE-FAMILY HOMES

1 PHOTOVOLTAIC/SOLAR

A photovoltaic (PV)/solar system can be incorporated without complications using a smart grid. This makes heating and cooling even more environmentally friendly and cost-effective.

2 OUTDOOR UNIT

In the outdoor unit, the energy is obtained from the outdoor air with the aid of a heat exchanger, compressor, and refrigerant. It is then transferred to the indoor unit.

3 HYDROBOX

The Hydrobox transfers the thermal energy from the refrigerant to the water system in the house.

4 BUFFER TANK

Incorporating a buffer tank can reduce your costs even further; it also has a number of technical benefits. Contact your ESTIA partner to find out more.

5 EXISTING RADIATORS

Existing radiators can continue to be used. A supply water temperature of up to 65°C is possible in combination with radiators.

6 UNDERFLOOR HEATING

Combined with underfloor heating, the ESTIA system delivers water for heating at a lower supply water temperature.

7 CONSTANT HOT WATER

ESTIA is guaranteed to always supply sufficient domestic hot water in outdoor air temperatures down to -25°C.

8 ROOM REMOTE CONTROL

The control panel is located on the Hydrobox and controls all the functions. An optional external room remote control is available.

9 STORAGE BATTERY

The photovoltaic battery stores the energy from the sun and outputs it to the devices to be supplied with electricity as required.

Your ESTIA R32 system can also be conveniently controlled via the **TOSHIBA Home AC app**. The energy monitoring function provides a complete overview of your energy consumption and costs.



App available for Android and iOS.



HIGHER
quality in
LIFE

ESTIA IN APARTMENTS

1 OUTDOOR UNIT

In the outdoor unit, the energy is obtained from the outdoor air with the aid of a heat exchanger, compressor, and refrigerant. It is then transferred to the indoor unit.

2 ALL-IN-ONE

The All-in-One indoor unit transfers the thermal energy from the refrigerant to the water system in the house. It also features a space-saving built-in 210 liter hot water tank.

3 EXISTING RADIATORS

Existing radiators can continue to be used. A supply water temperature of up to 65°C is possible in combination with radiators.

4 UNDERFLOOR HEATING

Combined with underfloor heating, the ESTIA system delivers water for heating at a lower supply water temperature.

5 CONSTANT HOT WATER

ESTIA is guaranteed to always supply sufficient domestic hot water in outdoor air temperatures down to -25°C from the integrated 210 liter DHW tank.

6 CONTROL UNIT

The control panel is located on the All-in-One and controls all the functions. An optional external room remote control is available.

Your ESTIA R32 system can also be conveniently controlled via the **TOSHIBA Home AC app**. The energy monitoring function provides a complete overview of your energy consumption and costs.



App available for Android and iOS.





ESTIA

TYPICAL APPLICATIONS

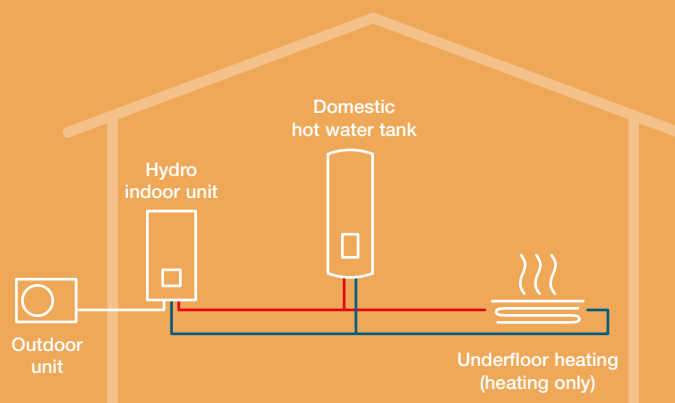
i

Different heating systems require **different supply water temperatures**. For a radiator, for example, the supply water temperature required is significantly higher than for under-floor heating.

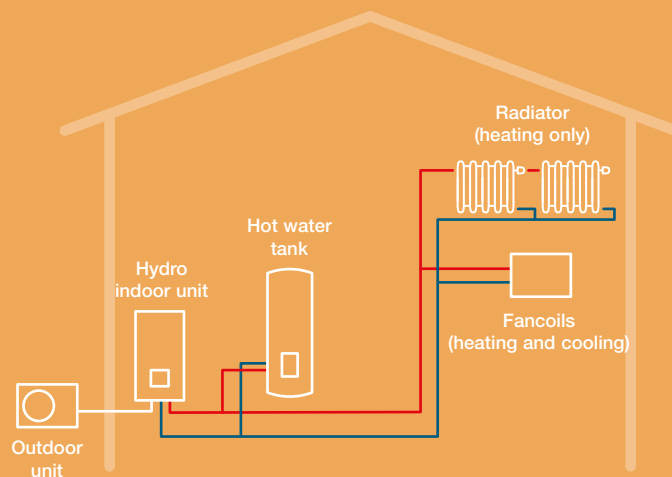
In this case, a **two-zone system** is required, while if only one supply water temperature is needed, then **one zone** is sufficient.

1 zone

1 zone with heating function and hot water preparation

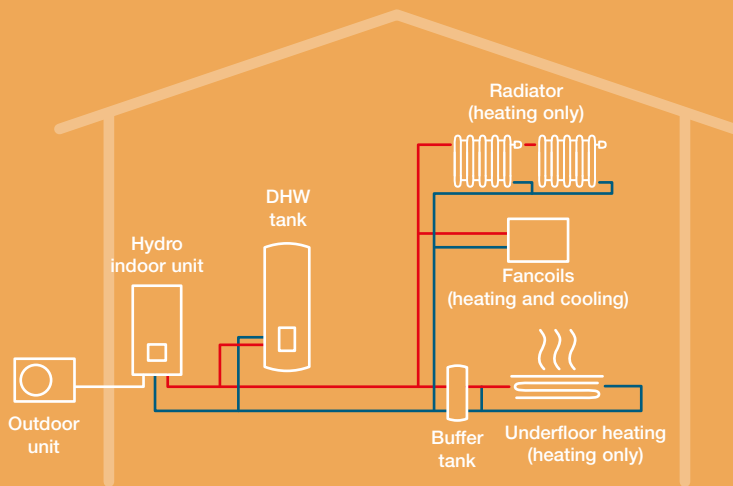


1 zone with heating and cooling function plus DHW preparation

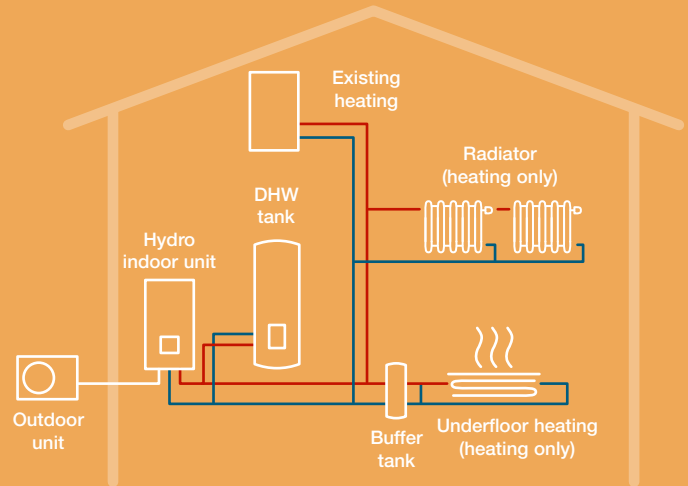


2 zones

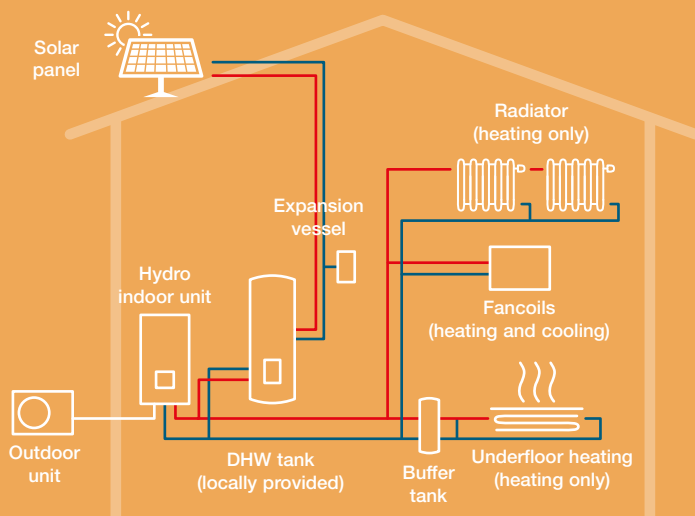
2 zones with cooling function



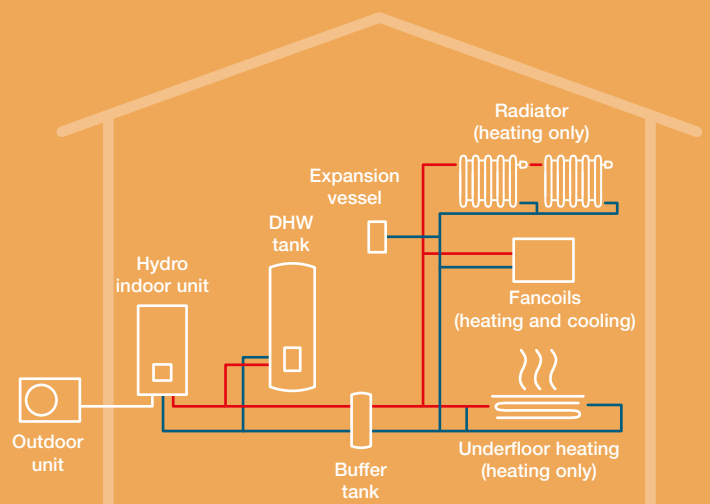
2 zones in a house with existing heating



2 zones with solar and cooling function



2 zones with buffer tank and cooling function



PLEASE NOTE: The examples shown above are purely symbolic diagrams.

ESTIA PRODUCT OVERVIEW

Heating capacity (kW)	4	6
ESTIA Hydrobox – Compact 1/2 zones 	1-phase  Page 22 OU: HWT-401HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E	1-phase  Page 24 OU: HWT-601HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E
ESTIA All-in-One 1 zone 	1-phase  Page 23 OU: HWT-401HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E	1-phase  Page 25 OU: HWT-601HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E
ESTIA All-in-One 2 zones 		

Hydrobox Compact

The Hydrobox can either be used as a replacement or integrated into an existing heating system (for example, in combination with radiators, underfloor heating, or wall heating).

- › **1-phase/3-phase**
- › Energy efficiency class **A+++**
- › Operating range of **-25 to +43°C**
- › Supply water temperature heating **up to +65°C**
- › **3 / 6 / 9 kW** backup heater

	8	11	14
	1-phase/3-phase  Page 26 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E	1-phase/3-phase  Page 28 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E	1-phase/3-phase  Page 30 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1401XWHT9W-E
	1-phase/3-phase  Page 27 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21ST9W-E	1-phase/3-phase  Page 29 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21ST9W-E	1-phase/3-phase  Page 31 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21ST9W-E
	1-phase/3-phase  Page 27 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21MT9W-E	1-phase/3-phase  Page 29 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21MT9W-E	1-phase/3-phase  Page 31 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21MT9W-E

All-in-One

The All-in-One system combines the Hydrobox and hot water tank in an indoor unit. Efficiency and a great look aren't the only benefits – this system also takes up minimal space.

- › 1-phase/3-phase
- › Energy efficiency class **A+++**
- › Operating range of **-25 to +43°C**
- › Supply water temperature heating **up to +65°C**
- › **3 / 6 / 9 kW** backup heater
- › Integrated domestic hot water tank (**210 liter**)

ESTIA 4 kW

Hydrobox



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +55°C

depending on the model

Combination options

Outdoor and indoor unit

Hydrobox Compact

1-phase			
HWT-401HW-E			
OUTDOOR UNIT			
Heating capacity @ A+7/W+35 (nom.)	kW	✱	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Heating range @A+7/W+35 (min. - max.)	kW	✱	0,79 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	✱	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		✱	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	✱	178 / 135
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	✱	4,53 / 3,45
COP			4,30
Sound power level (ERP)	dB(A)	✱	66
Sound power level (max.) /Heating capacity	dB(A) /kW	✱	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	✱	54 /2,85
Sound power level (night operation)	dB(A)	❄	55
Sound pressure level (Rated, 1m)	dB(A)	✱	45
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	✱	40
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	✱	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300

INDOOR UNIT		HWT-601XWHM3W-E		HWT-601XWHT6W-E	
Supply water temperature (min.-max.)	°C	✱	20/55		20/55
Supply water temperature (min.-max.)	°C	❄	7/25		7/25
Backup heater, capacity	kW		3		6
Water flow rate (min.)	m³/h		0,66		0,66
Water pump, discharge head (max.)	m		7,2		7,2
Sound power level	dB(A)	✱	40		40
Sound power level	dB(A)	❄	40		40
Dimensions (HxWxD)	mm		720 x 450 x 235		720 x 450 x 235

ESTIA 4 kW

All-in-One with domestic hot water tank



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +55°C

depending on the model

Combination options

Outdoor and indoor unit

All-in-One			
1-phase			
OUTDOOR UNIT		HWT-401HW-E	
Heating capacity @ A+7/W+35 (nom.)	kW *		4,00
Cooling capacity @ A+35/W+7 (nom.)	kW *		4,00
Heating range @A+7/W+35 (min. – max.)	kW *		0,79 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W *		5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W *		3,45
Energy efficiency class			A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	% *		178 / 135
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W *		4,53 / 3,45
COP			4,30
Sound power level (ERP)	dB(A) *		66
Sound power level (max.) /Heating capacity	dB(A) /kW *		71 /7,25
Sound power level (max.)	dB(A) *		65
Sound power level (night operation) /Heating capacity	dB(A) /kW *		54 /2,85
Sound power level (night operation)	dB(A) *		55
Sound pressure level (Rated, 1m)	dB(A) *		45
Sound pressure level (Rated, 1m)	dB(A) *		46
Sound pressure level (night operation, @ 1m)	dB(A) *		40
Sound pressure level (night operation, @ 1m)	dB(A) *		41
Outdoor temperature operating range (min.-max.)	°C *		-20 / +25
Outdoor temperature operating range (min.-max.)	°C *		+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300

1 zone			
INDOOR UNIT		HWT-602S21SM3W-E	
Tank volume	l	210	210
Supply water temperature (min.-max.)	°C *	20/55	20/55
Supply water temperature (min.-max.)	°C *	7/25	7/25
Backup heater, capacity	kW	3	6
Water flow rate (min.)	m³/h	0,66	0,66
Water pump, discharge head (max.)	m	7,2	7,2
Sound power level	dB(A) *	40 / 40	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670

ESTIA 6 kW

Hydrobox



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +55°C

depending on the model

Combination options

Outdoor and indoor unit

Hydrobox Compact

1-phase			
OUTDOOR UNIT			
HWT-601HW-E			
Heating capacity @ A+7/W+35 (nom.)	kW	✱	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Heating range @A+7/W+35 (min. – max.)	kW	✱	0,80 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	✱	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		✱	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	✱	180 / 132
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	✱	4,58 / 3,37
COP			4,30
Sound power level (ERP)	dB(A)	✱	66
Sound power level (max.) /Heating capacity	dB(A) /kW	✱	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	✱	58 /4,29
Sound power level (night operation)	dB(A)	❄	57
Sound pressure level (Rated, 1m)	dB(A)	✱	46
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	✱	42
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	✱	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300

INDOOR UNIT		HWT-601XWHM3W-E		HWT-601XWHT6W-E	
Supply water temperature (min.-max.)	°C	✱	20/55		20/55
Supply water temperature (min.-max.)	°C	❄	7/25		7/25
Backup heater, capacity	kW		3		6
Water flow rate (min.)	m³/h		0,66		0,66
Water pump, discharge head (max.)	m		7,2		7,2
Sound power level	dB(A)	✱ / ❄	40 / 40		40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235		725 x 450 x 235

ESTIA 6 kW

All-in-One with domestic hot water tank



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +55°C

depending on the model

Combination options

Outdoor and indoor unit

All-in-One			
1-phase			
HWT-601HW-E			
OUTDOOR UNIT			
Heating capacity @ A+7/W+35 (nom.)	kW	*	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	*	5,00
Heating range @A+7/W+35 (min. – max.)	kW	*	0,80 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	*	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	3,30
Energy efficiency class		*	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	*	180 / 132
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	*	4,58 / 3,37
COP			4,30
Sound power level (ERP)	dB(A)	*	66
Sound power level (max.) /Heating capacity	dB(A) /kW	*	71 /7,25
Sound power level (max.)	dB(A)	*	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	*	58 /4,29
Sound power level (night operation)	dB(A)	*	57
Sound pressure level (Rated, 1m)	dB(A)	*	46
Sound pressure level (Rated, 1m)	dB(A)	*	46
Sound pressure level (night operation, @ 1m)	dB(A)	*	42
Sound pressure level (night operation, @ 1m)	dB(A)	*	41
Outdoor temperature operating range (min.-max.)	°C	*	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	*	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300

1 zone			
HWT-602S21SM3W-E			
HWT-602S21ST6W-E			
INDOOR UNIT			
Tank volume	l		210
Supply water temperature (min.-max.)	°C	*	20/55
Supply water temperature (min.-max.)	°C	*	7/25
Backup heater, capacity	kW		3
Water flow rate (min.)	m³/h		0,66
Water pump, discharge head (max.)	m		7,2
Sound power level	dB(A)	*	40 / 40
Dimensions (HxWxD)	mm		1700 x 595 x 670

ESTIA 8 kW

Hydrobox


Energy efficiency class
A+++

Operating range

-25 to +43°C

Supply water temperature heating


Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			HWT-801HW-E	HWT-801H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	*	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	*	6,00	6,00
Heating range @A+7/W+35 (min. - max.)	kW	*	1,01 - 11,90	2,65 - 12,27
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	*	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	3,20	2,83
Energy efficiency class		*	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	*	182 / 142	177 / 140
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	*	4,63 / 3,63	4,51 / 3,59
COP			4,40	-
Sound power level (ERP)	dB(A)	*	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	*	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	*	66	66
Sound power level (night operation) /Heating capacity	dB(A) /kW	*	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	*	59	61
Sound pressure level (Rated, 1m)	dB(A)	*	51	50
Sound pressure level (Rated, 1m)	dB(A)	*	50	53
Sound pressure level (night operation, @ 1m)	dB(A)	*	46	49
Sound pressure level (night operation, @ 1m)	dB(A)	*	47	48
Outdoor temperature operating range (min.-max.)	°C	*	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	*	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

INDOOR UNIT		HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E
Supply water temperature (min.-max.)	°C	*	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	*	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6
Water flow rate (min.)	m³/h		0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2
Sound power level	dB(A)	*	38 / 38	38 / 38	40 / 40
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235	725 x 450 x 235

ESTIA 8 kW

All-in-One with domestic hot water tank



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			All-in-One 1-phase	All-in-One 3-phase
			HWT-801HW-E	HWT-801H8W-E
OUTDOOR UNIT				
Heating capacity @ A+7/W+35 (nom.)	kW	★	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	★	1,01 - 11,90	2,65 - 12,27
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	★	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,83
Energy efficiency class		★	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	★	182 / 142	177 / 140
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	★	4,63 / 3,63	4,51 / 3,59
COP			4,40	-
Sound power level (ERP)	dB(A)	★	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	★	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	❄	66	66
Sound power level (night operation) /Heating capacity	dB(A) /kW	★	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	❄	59	61
Sound pressure level (Rated, 1m)	dB(A)	★	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	50	53
Sound pressure level (night operation, @ 1m)	dB(A)	★	46	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	48
Outdoor temperature operating range (min.-max.)	°C	★	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

		1 zone	2 zones	1 zone	2 zones
		HWT-1102S21ST9W-E	HWT-1102S21MT9W-E	HWT-1102S21ST9W-E	HWT-1102S21MT9W-E
INDOOR UNIT					
Tank volume	l	210	210	210	210
Supply water temperature (min.-max.)	°C	★	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2
Sound power level	dB(A)	★ / ❄	40 / 40	40 / 40	45 / 45
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670

ESTIA 11 kW

Hydrobox


Energy efficiency class
A++ / A+++

Operating range

-25 to +43°C

Supply water temperature heating


Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			HWT-1101HW-E	HWT-1101H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	*	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	*	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	*	1,01 - 13,24	2,58 - 15,50
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	*	4,60	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	2,80	2,62
Energy efficiency class		*	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	*	179 / 142	179 / 138
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	*	4,55 / 3,62	4,56 / 3,52
COP			4,30	-
Sound power level (ERP)	dB(A)	*	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	*	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	*	67	67
Sound power level (night operation) /Heating capacity	dB(A) /kW	*	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	*	60	62
Sound pressure level (Rated, 1m)	dB(A)	*	51	58
Sound pressure level (Rated, 1m)	dB(A)	*	51	54
Sound pressure level (night operation, @ 1m)	dB(A)	*	49	49
Sound pressure level (night operation, @ 1m)	dB(A)	*	47	49
Outdoor temperature operating range (min.-max.)	°C	*	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	*	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

INDOOR UNIT			HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E
Supply water temperature (min.-max.)	°C	*	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	*	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	*	38 / 38	38 / 38	38 / 38	38 / 38
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235

ESTIA 11 kW

All-in-One with domestic hot water tank



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			All-in-One 1-phase	All-in-One 3-phase
			HWT-1101HW-E	HWT-1101H8W-E
OUTDOOR UNIT				
Heating capacity @ A+7/W+35 (nom.)	kW	★	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	★	1,01 - 13,24	2,58 - 15,50
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	★	4,60	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80	2,62
Energy efficiency class		★	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	★	179 / 142	179 / 138
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	★	4,55 / 3,62	4,56 / 3,52
COP			4,30	-
Sound power level (ERP)	dB(A)	★	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	★	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	❄	67	67
Sound power level (night operation) /Heating capacity	dB(A) /kW	★	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	❄	60	62
Sound pressure level (Rated, 1m)	dB(A)	★	51	58
Sound pressure level (Rated, 1m)	dB(A)	❄	51	54
Sound pressure level (night operation, @ 1m)	dB(A)	★	49	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	49
Outdoor temperature operating range (min.-max.)	°C	★	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

		1 zone	2 zones	1 zone	2 zones
		HWT-1102S21ST9W-E	HWT-1102S21MT9W-E	HWT-1102S21ST9W-E	HWT-1102S21MT9W-E
INDOOR UNIT					
Tank volume	l	210	210	210	210
Supply water temperature (min.-max.)	°C	★	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25
Backup heater, capacity	kW	9	9	9	9
Water flow rate (min.)	m³/h	0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2
Sound power level	dB(A)	★ / ❄	40 / 40	40 / 40	45 / 45
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670

ESTIA 14 kW

Hydrobox


Energy efficiency class
A++ / A+++

Operating range

-25 to +43°C

Supply water temperature heating


Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			HWT-1401HW-E	HWT-1401H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	❄️	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄️	10,00	10,00
Heating range @A+7/W+35 (min. - max.)	kW	❄️	2,44 - 18,39	2,55 - 18,39
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	❄️	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄️	2,45	2,45
Energy efficiency class		❄️	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	❄️	183 / 138	180 / 139
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	❄️	4,65 / 3,53	4,57 / 3,55
COP			-	-
Sound power level (ERP)	dB(A)	❄️	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	❄️	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	❄️	70	70
Sound power level (night operation) /Heating capacity	dB(A) /kW	❄️	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	❄️	63	63
Sound pressure level (Rated, 1m)	dB(A)	❄️	59	59
Sound pressure level (Rated, 1m)	dB(A)	❄️	59	59
Sound pressure level (night operation, @ 1m)	dB(A)	❄️	50	50
Sound pressure level (night operation, @ 1m)	dB(A)	❄️	51	51
Outdoor temperature operating range (min.-max.)	°C	❄️	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄️	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

INDOOR UNIT			HWT-1401XWHT9W-E	HWT-1401XWHT9W-E
Supply water temperature (min.-max.)	°C	❄️	20/65	20/65
Supply water temperature (min.-max.)	°C	❄️	7/25	7/25
Backup heater, capacity	kW		9	9
Water flow rate (min.)	m³/h		0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	❄️ / ❄️	40 / 40	40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235

ESTIA 14 kW

All-in-One with domestic hot water tank



Energy efficiency class

A+++


Operating range

-25 to +43°C

Supply water temperature heating



Up to +65°C

depending on the model

Combination options

Outdoor and indoor unit

			All-in-One 1-phase	All-in-One 3-phase
OUTDOOR UNIT			HWT-1401HW-E	HWT-1401H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	★	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	★	2,44 - 18,39	2,55 - 18,39
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	★	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,45	2,45
Energy efficiency class		★	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	★	183 / 138	180 / 139
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	★	4,65 / 3,57	4,57 / 3,55
COP			-	-
Sound power level (ERP)	dB(A)	★	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	★	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	❄	70	70
Sound power level (night operation) /Heating capacity	dB(A) /kW	★	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	❄	63	63
Sound pressure level (Rated, 1m)	dB(A)	★	59	59
Sound pressure level (Rated, 1m)	dB(A)	❄	59	59
Sound pressure level (night operation, @ 1m)	dB(A)	★	50	50
Sound pressure level (night operation, @ 1m)	dB(A)	❄	51	51
Outdoor temperature operating range (min.-max.)	°C	★	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370

		1 zone	2 zones	1 zone	2 zones
INDOOR UNIT		HWT-1402S21ST9W-E	HWT-1402S21MT9W-E	HWT-1402S21ST9W-E	HWT-1402S21MT9W-E
Tank volume	l	210	210	210	210
Supply water temperature (min.-max.)	°C	★	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2
Sound power level	dB(A)	★ / ❄	42 / 42	42 / 42	46 / 46
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670

ESTIA

domestic hot water heat pump

Compact solution for preparing domestic hot water


Energy efficiency class
A⁺

Operating range

180 or 250 liter

Supply water temperature heating


Up to +62°C

depending on the model

INDOOR UNIT		HWS-G1801CNHME-E	HWS-G2501CNHME-E	HWS-G2501ENHME-E
Energy efficiency class		A+	A+	A+
Energy efficiency COP @ A+7/W+10 to +52.9 (EN16147)	W/W *	2,92	3,37	3,37
Air temperature operating range (min.-max.)	°C	-5 / +35	-5 / +35	-5 / +35
Heating-up time @ A+7/W+10 to +53.5 (EN16147)	hh:mm *	06:30	10:00	10:00
Tank volume	l	178	254	246
Water temperature, with backup heater (max.)	°C *	65,0	65,0	65,0
Water temperature, heat pump mode only (max.)	°C *	52,9	52,9	52,9
Corrosion protection		Magnesium anode	Magnesium anode	Magnesium anode
Sound power level, with air connections (ISO12102)	dB(A)	53	50	50
Sound pressure level, with air connections @ 2 m	dB(A)	35	32	32
Sound power level, without air connections (ISO12102)	dB(A)	64	64	64
Sound pressure level, without air connections @ 2 m	dB(A)	46	46	46
Airflow (min./nom./max.)	m³/h	250/-/320	331/-/375	331/-/375
External static pressure (max.)	Pa	100	100	100
Air connections diameter	mm	160	160	160
Room volume, without air connections (min.)	m³	20	20	20
Power consumption (max.)	W *	2,25	2,25	2,25
Backup heater, capacity	kW	1,50	1,50	1,50
Water connection (inlet/outlet)	Inch	3/4" - 3/4"	3/4" - 3/4"	3/4" - 3/4"
Condensate pipe diameter	mm	20	20	20
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	10
Required height for installation (min.)	mm	1850	2000	2000
Refrigerant		R1234-ze	R1234-ze	R1234-ze
Refrigerant charge	kg	1,15	1,35	1,35
CO2 equivalent	t	8,05	9,45	9,45
Dimensions (HxØ)	mm	1559 x 584	1780 x 634	1780 x 634
Weight (dry/wet)	kg	95/273	110/364	110/364

ESTIA

DHW tank



INDOOR UNIT		HWS-1501CSHM3-E	HWS-2101CSHM3-E	HWS-3001CSHM3-E
Tank volume	l	150	210	300
Water temperature (max.)	°C	75	75	75
Backup heater, capacity	kW	2,75	2,75	2,75
Backup heater, connection	Ph+N	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Dimensions (HxØ)	mm	1090 x 550	1474 x 550	2040 x 550
Weight (dry/wet)	kg	31 / 181	41 / 251	60 / 360

This is a special order item. Delivery time provided on request.

LIST OF IMAGES

We would like to take this opportunity to express our gratitude for the support and reference images provided. They give potential customers a realistic impression of our products and help us to strengthen the TOSHIBA brand.

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TOSHIBA



HOME

Your home – Your climate.



2 – 10 kW

TOSHIBA's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.

ESTIA

The Air-to-Water heat pump
The warmth of the future.



4 – 14 kW

High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home.

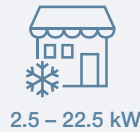
Heating with heat from the air – environmentally friendly, cost-effective, and efficient.



Expertise in every sector –
air conditioning systems and heat pumps for cooling and heating



LIGHT BUSINESS



2.5 – 22.5 kW

The performance you need.
The comfort you expect.

With its versatility, the RAV single-room solutions are perfect for 24-hour continuous operation to maintain a precisely defined room climate – from small server rooms to large stores. Up to four indoor units can be combined for optimum air distribution and set to heat or cool the room as desired, so they can be operated all year round.



BUSINESS

Plan for excellence.
Cool excellently.



12.1 – 335 kW

Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels. Huge system flexibility with piping lengths of 1200 m and up to 128 indoor units leave no wishes unmet. The system also allows independent cooling and heating at the same time in different rooms or areas of buildings.

CHILLERS

Cooling & heating in
the big leagues.



150 kW – 25.6 MW

TOSHIBA's USX chillers represent a new dimension in cooling and heating generation.

If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.



TOSHIBA

We advise you personally

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