

AIR/WATER-HEATPUMP FOR HEATING & COOLING

ESTIA All-in-One S1 11 kW



→ Highlights

- Integrated storage tank with 210 Liter
- Energy efficiency A +++
- Operating range down to -25°C outdoor temperature
- Operation without backup heater up to the standard outside temperature

R32 Air to water heat pumps in split design with integrated hot water tank, for leaving water temperatures up to +65°C, in the capacity range from 4 to 14 kW, for the preparation of hot or cold water. Combination of outdoor unit and All-in-One indoor unit to supply all applications such as fan coils, radiators or underfloor heating.

→ Attractive and economical

- Highest energy efficiency (A +++)
- COP efficiency up to 5.20
- Low investment, installation and operating costs
- Particularly high efficiency in the partial load range
- Compressor control range from 10 to 100%
- Suitable for monovalent heating
- For heating and domestic hot water preparation
- Connection to existing heating systems possible
- EHPA and KEYMARK certified performance & quality
- Master / slave control for up to 8 ESTIA systems
- Highest "Japan-designed & Europe-manufactured" quality

→ Convenient operation

- Control unit integrated in the All-in-One indoor unit
- Additional (2nd) remote control possible as an option
- Optional 2-zone temperature control (8, 11, 14 kW)
- 1-zone temperature control (4 & 6 kW)
- Automatic restart after a power failure
- Optional WiFi control via smartphone APP
- Weekly timer
- Frost protection function
- Hot water boost
- Night set-back function
- Screed heating program

→ Resource-saving

- Inverter control minimizes the power requirement
- Low-GWP refrigerant R32 pre-filled
- Air as an energy source in heating mode
- "Night Operation" whisper mode

→ Technical details

- DC hybrid inverter technology
- Twin-rotary compressor
- Liquid-Injection (8 & 11 kW)
- Piping length up to 30 m
- Leaving water temperature up to +65°C (8, 11, 14 kW)
- 6-stage A-class water pump
- Digital IN / OUT functions as standard
- Smart Grid Onboard
- Control options: Modbus, KNX, 0-10 Volts, WiFi

→ Easy selection, installation & commissioning

- "ESTIA Selection Tool" Software supports selection & calculates cost savings
- Only 60 x 67 cm installation space for the indoor unit
- Compact & quiet single-fan outdoor units
- Small amount of refrigerant, below the EN378 minimum limit
- "DynaKit" Startup Tool for easy commissioning via preconfiguration



ESTIA All-in-One S1 11 kW / SET

Outdoor unit			HWT-1101HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00
Power consumption @ A+7/W+35 (nom.)	kW	☀	2,39
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60
Heating capacity @ A+2/W+35 (max.)	kW	☀	11,46
Power consumption @ A+2/W+35 (max.)	kW	☀	3,24
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,54
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	179 / 142
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,55 / 3,62
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	2,86
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80
Compressor type			Twin-Rotary w/inj
Power supply	V/Ph+N/Hz		220-240/1+N/50
Running current (max.)	A		19,98
Current consumption (nom.)	A		10,60
Current consumption (max.)	A		19,98
Starting current	A		Softstart
Recommended power supply line type			H07RN-F 3G4,0
Recommended fusing	A		20
Communication line			H07RN-F 4G1,5
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (1/4)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level (ERP)	dB(A)	☀	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /13,24
Sound power level (max.)	dB(A)	❄	67
Sound pressure level (Rated, 1m)	dB(A)	☀	51
Sound pressure level (Rated, 1m)	dB(A)	❄	51
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /8,28
Sound power level (night operation)	dB(A)	❄	60
Sound pressure level (night operation, @ 1m)	dB(A)	☀	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47
Refrigerant			R32
Refrigerant charge	kg		1,25
CO2 equivalent	t		0,844
Pre-charged up to	m		8
Dimensions (HxWxD)	mm		1050 x 1010 x 370
Weight	kg		75

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Indoor unit			HWT-1101F21ST9W-E
Supply water temperature (min.-max.)	°C	☀	20/65
Supply water temperature (min.-max.)	°C	❄	7/25
Compatible outdoor units			801/1101
Controllable zones			1
Backup heater, capacity	kW		9
Backup heater, connection	Ph+N		380-415/3+N/50
Backup heater, recommend fusing	A		3x 16
Water pump			Variable speed centrifugal pump
Water flow rate (min.)	m ³ /h		0,78
Water flow rate (nom.)	m ³ /h		1,362
Water pump, power consumption (max.)	kW		0,060
Water pump, energy efficiency class			EEl
Water pump, discharge head (max.)	m		7,2
Expansion vessel	l		10
Water connection (inlet/outlet)	Inch		22
Sound pressure level (low/med/high)	dB(A)	☀	30
Sound pressure level (low/med/high)	dB(A)	❄	30
Sound power level	dB(A)	☀	42
Sound power level	dB(A)	❄	42
Dimensions (HxWxD)	mm		1700 x 600 x 670
Weight	kg		157

❄ Cooling ☀ Heating

The measuring conditions for this product can be found at <https://www.toshiba-aircondition.com/en/measuring-conditions.html>

