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Symbol photo

AIR/WATER-HEATPUMP FOR HEATING & COOLING

ESTIA All-in-One S1 8 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

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

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

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

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

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ESTIA All-in-One S1 8 kW / SET

Outdoor unit			HWT-801HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00
Power consumption @ A+7/W+35 (nom.)	kW	☀	1,54
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19
Heating capacity @ A+2/W+35 (max.)	kW	☀	10,30
Power consumption @ A+2/W+35 (max.)	kW	☀	2,77
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,72
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	182 / 142
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,63 / 3,63
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	1,88
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20
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		7,05
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	☀	71 /11,90
Sound power level (max.)	dB(A)	❄	66
Sound pressure level (Rated, 1m)	dB(A)	☀	51
Sound pressure level (Rated, 1m)	dB(A)	❄	50
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /5,93
Sound power level (night operation)	dB(A)	❄	59
Sound pressure level (night operation, @ 1m)	dB(A)	☀	46
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

❄ Cooling ☀ Heating

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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		1,002
Water pump, power consumption (max.)	kW		0,060
Water pump, energy efficiency class			EEI
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