### **TOSHIBA**

### SPLIT-HEATPUMP FOR HEATING & COOLING

## ESTIA R32 Split Hydrobox



Highlights

Energy efficiency A +++

Operating range down to -25°C outdoor temperature Operation without backup heater up to the standard outside temperature



Air to water heat pumps in split design 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 hydrobox to supply all applications such as hot water tanks, fan coils, radiators or underfloor heating.

### $\rightarrow$ .

### Attractive and economical

- Highest energy efficiency (A +++)
- COP efficiency up to 5.20
- $_{\rm -}$  Low investment, installation and operating costs
- $_{\rm -}\,$  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
- EHPA and KEYMARK certified performance & quality
- Master / slave control for up to 8 ESTIA systems
- ${\scriptstyle -} \ \ Highest \ "Japan-designed \& \ Europe-manufactured" \ quality$

### $\rightarrow$

#### 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
- \_ Compact & lightweight indoor units
- 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 hydrobox
- Additional (2nd) remote control possible as an option
- Integrated 2-zone temperature control
- 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, 14 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



## **TOSHIBA**

# **ESTIA R32 Split Hydrobox / SET**

Outdoor unit			HWT-1401HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	*	14,00
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	*	4,60
Energy efficiency class		*	A+++
Seasonal space heating efficiency (ns), low temperature (35 °C), average climate	%		183
Cooling capacity @ A+35/W+7 (nom.)	kW	*	10,00
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	2,45
Compressor type			Twin-Rotary w/inj
Power supply	V/Ph+N/Hz		220-230/1/50
Starting current	А		Softstart
Recommended fusing	А		20
Communication line			H07RN-F 4G1,5
Outdoor temperature operating range (minmax.)	°C	*	-25 / +25
Outdoor temperature operating range (minmax.)	°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		25
Height difference (max.)	m		25
Sound pressure level (low/med/high)	dB(A)	*	72
Sound pressure level (low/med/high)	dB(A)	*	70
Sound power level	dB(A)	*	70
Sound power level	dB(A)	*	70
Sound pressure level (night operation)	dB(A)	*	63
Sound power level (night operation)	dB(A)	*	62
Sound power level (night operation)	dB(A)	*	63
Refrigerant			R32
Refrigerant charge	kg		1,40
CO2 equivalent	t		0,945
Pre-charged up to	m		8
Dimensions (HxWxD)	mm		1050 x 1010 x 370
Weight	kg		88

<sup>\*</sup> Cooling Heating



## **TOSHIBA**

## **ESTIA R32 Split Hydrobox / SET**

Indoor unit			HWT-1401XWHT9W-E
Supply water temperature (minmax.)	°C	*	20/65
Supply water temperature (minmax.)	°C	*	7/25
Compatible outdoor units			1401
Backup heater, capacity	kW		9
Backup heater, connection	Ph+N		380-400/3+N/50
Backup heater, recommend fusing	А		3x 16
Water pump			Variable speed centrifugal pump
Water flow rate (min.)	m³/h		0,78
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		8
Water connection (inlet/outlet)	Inch		1
Sound pressure level (low/med/high)	dB(A)	*	29
Sound pressure level (low/med/high)	dB(A)	*	29
Sound power level	dB(A)	*	40
Sound power level	dB(A)	*	40
Dimensions (HxWxD)	mm		725 x 450 x 235
Weight	kg		27

<sup>\*</sup> Cooling Heating

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

