TOSHIBA

SPLIT-HEATPUMP FOR HEATING & COOLING

ESTIA R32 Split All-in-One 5





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

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 hydrobox 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
- $_{\rm -}$ 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 hydrobox
- Additional (2nd) remote control possible as an option
- Optional 2-zone temperature control (8, 11, 14 kW)
- $_{\rm -}\,$ 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 R32 Split All-in-One 5 / SET

Heating capacity @ A-7/W-55 (norm)	Out the security			LIMIT COALINA F
Power consumption @ A+7/W-35 (nom)	Outdoor unit		<u></u>	HWT-601HW-E
Energy efficiency CDP @ A+7/W+35 (max)				
Heating capacity @ A-27W-35 (max)				,
Power consumption (@ A+2/W+35 (max.)		W/W		4,80
Energy efficiency COP @ A+2/W+35 (max) Energy efficiency class Seasonal space heating efficiency (m), tow temperature (55 °C), average climate % 180 Cooling capacity @ A+35/W+7 (mm) Power consumption @ A+35/W+7 (mm) Energy efficiency EER @ A+35/W+7 (mm) Energy efficiency EER @ A+35/W+7 (mm) W/W \$ 1,52 Energy efficiency EER @ A+35/W+7 (mm) W/W \$ 3,30 Compressor type Twin-Rotary V/PhN/Hz 220-230/T/50 A 14,60 Current consumption (max) A 14,60 Current consumption (max) A 14,6 Softstart Recommended power supply life type HOFRN F 362,5 Recommended power supply life type HOFRN F 462,5 Recommended fusing A 16 Communication line HOFRN F 461,5 Outdoor temperature operating range (min-max) "C	Heating capacity @ A+2/W+35 (max.)	kW		6,42
A+++ Seasonal space heating efficiency (no.), low temperature (35 °C), average climate	Power consumption @ A+2/W+35 (max.)	kW		1,52
Seasonal space heating efficiency (ns), low temperature (35 °C), average climate % 180 Cooling capacity @ A+35/W+7 (nom.) kW \$ 5,00 Power consumption @ A+35/W+7 (nom.) kW \$ 1,52 Energy efficiency EER @ A+35/W+7 (nom.) W/W \$ 3,50 Compressor type V/Ph+N/Hz 220-230/U/50 Running current (max) A 14,60 Current consumption (nom.) A 14,60 Current consumption (max.) A 16 Current consumption (max.) A 16 Consumption (max.) A 16 Consumptio	Energy efficiency COP @ A+2/W+35 (max.)	W/W		4,22
Cooling capacity @ A+35/W+7 (nom)	Energy efficiency class		*	A+++
Power consumption @ A+35/W+7 (nom) kW \$ 1,52 Energy efficiency EER @ A+35/W+7 (nom) W/W \$ 3,30 Compressor type Twin-Rotary Power supply V/Ph+N/Hz 220-230/J50 Rounding current (max) A 14,60 Current consumption (nom.) A 5,78 Current consumption (max) A 14,6 Starting current A 14,6 Starting current A 5078 tart Recommended power supply line type A 16 Recommended fusing A 16 Communication line HO7RN-F 861,5 Outdoor temperature operating range (min-max) *C +07,7+25 Ouddoor temperature operating range (min-max) *C +10/443 Liquid pipe diameter mm (inch) 12,7 (1/2) Suction gas pipe diameter mm (inch) 12,7 (1/2) Pipe length (min) m 5 Pipe length (max) m 30 Height difference (max) m 30 Sound power level (ww/med/high)	Seasonal space heating efficiency (ns), low temperature (35 °C), average climate	%		180
Energy efficiency EER @ A+35/N+7 (nom.) Compressor type Twin-Rotary Power supply V/Ph+N/Hz 220-230/1/50 Running current (max.) A 14,60 Current consumption (nom.) A 5,78 Current consumption (max.) A 14,6 Starting current A Softstart Recommended power supply line type H07RN-F 362,5 Recommended fusing A 16 Communication line H07RN-F 461,5 Outdoor temperature operating range (minmax.) **C ** 125/1-125 Outdoor temperature operating range (minmax.) **C ** 127/1/27 Pipe Length (min.) ** ** ** ** ** ** ** ** **	Cooling capacity @ A+35/W+7 (nom.)	kW		5,00
Compressor type Twin-Rotary Power supply V/Phi-N/Hz 220-230/1/50 Running current (max) A 14,60 Current consumption (nom) A 14,6 Current consumption (max) A 14,6 Starting current A Softstart Recommended power supply line type HO7RN-F 362,5 Recommended fusing A 16 Communication line HO7RN-F 461,5 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 (I/4) Suction gas pipe diameter mm (inch) 12,7 (I/2) Pipe length (min) m 30 Pipe length (max) m 30 Helight difference (max) m 30 Sound pressure level (low/med/high) dB(A) ± 4 Sound pressure level (low/med/high) dB(A) ± 5 Sound power level dB(A) ± 6 Sound power level (inght operation)	Power consumption @ A+35/W+7 (nom.)	kW	*	1,52
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Softstart Softstart Recommended power supply line type	Current consumption (nom.)	A		5,78
Recommended power supply line type H07RNF 362,5 Recommended fusing A 16 Communication line H07RNF 461,5 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) 12,7 (1/2) Pipe length (min.) m 30 Height difference (max.) m 30 Sound pressure level (low/med/high) dB(A) * 46 Sound power level dB(A) * 45 Sound power level dB(A) * 62 Sound power level (night operation) dB(A) * 42 Sound power level (night operation) dB(A) * 58	Current consumption (max.)	A		14,6
Recommended fusing A 16 Communication line HOTRN-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) 12,7 (1/2) Pipe length (min.) m 5 Pipe length (max.) m 30 Height difference (max.) m 30 Sound pressure level (low/med/high) dB(A) * 46 Sound pressure level (low/med/high) dB(A) * 45 Sound power level dB(A) * 62 Sound power level (night operation) dB(A) * 42 Sound power level (night operation) dB(A) * 58 Sound power level (night operation) dB(A) * 58 Sound power level (night operation) dB(A) * 58 Refrigerant R32 Refrigerant charge kg 0,6	Starting current	А		Softstart
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Outdoor temperature operating range (minmax.) °C 2-25 /+25 Outdoor temperature operating range (minmax.) °C \$ +10 /+43 Liquid pipe diameter mm (inch) 6,3 (1/4) Suction gas pipe diameter mm (inch) 12,7 (1/2) Pipe length (min.) m 5 Pipe length (max.) m 30 Height difference (max.) m 30 Sound pressure level (low/med/high) dB(A) 46 Sound pressure level (low/med/high) dB(A) 45 Sound power level dB(A) 45 Sound power level (night operation) dB(A) 42 Sound power level (night operation) dB(A) 42 Sound power level (night operation) dB(A) 58 Sound power level (night operation) dB(A) 58 Serigerant R32 R8 Refrigerant (harge kg 0,608 Pre-charged up to m 20 Dimensions (HXXXXD) mm 630 x 800 x 300	Recommended fusing	А		16
Outdoor temperature operating range (min-max.) C	Communication line			H07RN-F 4G1,5
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Suction gas pipe diameter mm (inch) 12,7 (1/2) Pipe length (min.) m 5 Pipe length (max.) m 30 Height difference (max.) m 30 Sound pressure level (low/med/high) dB(A) 46 Sound pressure level (low/med/high) dB(A) 45 Sound power level dB(A) 46 Sound power level dB(A) 46 Sound power level (night operation) dB(A) 42 Sound power level (night operation) dB(A) 45 Sound power level (night operation) dB(A) 40 Sound power level (nig	Outdoor temperature operating range (minmax.)	°C	*	+10 / +43
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Sound pressure level (low/med/high) Sound pressure level (low/med/high) Sound pressure level (low/med/high) Sound power level Sound power level Sound power level Sound power level (night operation) Bay Alexandra	Pipe length (max.)	m		30
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Sound power level Sound pressure level (night operation) Sound power level (night operation) Sound power level (night operation) Sound power level (night operation) Begin and the series of the	Sound pressure level (low/med/high)	dB(A)	*	45
Sound pressure level (night operation) Sound power level (night operation) Sound power level (night operation) Begin and power level (night operation) Begin	Sound power level	dB(A)	*	62
Sound power level (night operation) dB(A) \$ 58 Sound power level (night operation) dB(A) \$ 58 Refrigerant R32 Refrigerant charge kg 0,9 CO2 equivalent t 0,608 Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	Sound power level	dB(A)	*	61
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Sound power level (night operation) dB(A) \$ 58 Refrigerant R32 Refrigerant charge kg 0,9 CO2 equivalent t 0,608 Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	Sound power level (night operation)		*	58
Refrigerant R32 Refrigerant charge kg 0,9 CO2 equivalent t 0,608 Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	Sound power level (night operation)		*	58
CO2 equivalent t 0,608 Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	Refrigerant			R32
CO2 equivalent t 0,608 Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	Refrigerant charge	kg		0,9
Pre-charged up to m 20 Dimensions (HxWxD) mm 630 x 800 x 300	CO2 equivalent			0,608
Dimensions (HxWxD) mm 630 x 800 x 300	Pre-charged up to			
	Weight	kg		42

* Cooling Heating



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ESTIA R32 Split All-in-One 5 / SET

Indoor unit			HWT-601F21ST6W-E
Supply water temperature (minmax.)	°C	*	20/55
Supply water temperature (minmax.)	°C	*	7/25
Compatible outdoor units			401/601
Backup heater, capacity	kW		6
Backup heater, connection	Ph+N		380-400/3+N/50
Backup heater, recommend fusing	А		2x 16
Water pump			Variable speed centrifugal pump
Water flow rate (min.)	m³/h		0,66
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

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

