TOSHIBA

SPLIT-HEATPUMP FOR HEATING & COOLING

ESTIA R32 Split Hydrobox 5



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.

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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
- ${\scriptstyle -} \ \ Highest \ "Japan-designed \ \& \ Europe-manufactured" \ quality$

\longrightarrow $^{\scriptscriptstyle extsf{F}}$

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



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ESTIA R32 Split Hydrobox 5 / SET

Heating capacity @ A-7/W-55 (norm)	Out to a week			LIMIT COALINA F
Power consumption @ A+7/W-35 (nom)	Outdoor unit		<u></u>	HWT-601HW-E
Energy efficiency CDF @ A+7/W+35 (nam.) Heating aparich @ A+22W+35 (max.) Power consumption @ A+22W+35 (max.) Power consumption @ A+2W+35 (max.) Energy efficiency class Energy efficiency (also) Ener				
Hedding 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 (ns), tow temperature (35 °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) Power consumption @ 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 Compessor type V/Ph+V/Hz 2220-230/1/50 Compessor type V/Ph+V/Hz Current consumption (max) A 14,60 Current consumption (mmx) A 5,78 Current consumption (mmx) A 5,78 Current consumption (mmx) A 14,6 Satring current A Softstart Recommended power supply line type HOFNNF-F 4GL,5 Outdoor temperature operating range (min. max) "C # 107/Hs-F 4GL,5 Outdoor temperature operating range (min. max) "C # 107/Hs-F 4GL,5 Outdoor temperature operating range (min. max) "C # 107/Hs-F 4GL,5 Outdoor temperature operating range (min. max) "C # 107/Hs-F 4GL,5 Outdoor temperature operating range (min. max) "C # 107/Hs-F 4GL,5 Outdoor pass pipe diameter mm (inch) 5 (3 (7/4) Soction gas pipe diameter mm (inch) 5 (3 (7/4) Soction gas pipe diameter mm (inch) 5 (3 (7/4) Soction gas pipe diameter mm (inch) 5 (3 (7/4) Soction gas pipe diameter diam diam diam diam diam diam diam diam	Heating capacity @ A+2/W+35 (max.)	kW		6,42
A+++ Seasonal space heating efficiency (ns), low temperature (35 °C), average climate % 180	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 W/Ph+N/Hz 220-230/J/50 Running current (max) A 14,60 Current consumption (nom.) A 14,60 Current consumption (max.) A 14,60 Current consumption (max.) A 14,60 Starting current A 5,78 Current consumption (max.) A 14,66 Starting current A 5,78 Recommended power supply line type H07RNF 562,5 Recommended fusing A 16 Communication line H07RNF 642,5 Outdoor temperature operating range (minmax.) °C * -25 /+25 Outdoor temperature operating range (minmax.) °C * +10 /+43 Liquid pipe diameter mm (inch) 12	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)	Seasonal space heating efficiency (ns), low temperature (35 °C), average climate	%		180
Energy efficiency EER	Cooling capacity @ A+35/W+7 (nom.)	kW		5,00
Compressor type TWIN-Rotary Power supply V/Ph-N/Hz 220-230/1/50 Running current (max) A 14,60 Current consumption (nom) A 14,60 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 2-25/+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 (min) m 30 Helight 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 dB(A) 45	Power consumption @ A+35/W+7 (nom.)	kW	*	1,52
Power supply V/Ph+N/Hz 220-230/J/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 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 (1/4) Suction gas pipe diameter mm (inch) 12,7 (1/2) Pipe length (min.) m 5 Pipe length (mix.) 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 (now/med/high) dB(A) * 45 Sound power level (night operation)<	Energy efficiency EER @ A+35/W+7 (nom.)	W/W	*	3,30
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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 (I/4) Suction gas pipe diameter mm (inch) 12,7 (I/2) Pipe length (min.) m 30 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) ★ 62 Sound power level dB(A) ★ 61 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 0,9 CO2 equivalent t 0,608 Pre-charged up to mm 630 x 800 x 300	Recommended power supply line type			H07RN-F 3G2,5
Outdoor temperature operating range (minmax.) "C	Recommended fusing	А		16
Outdoor temperature operating range (min-max.) °C \$\frac{1}{4}\text{3}\$ 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) \$\frac{1}{4}\text{4}\$ Sound pressure level (low/med/high) dB(A) \$\frac{1}{4}\text{5}\$ Sound power level dB(A) \$\frac{1}{4}\text{5}\$ Sound power level (night operation) dB(A) \$\frac{1}{4}\text{2}\$ Sound power level (night operation) dB(A) \$\frac{1}{4}\text{2}\$ Sound power level (night operation) dB(A) \$\frac{1}{4}\text{2}\$ Sound power level (night operation) dB(A) \$\frac{1}{4}\text{5}\$ Refrigerant R32 Refrigerant charge kg 0,9 CO2 equivalent t 0,608 Pre-charged up to mm 630 x 800 x 300	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 (nig	Outdoor temperature operating range (minmax.)	°C	*	+10 / +43
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Height difference (max.) Sound pressure level (low/med/high) Sound pressure level (low/med/high) Bound pressure level (low/med/high) Sound power level Bound power level (night operation) B	Pipe length (min.)	m		5
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Sound pressure level (low/med/high) Sound power level Sound power level Sound power level Sound power level Sound power level (night operation) Bay Sound power level (night operation) Coz equivalent The sound power level (night operation) Refrigerant charge Refrigerant charge Refrigerant charge The sound power level (night operation) Respectively (night operation) Res	Height difference (max.)	m		30
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Sound power level dB(A)	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 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



TOSHIBA

ESTIA R32 Split Hydrobox 5 / SET

Indoor unit			HWT-601XWHT6W-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		8
Water connection (inlet/outlet)	Inch		1
Sound pressure level (low/med/high)	dB(A)	*	28
Sound pressure level (low/med/high)	dB(A)	*	28
Sound power level	dB(A)	*	40
Sound power level	dB(A)	*	40
Dimensions (HxWxD)	mm		725 x 450 x 235
Weight	kg		27

^{*} Cooling Heating

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

