### TOSHIBA

### ONE SYSTEM FOR ALL APPLICATIONS

# Estia R410A 8

Highlights
Heating and cooling function
Compressor control range 10 to 100%
Operation without backup heating up to the standard outdoor temperature

Air/Water heat pumps in a split design for flow temperatures up to +55°C, in the power range of 5 to 16 kW, for generating hot or cold water. Combination of outdoor unit and hydro unit for supplying all applications such as hot water tanks, fan coils, radiators, or underfloor heating.

#### Attractive and economical

- Very high energy efficiency (A++)
- COP efficiency up to 4.90
- \_ Low investment, installation, and operating costs
- Exceptionally high efficiency in the partial load range
- Suitable for monovalent heating
- For heating and process water generation
- Can be connected to existing heating systems
- Reliable heating with an outdoor temperature down to -20°C
- Corresponds to the ECODESIGN Lot 1 Directive
- Master/Slave control for up to 8 ESTIA systems

#### **Resource-friendly**

- Inverter control minimizes electricity consumption
- Pre-filled with environmentally-friendly refrigerant R410A
- Air used as energy source in heating mode
- Unobtrusive design fits any interior
- Compact & quiet outdoor unit
- \_ "Night operation" whisper operating mode

### ightarrow Easy operation

- Control unit integrated into the hydro unit
- Additional remote control available
- \_ Easy icon-guided operation
- \_ Integrated 2-zone temperature control
- Automatic restart after power outage
- \_ Weekly timer
- Frost protection function
- Hot water boost
- Night set-back function

#### Technical details

- Direct current hybrid inverter technology
- \_ Twin-rotary compressor
- Pipe lengths up to 30 m
- Flow temperature heating up to +55°C
- Six-stage A-class water pump





## TOSHIBA

### Estia R410A 8 / SET

Decision query lockKW*8.00Venet consumption Q A7/W435 (room)KW1,79Venet consumption Q A7/W435 (room)WW4.46Venet consumption Q A7/W435 (room)WW*Power consumption Q A2/W435 (rook)KW*Power consumption Q A3/W47 (room)KW*Station quee pace lockKW*Control quee lockKW </th <th></th> <th></th> <th></th> <th></th>				
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basis     WW     *     4,46       testing capacity @ A*2/W*35 (max.)     WW     *     6,57       WW     *     6,57     5,57       WW     *     6,57     5,51       Carry efficiency Clos     *     4,46     4,46       Example efficiency Clos     *     4,46     6,00       WW     *     6,00     *     4,46       WWW     *     5,10     5,00       WWW capacity (bit/M/2     WWW     *     5,10       Compresson type      1,11     1,11       WWW supply     WWW     *     1,02     1,20,130       Wurning curreet (mxx)     A     1,920     1,51,91,50       Scatting curreet (mxx)     A     1,920     1,51,91,50	Heating capacity @ A+7/W+35 (nom.)	kW		8,00
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iooling capacity @ A+35/W+7 (nom.)kW%6,00Yower consumption @ A+35/W+7 (nom.)KW%2,00inerry efficiency EER @ A+35/W+7 (nom.)W/W%3.10inerry efficiency Cass%A++A++Compressor typeV/Ph-H/Hz220-230/1/S0Norms supplyV/Ph-H/Hz220-230/1/S0Running current (max.)A19,00Starting currentASoftstartRecommended power supply line typeA90Recommended fusingA20Communication lineC20Duddoor temperature operating range (min. max.)°C%Caple performantication linemm (inch)9.5 (3/8)Duddoor temperature operating range (min. max.)°C%4.15,9 (5/8)Spie length (min.)mm (inch)9.5 (3/8)3.003.00Spie length (min.)mm (inch)5.9 (5/8)3.003.00Spie length (min.)mm (inch)5.9 (5/8)3.003.00Spie length (min.)mm (inch)5.003.003.00Spie length (min.)mm (inch)4.15,9 (5/8)3.003.00Spie length (min.)mm (inch)5.003.003.00Spie length (min.)mm (inch)5.003.003.00Spie length (min.)mm (inch)4.15,9 (5/8)3.003.00Spie length (min.)mm (inch)5.003.003.00Spie length (min.)mm (inch)4.15,9 (5/8)3.003.00<	Energy efficiency class		*	A++
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A     19,20       starting current (max.)     A     Softstart       Recommended power supply line type     HOTRN-F 364,00     20       Recommended fusing     A     20       Communication line     HOTRN-F 364,01     20       Dutdoor temperature operating range (min-max.)     °C     *     -20/+43       Dutdoor temperature operating range (min-max.)     mm (inch)     9.5 (5/8)     -20/-143       Dutdoor temperature operating range (min-max.)     mm (inch)     9.5 (5/8)     -20/-143       Solid pressure level (next)     mm (inch)     15.9 (5/8)     -20/-143       Solid pressure level (next)	Compressor type			Twin-Rotary
An     Softstart       Recommended power supply line type     H07RN-F 364,0       Recommended fusing     A     20       Communication line     H07RN-F 461,5     20       Dutdoor temperature operating range (min-max)     °C     * -20/+43       Dutdoor temperature operating range (min-max)     °C     * -15/+43       Liquid pipe diameter     mm (inch)     9,5 (5/8)       Suction gas pipe diameter     mm (inch)     5       Pipe length (max)     m     30     30       Sound pressure level (low/med/high)     dB(A)     * 48     48       Sound pressure level (low/med/high)     dB(A)     * 63     63       Sound pressure level (night operation)     dB(A)     * 63     63       Sound	Power supply	V/Ph+N/Hz		220-230/1/50
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Sound pressure level (low/med/high)dB(A)#48Sound power leveldB(A)*65Sound power leveldB(A)*63Sound power level (night operation)dB(A)*63Sound power level (night operation)dB(A)*63Sound power level (night operation)dB(A)*63Sound power level (night operation)dB(A)*63Sound power level (night operation)dB(A)*62RefrigerantR410A862Refrigerant chargekg1,8CO2 equivalentt3,758Pre-charged up tom30Dimensions (HxWxD)mm890 x 900 x 320	Height difference (max.)	m		30
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Sound power level   dB(A)   \$   63     Sound pressure level (night operation)   dB(A)   \$   47     Sound power level (night operation)   dB(A)   \$   63     Sound power level (night operation)   dB(A)   \$   63     Sound power level (night operation)   dB(A)   \$   63     Sound power level (night operation)   dB(A)   \$   62     Refrigerant   kg   62   R410A     Refrigerant charge   kg   1,8   3,758     CO2 equivalent   m   30   30     Pre-charged up to   mm   890 x 900 x 320   900 x 320	Sound pressure level (low/med/high)	dB(A)	*	48
Sound pressure level (night operation)   dB(A)   47     Sound power level (night operation)   dB(A)   63     Sound power level (night operation)   dB(A)   63     Sound power level (night operation)   dB(A)   63     Refrigerant   dB(A)   8   62     Refrigerant charge   kg   1,8     CO2 equivalent   t   3,758     Pre-charged up to   m   30     Dimensions (HxWxD)   mm   890 x 900 x 320	Sound power level	dB(A)	*	65
Sound power level (night operation)   dB(A)   63     Sound power level (night operation)   dB(A)   62     Refrigerant   CO2   R410A     Refrigerant charge   kg   1,8     CO2 equivalent   t   3,758     Pre-charged up to   m   30     Dimensions (HxWxD)   mm   890 x 900 x 320	Sound power level	dB(A)	*	63
Sound power level (night operation)   dB(A)   *   62     Refrigerant   Kg   R410A     Refrigerant charge   kg   1,8     CO2 equivalent   t   3,758     Pre-charged up to   m   30     Dimensions (HxWxD)   mm   890 x 900 x 320	Sound pressure level (night operation)	dB(A)	*	47
Refrigerant R410A   Refrigerant charge kg 1,8   CO2 equivalent t 3,758   Pre-charged up to m 30   Dimensions (HxWxD) mm 890 x 900 x 320	Sound power level (night operation)	dB(A)	*	63
Refrigerant charge kg 1,8   CO2 equivalent t 3,758   Pre-charged up to m 30   Dimensions (HxWxD) mm 890 x 900 x 320	Sound power level (night operation)	dB(A)	*	62
CO2 equivalent     t     3,758       Pre-charged up to     m     30       Dimensions (HxWxD)     mm     890 x 900 x 320	Refrigerant			R410A
CO2 equivalent     t     3,758       Pre-charged up to     m     30       Dimensions (HxWxD)     mm     890 x 900 x 320	Refrigerant charge	kg		1,8
Pre-charged up to m 30   Dimensions (HxWxD) mm 890 x 900 x 320	CO2 equivalent			3,758
mm     890 x 900 x 320	Pre-charged up to	m		
	Dimensions (HxWxD)	mm		890 x 900 x 320
	Weight	kg		

🗱 Cooling 🔶 Heating

## TOSHIBA

### Estia R410A 8 / SET

Indoor unit			HWS-805XWHT6-E
Supply water temperature (minmax.)	°C	*	20/55
Supply water temperature (minmax.)	°C	*	7/25
Compatible outdoor units			805
Backup heater, capacity	kW		6
Backup heater, connection	Ph+N		380-400/3/50
Backup heater, recommend fusing	А		2x 16
Water pump			Non-self-suction centrifugal pump
Water flow rate (min.)	m³/h		0,78
Water flow rate (nom.)	m³/h		1,374/1,032
Water pump, power consumption (max.)	kW		0,125
Water pump, energy efficiency class			А
Water pump, discharge head (max.)	m		6,3
Expansion vessel	l		12
Water connection (inlet/outlet)	Inch		1 1/4
Sound pressure level (low/med/high)	dB(A)	*	29
Sound pressure level (low/med/high)	dB(A)	*	29
Sound power level	dB(A)	*	41
Sound power level	dB(A)	*	41
Dimensions (HxWxD)	mm		925 x 525 x 355
Weight	kg		49

#### 🏶 Cooling ` 🗮 Heating

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

