

Toshiba Air Conditioning - Estia Data Sheet

RUA-CP2101H

Estia - Air-to-Water Heat Pump



Features

- High performance and large operating range
- Twin rotary compressor and control integration
- Wired remote controller with large backlit screen
- Hydronic module with variable speed pump and expansion tank

Technical Data

Model reference		RUA-CP2101H
Power source	V-ph-Hz	400-3 + N-50
Heating capacity ^{*1}	kW	21.1
Coefficient of performance ^{*1}		4.1
Cooling capacity ^{*2}	kW	18.6
Energy efficiency ratio ^{*2}		3.1
Variable range compressor frequency	Hz	30-96
Electric characteristic ^{*1,2}	Voltage range	V
	Nominal unit current drawn (Un) ^{*2}	A
	Maximum unit power input (Un) ^{**}	kW
	Cos Phi unit at maximum power ^{**}	
	Max. unit current drawn (Un-10%) ^{***}	A
	Maximum unit current drawn (Un) ^{****}	kW
Operating noise	Sound power level ^{†3}	dB(A)
	Sound pressure level at 10 m ^{†4}	dB(A)
Outer dimension	H x W x D [†]	mm
Net weight ^{*5}		kg
Colour		Light grey (RAL 7035)
Compressor	Type	Twin rotary type with DC-inverter variable speed control
Fan motor	Quantity	2
	Max. air capacity	m ³ /h
	Max. rotational speed	rps
Remote controller (RC) ^{*6}	H x W x D	mm
Heat exchanger	Type	Plate-type heat exchange
	Water volume	l
	Max. water-side operating pressure without hydronic module	kPa
Refrigerant	Refrigerant type	R410A
	Charge amount	kg
Monobloc with variable speed hydronic module	Min. flow rate	l/s
	Max. flow rate	l/s
	Pump motor input	W
	Expansion tank volume	l
	Min. pump suction pressure	kPa
	Max. pump suction pressure	kPa
Water piping (with hydronic module)	Inlet pipe diameter	(BSP GAS inch)
	Outlet pipe diameter	(BSP GAS inch)
Water pressure relief valve	Operating pressure	mPa
Operating range ^{*7}	Cooling mode outdoor temperature	°C
	Heating mode outdoor temperature	°C
	Storage temperature	°C
	Protection level	IP44
Wiring connection	Power wiring	4 wires: including earth wire
	RC wiring	4 wires (H07RN-F)

*1 Heating performance measurement conditions: outside air temperature 7°C, water supply temperature 30°C, outlet temperature 35°C.

*2 Cooling performance measurement conditions: outside air temperature 35°C, water supply temperature 12°C, outlet temperature 7°C.

*3 In dB ref=10⁻¹² W, (A) weighting. Declared dual number noise emission values in accordance with ISO 4871 (with an associated uncertainty of ±3dB(A)). Measured in accordance with ISO 9614-1 and certified by Eurovent.

*4 Values are guidelines only. Refer to unit nameplate.

*5 In dB ref 20 µPa, (A) weighting. Declared dual number noise emission values in accordance with ISO 4871 (with an associated uncertainty of ±3dB(A)). For information, calculated from the sound power level LwA.

*6 The remote controller should be shipped with the Monobloc unit.

*7 For operation at an outdoor ambient temperature below 0°C (cooling mode and heating mode), the water freeze protection should be available and/or the water loop can be protected against frost by the installer, using an anti-freeze solution.

** Power input, compressors and fans, at the unit operating limits (saturated suction temperature 15°C, saturated condensing temperature 68.3°C) and nominal voltage of 400 V (data given on the unit nameplate).

*** Maximum unit operating current at maximum unit power input and at 360 V.

**** Maximum unit operating current at maximum unit power input and at 400 V (values given on the unit nameplate).

† Width including disconnect switch = 1141 mm.

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