

# Toyotomi SONZAI DC Inverter



Sonzai

## High performance air conditioning

The combination of technological quality, the versatility of operation and a simple and elegant design makes the Sonzai the ideal air conditioner for your home.

### Benefits



Save energy 'operating mode'



Smooth start function



Ionizer



Heating mode at 8°C



Auto restart mode



Active carbon filter



I-SENSE function



Command lock function



Auto clean function



Intelligent preheating 'SP'



Light function



Anti-corrosion protection  
'blue fins'



Turbo function



Automatic horizontal  
oscillation movement



Self Clean



Timer function



Automatic vertical  
oscillation movement



High density pre-filter



Smart defrost



Sleep mode



Anti virus filter



Self-diagnosis system



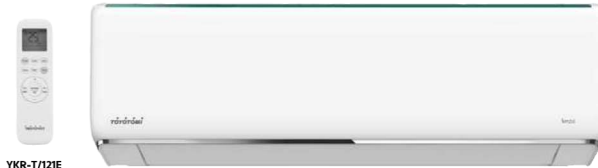
Quiet mode



Dehumidification function



Memory position air louver



YKR-T/12IE

SONZAI		Unit	THN/THG-A28SZ	THN/THG-A35SZ	THN/THG-A56SZ	THN/THG-A71SZ	
Indoor unit reference			THN-A28SZ	THN-A35SZ	THN-A56SZ	THN-A71SZ	
Outdoor unit reference			THG-A28SZ	THG-A35SZ	THG-A56SZ	THG-A71SZ	
EAN code indoor unit			5205022020530	5205022020554	5205022020578	5205022020592	
EAN code outdoor unit			5205022020547	5205022020561	5205022020585	5205022020608	
Pdesignc		kW	2.7	3.5	5.3	6.7	
Pdesignh (average zone)		kW	2.7	2.7	4.4	5.7	
Pdesignh (warmer zone)		kW	3.4	3.4	5.0	7.0	
Cooling capacity		Btu/h	9212 (2047-12966)	11942 (2730-13989)	18084 (4436-20131)	24908 (6142-25249)	
		kW	2.70 (0.60-3.80)	3.50 (0.80-4.10)	5.30 (1.30-5.90)	7.30 (1.80-7.40)	
Heating capacity		Btu/h	10236 (2730-14330)	12966 (3412-14330)	19107 (4436-20472)	24908 (6142-27286)	
		kW	3.00 (0.80-4.20)	3.80 (1.00-4.20)	5.60 (1.30-6.00)	7.30 (1.80-8.00)	
Cooling		SEER	6.4	6.2	7.0	6.5	
		Cooling energy class	A++	A++	A++	A++	
Heating		SCOP average zone	4.0	4.0	4.2	4.1	
		Energy class average zone	A+	A+	A+	A+	
		SCOP warmer zone	5.2	5.2	5.3	5.3	
		Energy class warmer zone	A+++	A+++	A+++	A+++	
Rated voltage / rated frequency / phase*		V/Hz/PH	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	
Cooling		Annual electricity consumption (QCE)	kWh/a	148	198	265	359
		Power input**	kW	0.80	1.08	1.58	2.20
		Current	A	3.80	5.60	7.50	10.00
Heating		Annual electricity consumption average zone (QHE)	kWh/a	938	938	1470	1950
		Annual electricity consumption warmer zone (QHE)	kWh/a	917	914	1321	1859
		Power input**	kW	0.83	1.05	1.55	2.01
		Current	A	4.10	4.90	7.00	9.50
Dehumidification		L/h	1.00	1.00	1.60	2.50	
Air flow volume (L/M/H/SH)		m <sup>3</sup> /h	400/500/550/600	400/500/550/600	550/650/730/850	870/1010/1150/1300	
Sound power level of indoor unit (SL/L/M/H/SH)		dB(A)	35/42/47/51/54	35/42/47/51/53	37/47/51/54/57	41/48/54/56/63	
Sound pressure level of indoor unit (SL/L/M/H/SH)***		dB(A)	22/30/34/38/41	22/30/34/38/41	24/34/38/42/45	28/36/42/44/48	
Sound power level of outdoor unit (HL)		dB(A)	61	62	62	66	
Sound pressure level of outdoor unit (HL)***		dB(A)	50	50	51	52	
Indoor unit		Unit dimensions (WxHxD)	mm	788x292x198	788x292x198	940x316x224	1121x329x231
		Package dimensions (WxHxD)	mm	855x350x270	855x350x270	1010x385x310	1205x400x317
		Net/gross weight	kg	8/10	8.5/10.5	11.5/13.5	14/16
		Shielded communication cable (between IDU & ODU)	qty x mm	4x1.5+T	4x1.5+T	4x1.5+T	4x1.5+T
Outdoor unit		Unit dimensions (WxHxD)	mm	705x530x279	705x530x279	785x555x300	900x700x350
		Package dimensions (WxHxD)	mm	825x595x326	825x595x326	888x590x367	1020x770x430
		Net/gross weight	kg	22.5/26.5	22.5/26.5	28/32	39/43
		Power cable	qty x mm	2x2.5+T	2x2.5+T	2x2.5+T	2x2.5+T
Pipe		Liquid	mm (inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
		Gas	mm (inch)	9.53(3/8")	9.53(3/8")	12.70(1/2")	15.88(5/8")
		Maximum pipe length without adding refrigerant	m	5	5	5	5
		Maximum pipe length with adding refrigerant	m	20	20	25	25
		Maximum pipe height	m	10	10	15	15
Refrigerant charge (R32)		g	560	560	1030	1300	
Refrigerant additional charge		g/m	20	20	30	30	
Filter			Hi density pre filter - Antivirus - Active carbon				
Operation temperature limit		Cooling	°C	16~49	16~49	16~49	16~49
		Heating	°C	-15~30	-15~30	-15~30	-15~30

Harmonised standard: EN 14511 : 2007, EN 12102 - Global Warming Potential (GWP)

Note: \*The power supply is on the outdoor unit \*\*The technical data comply with the UNI EN 14511/2004 standard \*\*\*Measured in free field