

SO GREEN AIR CON LTD.

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100% 48V DC Inverter Solar Air Conditioner(Off Grid)

Air conditioner specification list

Main Features of Wall split DC48V R410a

- 1.Up and Down air outlet
- 2.Low noise
- 3.Sleep mode
- 4.Turbo mode
- 5.Automatic Restart function
- 6.Automatic temperature adjustment
- 7.Super -quality internal threaded copper pipe
- 8.Multi-folds evaporator
9. Special features of filters



Specification of Wall split							
Model			KFR-26GW/BP	KFR-35GW/BP	KFR-50GW/BP	KFR-70GW/BP	KFR-100GW/DCBPA
			9000BTU/0.75TON/1HP	12000BTU/1TON/1.5HP	18000BTU/1.5TON/2HP	24000BTU/2TON/3HP	36000BTU/3TON/4HP
Power supply		Ph-V-Hz	DC48V	DC48V	DC48V	DC48V	48V DC (45V ~ 55V)
Cooling	Capacity	Btu/h	9000	12000	18000	24000	36000 (6500-37500)
	Input	W	475	635	888	1310	1980 (320-2600)
	Rated current	A	9.89	13.23	18.5	27.29	41.25 (6.67-54.17)
	EER	W/W	5.35	5.28	5.18	4.98	4.81
Heating	Capacity	Btu/h	9500	13000	19000	25000	37500 (7000-39000)
	Input	W	462	620	885	1285	2039 (350-2700)
	Rated current	A	9.63	12.92	18.43	26.78	42.48 (7.29-56.25)
Moisture Removal		L/h	1.0	1.3	1.7	2.5	3.6
Max. input consumption		W	1050	1200	1500	1800	3000
Max. current		A	21.87	25	31.25	37.5	62.5

Starting current		A	1.5	2	3	3.5	1.5
Compressor	Model		DA89M1C-20FZ3	DA98M1C-30EZ	DA130S1C-20FZ	DA150S1C-20FZ	ATF235D22TMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		TOSHIBA(GMCC)	TOSHIBA(GMCC)	TOSHIBA(GMCC)	TOSHIBA(GMCC)	TOSHIBA(GMCC)
	Capacity	Btu/h	9036	9889	13128	15175	24293
	Thermal protector		INT01L-4639 / CS-74	NO	INT01L-4639 or KSD301	INT01L-4639 or KSD301	NO
	Thermal protector position		EXTERNAL	INTERNAL	EXTERNAL	EXTERNAL	EXTERNAL
	Capacitor	uF	NO	NO	NO	NO	NO
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 / 370	ESTER OIL VG74 / 480	ESTER OIL VG74 / 500	ESTER OIL VG74 / 500	RB75EA/670 cc
Indoor fan motor	Model		ARW7601WR	ARW7601WR	ARW7202WR	ARW7202WR	SIC-55CVL-F159-1(ZKFP58-8-1)
	Brand		panasonic	panasonic	Panasonic	Panasonic	ZHIPU
	Input	W	10	10	25	25	58
	Capacitor	uF	NO	NO	NO	NO	NO
	Speed(Hi/Mi/Lo)	r/min	1150/950/780	1150/950/780	1250/1000/800	1250/1000/800	1200/1000/850
Indoor coil	a.Number of rows		15	15	20	20	2
	b.Tube pitch(a)x row pitch(b)	mm	21x12.7	21x12.7	20.5*13	20.5*13	21x13.37
	c.Fin spacing	mm	1.45	1.45	1.5	1.5	1.3
	d.Fin type (code)		blind	blind	blind	blind	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	628*315*25.4	628*315*25.4	818*369*26	818*369*26	780x315x26.74
	g.Number of circuits		3	3	4	4	4
	h.Material and coatings		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
Static pressure	MPa	1.5	1.5	1.5	1.5	1.5	
Indoor air flow (Hi/Mi/Lo)	m3/h	600/450/330	600/450/330	950/750/600	950/750/600	970/780/590	
Indoor noise level (Hi/Mi/Lo)	dB(A)	<40/33/28	<40/33/28	≤45/40/35	≤45/40/35	45/36/31.5	
Indoor unit	Dimension(W*D*H)	mm	795*285*215	795*285*215	1090*330*230	1090*330*230	1040x220x327
	Packing (W*D*H)	mm	905*370*283	905*370*283	1145*375*305	1145*375*305	1120x310x405
	Net/Gross weight	Kg	11.2/14.8	11.2/14.8	16.5/19	16.5/19	11.9/15.2
Outdoor fan motor	Model		ARW4401DP	ARW4401DP	Y09-9538-907	Y09-9538-907	Y09-9538-907
	Brand		Panasonic	Panasonic	Shinano	Shinano	Shinano
	Input	W	75	75	130	130	120
	Capacitor	uF	NO	NO	NO	NO	NO
	Speed	r/min	850	850	1000	1000	850

Outdoor coil	a.Number of rows		24	24	34	34	4
	b.Tube pitch(a)x row pitch(b)	mm	20.5*13	20.5*13	20.5*13	20.5*13	25.4x22
	c.Fin spacing	mm	1.4	1.45	1.5	1.5	1.5
	d.Fin type (code)		blind	blind	blind	blind	blind
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ9.52,innergroove tube
	f.Coil length x height x width	mm	719*492*26+560*492*13	719*492*26+560*492*13	807*700*26	807*700*26	1031*762*44+580*762*22
	g.Number of circuits		2.5	2.5	2	2	2.5
	h.Material and coatings		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
Outdoor air flow	m ³ /h		1350	1600	2400	2400	3800
Outdoor noise level	dB(A)		<48	<50	≤56	≤56	≤64
Outdoor unit	Dimension(W*D*H)	mm	760*255*525	760*255*525	865*310*710	865*310*710	946x410x810
	Packing (W*D*H)	mm	890*360*590	890*360*590	1025*395*790	1025*395*790	1090x500x860
	Net/Gross weight	Kg	33/39	35/40	53/58	56/61	65/73
Refrigerant type and charge volume	g		R410a(950)	R410a(1050)	R410a(1350)	R410a(1550)	R410a(3000)
Design pressure	MPa		4.3/1.5	4.3/1.5	4.3/1.5	4.3/1.5	4.3/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	1/2 1/4	1/2 1/4	7/8 3/8	7/8 3/8	3/4 3/8
	Max. refrigerant pipe length	m	15	15	20	25	30
	Max. difference in level	m	8	8	10	10	15
Drain pipe size	mm		16	16	16	16	18
Connection wiring	m		3..8	3.8	3.8	3.8	4.3
DC48V power incoming line	m ²		≥4	≥4	≥6	≥6	≥10
Thermostat type			NTC	NTC	NTC	NTC	NTC
Expansion valve type			DPF(Q)-1.3C-01R	DPF(Q)-1.3C-01R	DPF(Q)-1.65C	DPF(Q)-1.65C	DPF(Q)-2.4C-01R
Expansion valve type Brand			SANHUA	SANHUA	SANHUA	SANHUA	SANHUA
Operation temp	℃		16℃~31℃	16℃~31℃	16℃~31℃	16℃~31℃	17℃~32℃
Ambient temp (cooling/heating)	℃		18-50/-15-34	18-50/-15-34	18-50/-15-34	18-50/-15-34	18-52/-15-34
Application area	m ²		10-20	15-25	25-40	30-45	47-63
Refrigerant piping	In side/ Out side	mm	12.7/11.1、6.35/5.12	12.7/11.1、6.35/5.12	9.52/8.12、15.88/14.08	9.52/8.12、15.88/14.08	15.88/13.88、9.52/8.12
Refrigerant pipinglength	m		3	3	3	3	3
Cabined material			Galvanized sheet	Galvanized sheet	Galvanized sheet	Galvanized sheet	Galvanized sheet
