



STAR AIR KONTROL



MULTIZONE & SINGLE ZONE

12 - 24K | 3, 4, & 5 TON



Bedrooms | Living Rooms | Dining Rooms | Home Offices | Sunrooms | Basements | Computer / Server Rooms



1911 East Ball Road, Anaheim, CA 92805

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www.starairkontrol.com

STANDARD FEATURES

Premier Hyper Mid Static ducted brings up to 150% higher static pressure than standard models - which means more flexibility, as you can duct a large area with only one unit and feel seamless comfort all around with minimum hassle. Installation flexibility continues with an industry-leading ultra slim design, easy conversion to vertical or horizontal discharge and up to 213ft of piping. Hyper Heating and high ambient cooling enables the unit to work with temperatures from -22F to 122F.

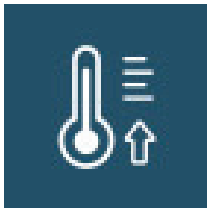
Higher Static Pressure

for Advanced Applications with **Ultra-Slim Design**



Hyper Heating Operation

so when it's **COLD** outside, it's **WARM** inside.



Energy Star

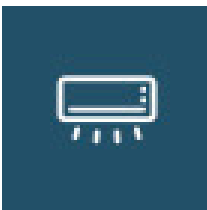
so you **SAVE** on bills.



* selected models only

Universal Matching

so you can connect **up to 5 units**.



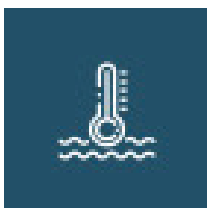
Flexible Air Intake

Fresh air inlet can be installed easily at the back or the bottom of the piping to allow fresh air to circulate in a space.



Built-In Drain Pump

to prevent water build up, the built-in drain pump can lift condensed water **up to 29"** for release through drainage pipes.



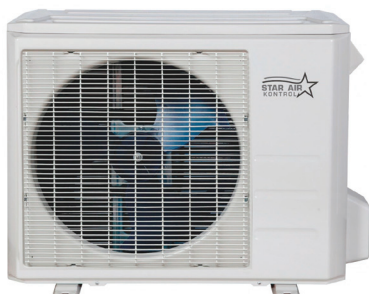
Auto Restart Function

retain previous mode and settings without the need to power up in the event of a power failure.



12K, 18K, 24K | INDOOR

Indoor type		Duct		Duct		Duct	
Model		SAK-120/MS/220V (in)		SAK-180/MS/220V (in)		SAK-240/MS/220V (in)	
Power supply		Ph-V-Hz		208-230V-1-60		208-230V-1-60	
Minimum circuit ampacity		A		1.3		1.9	
Max fuse		A		15		15	
Indoor fan motor	Model	ZKFN-55-8-1		ZKFN-90-8-1		ZKFN-90-8-1	
	Qty	1		1		1	
	Input	W		55(Output)		90(Output)	
	RLA	A		1		1.5	
	LRA	A		/		/	
	Winding Resistance	Ω		/		/	
	Capacitor	uF		/		/	
	Speed	r/min		1100/960/830		1090/950/860	
Indoor coil	Number of rows	3		3		4	
	Tube pitch(a)*row pitch(b)	mm		21x13.37		21x13.37	
		inch		0.83x0.53		0.83x0.53	
	Fins/inch	16		16		16	
	Fin type	Hydrophilic aluminium		Hydrophilic aluminium		Hydrophilic aluminium	
	Tube outside dia. and type	mm		Φ7, innergroove tube		Φ7, innergroove tube	
	Coil length*height*width	mm		515x252x40.11		733x252x53.48	
		inch		20.27x9.92x1.58		28.86x9.92x2.11	
Number of circuits		4		4		6	
Indoor air flow (Hi/Med/Lo) (No duct)		m³/h		629/544/442		884/731/612	
Indoor air flow (Hi/Med/Lo) (No duct)		CFM		370/320/260		520/430/360	
ESP	Range	Pa		0-45		0-70	
	Range	In. WG		0-0.18		0-0.28	
Indoor noise level (Hi/Med/Lo) (Standard pressure)		dB(A)		40/38/33		36/34/30	
Throttle type		/		/		/	
Indoor unit	Dimension (WxDxH)(body)	mm		700x635x210		920x635x210	
	Dimension (WxDxH)(body)	inch		27.56x25x8.27		36.22x25x8.27	
	Packing (WxDxH)(body)	mm		915x655x290		1135x655x350	
	Packing (WxDxH)(body)	inch		36.02x25.79x11.42		44.68x25.79x11.42	
	Dimension (WxDxH)(panel)	mm		/		/	
	Dimension (WxDxH)(panel)	inch		/		/	
	Packing (WxDxH)(panel)	mm		/		/	
	Packing (WxDxH)(panel)	inch		/		/	
	Net/Gross weight(body)	kg		18.1/22.8		23/29	
	Net/Gross weight(body)	lbs		39.9/50.27		50.7/63.93	
	Net/Gross weight(panel)	kg		/		/	
	Net/Gross weight(panel)	lbs		/		/	
Design pressure		PSIG		550/340 PSIG		550/340 PSIG	
Drainage water pipe diameter		mm		OD#25		OD#25	
Refrigerant piping		Liquid side/ Gas side		Φ6.35/Φ12.7(1/4"/1/2")		Φ6.35/Φ12.7(1/4"/1/2")	
Controller		Wired control		Wired control		Wired control	
Room temperature	Cooling	℃		17~32		17~32	
	Cooling	℉		62~90		62~90	
	Heating	℃		0~30		0~30	
	Heating	℉		32~86		32~86	
Operation temperature		℃		17~30		17~30	
Qty per 20' /40' /40'HQ		℉		62~86		62~86	
				173/340/380		134/270/310	
						110/230/280	



18K, 27K, 36K, 48K | OUTDOOR

Model			SAK-18-00 *	SAK-27-00	SAK-36-00	SAK-48-00	
Power supply		Ph-V-Hz	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	
Cooling	Capacity	Btu/h	18000	27000	36000	48000	
	Capacity Range	Btu/h	4197~19900	6630~30600	8190~38500	9560~53500	
	Total Input	W	408~2003	670~3210	920~432.5	855~4795	
	EER	Btu	12.5	12.0	10.9	11.6	
	SEER		21.3	22.0	22.5	21.5	
	Capacity	Btu/h	18000	28000	36000	48000	
Heating at 47F	Capacity Range	Btu/h	2225~23475	3690~32860	4940~38000	6850~53980	
	Total Input	W	347~2142	1400~3530	1070~2965	995~5160	
	COP		3.7	3.7	3.1	3.4	
	HSPF4		10	9.8	10.3	10.4	
	HSPF5		8.6	8.0	9.0	8.6	
	Rated capacity	Btu/h	11800	16800	25400	30800	
heating at 17F	maximum capacity	Btu/h	14200	20900	28800	35800	
heating at 5F~15°C		A	18.0	25.0	30.0	35.0	
MINIMUM CIRCUIT AMPACITY		A	25.0	35.0	45.0	50.0	
MAX FUSE							
Compressor	Model		ATM150D23UF2	ATP235D22UMT	ATF310D43UMT	ATG360D1UMU	
	Type		ROTARY	ROTARY	ROTARY	Twin-ROTARY	
	Brand		GMCC	GMCC	GMCC	GMCC	
	Capacity	Btu/h	15388	24345	32380	38214	
	Input	W	1170	1970	2600	3040	
	Rated current(RLA)	A	10	20.00	22.00	21.00	
	Refrigerant oil/ oil charge	ml	VG74/500	POE(VG74)/670	POE(VG74)/1000	Ester Oil VG74/1400	
	Brand		Shibaura	Welling	Welling	Welling	
	Input	W	50(Output)	120(Output)	120(Output)	85(Output)	
	RLA	A	0.74	0.9	1.3	0.39	
Outdoor fan Motor	Speed	r/min	150 - 850	150 - 10000	150 - 10000	150 - 870	
		m³/h	2362	3619	3619	7546	
Outdoor air flow		CFM	1390	2130	2130	4500	
Outdoor noise level		dB(A)	62.4	63.4	62.3	64	
Outdoor unit	Dimension(W*D*H)	mm	845x363x702	946x410x810	946x410x810	952x415x1333	
	Dimension(W*D*H)	inch	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (W*D*H)	mm	965x395x755	1090x500x875	1090x500x875	1095x495x1480	
	Packing (W*D*H)	inch	37.99x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	43.1x19.49x58.27	
	Net/Gross weight	Kg	48/52	68/73	71/76	101/115.7	
	Net/Gross weight	lbs	106.82/114.64	149.91/160.94	156.53/167.55	223.77/256.07	
Refrigerant type		oz	R410A/70.5	R410A/98.8	R410A/105.8	R410A/125.3	
Refrigerant precharge(Total pipe length)		ft	50	75	100	162	
Additional charge for each ft		oz	0.161	0.161	0.161	0.32	
Design pressure		PSIG	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side - Gas side	inch	2x1/4" - 2x3/8"	3x1/4" - 3x3/8"	4x1/4" - 3x3/8" + 1x1/2"	5x1/4" - 3x3/8" + 2x1/2"	
	Max. length for all rooms	m	30	45	60	75	
	Max. length for all rooms	ft	98	148	197	246	
	Max. length for one indoor unit	m	20	25	30	30	
	Max. length for one indoor unit	ft	66	82	98	98	
	Max. height difference between indoor and outdoor unit	OU higher than IU	ft	10	10	10	10
		OU higher than IU	ft	33	33	33	33
		OU lower than IU	m	15	15	15	15
		OU lower than IU	ft	49	49	49	49
	Max. height difference between indoor units	m	10	10	10	10	
	ft	33	33	33	33		
Connection wiring		NO	NO	NO	NO		
Ambient temperature	cooling	°F	-25~-50	-25~-50	-25~-50	-25~-50	
	cooling	°F	-13~-122	-13~-122	-13~-122	-13~-122	
	heating	°F	-25~-30	-25~-30	-25~-30	-25~-30	
	heating	°F	-13~-86	-13~-86	-13~-86	-13~-86	
Qty/per 20' /40' /40'HQ		outdoor unit	102/216/216	44/95/144	44/95/144	22/46/46	



3 TON INDOOR | OUTDOOR

Indoor Model			SAK-36-DTMS/220V
Power supply		V-ph-Hz	208~230-1-60
Cooling	Capacity	Btu/h	36000
	EER	Btu/W	8.5
	SEER		15.5
Heating at 47F	Capacity	Btu/h	38000
	COP	Btu/W	10.2
	HSPF4		10.5
	HSPF5		8.7
Minimum circuit ampacity		A	30
Max.fuse		A	50
Indoor fan motor	Model		ZKFN-150-8-1
	Old Model		WZDK150-38GS-W
	Qty		1
	Input	W	150(Output)
	RLA	A	1.5
	LRA	A	/
	Winding Resistance	Ω	/
	Capacitor	uF	/
Speed		r/min	1070/950/760
Indoor air flow (Hi/Med/Lo) (No duct)		m³/h	1904/1598/1156
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	1120/940/680
ESP	Range	Pa	0-100
	Range	Pa	0-0.40
Indoor noise level (Hi/Med/Lo) (标准静压下)		dB(A)	53/51/47
Throttle type			/
Indoor unit	Dimension (WxDxH)	mm	1140x775x270
		inch	44.88x30.51x10.63
	Packing(WxDxH)	mm	1355x795x350
		inch	53.35x31.3x13.78
Net/Gross weight		kg	34/40.5
		lbs.	74.96/89.29
Design pressure		PSIG	550/340 PSIG
Drainage water pipe diameter		mm	ODΦ25
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control
Room temperature	Cooling	℃	17~32
		℉	62~90
	Heating	℃	0~30
		℉	32~86
Operation temperature		℃	17~30
		℉	62~86
Outdoor Model			SAK-36-DTMS/220V
Power supply		V- Ph-Hz	208-230~1-60
Max. fuse		A	50.0
Minimum circuit ampacity		A	30.0
Compressor	Model		ATF310D43UMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	32823
	Input	W	2570
	Rated current (RLA)	A	22.00
	Locked rotor Amp(LRA)	A	-----
	Thermal protector position		EXTERNAL
	Capacitor	uF	-----
	Refrigerant oil	ml	ESTER OIL VG74/1000
Outdoor fan motor	Model		ZKFN-120-8-2
	Old Model		
	Qty		1
	Input	W	120(Output)
	RLA	A	1.0
	LRA	A	-----
	Winding Resistance	Ω	-----
	Capacitor	uF	-----
Speed		r/min	950
Outdoor air flow (Max.)		m³/h	4300
Outdoor air flow (Max.)		CFM	2530
Outdoor noise level		dB(A)	66
Throttle type			Capillary +EXV
Outdoor unit	Dimension (W×D×H)	mm	946x410x810
		inch	37.24x16.14x31.89
	Packing (W×D×H)	mm	1090x500x865
		inch	42.91x19.69x34.06
	Net/ Gross weight	kg	67.4/73
		lbs.	148.59/160.94
Refrigerant type/C Type/Charged volume		Oz	R410A/108
Refrigerant precharge		ft	25
Additional charge for each ft		oz	0.32
Design pressure		PSIG	550/340
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")
		m	65
	Max. pipe length	ft	213
		m	30
Ambient temperat	Cooling	℃	-15~50
		℉	5~122
	Heating	℃	-15~30
		℉	5~86

SINGLE ZONE



4 TON INDOOR | OUTDOOR

Indoor Model			SAK-48-DTMS/220V
Power supply		V-ph-Hz	208~230-1-60
Cooling	Capacity	Btu/h	48000
	EER	Btu/W	8.9
	SEER		17.4
Heating at 47F	Capacity	Btu/h	49500
	COP	Btu/W	
	HSPF4		10.3
	HSPF5		8.8
Minimum circuit ampacity		A	35
Max.fuse		A	50
Indoor fan motor	Model		ZKFN-240-8-1
	Old Model		WZDK240-38GS-W
	Qty		1
	Input	W	240(Output)
	RLA	A	1.8
	LRA	A	/
	Winding Resistance	Ω	/
	Capacitor	uF	/
Speed		r/min	1090/950/850
Indoor air flow (Hi/Med/Lo) (No duct)		m³/h	2499/2006/1598
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	1470/1180/940
ESP	Range	Pa	0-100
	Range	Pa	0-0.40
Indoor noise level (Hi/Med/Lo) (标准静压下)		dB(A)	52 /49/46
Throttle type			/
Indoor unit	Dimension (WxDxH)	mm	1200x865x300
		inch	47.24x34.06x11.81
	Packing(WxDxH)	mm	1405x920x373
		inch	54.53x36.22x14.69
	Net/Gross weight	kg	45/53
		lbs.	99.21/116.84
Design pressure		PSIG	550/340 PSIG
Drainage water pipe diameter		mm	ODΦ25
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control
Room temperature	Cooling	℃	17~32
		℉	62~90
	Heating	℃	0~30
		℉	32~86
Operation temperature		℃	17~30
		℉	62~86
Outdoor Model			SAK-48-DTMS/220V
Power supply		V- Ph-Hz	208-230~1-60
Max. fuse		A	50
Minimum circuit ampacity		A	35
Compressor	Model		ATQ420D1UMU
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44697
	Input	W	3420
	Rated current (RLA)	A	23.5
	Locked rotor Amp(LRA)	A	---
	Thermal protector position		INTERNAL
	Capacitor	uF	---
	Refrigerant oil	ml	Ester Oil VG74/1400
Outdoor fan motor	Model		ZKFN-85-8-22
	Old Model		
	Qty		2
	Input	W	85(Output)
	RLA	A	0.39
	LRA	A	---
	Winding Resistance	Ω	---
	Capacitor	uF	---
	Speed	r/min	900
Outdoor air flow (Max.)		m³/h	7600
Outdoor air flow (Max.)		CFM	4470
Outdoor noise level		dB(A)	62.5
Throttle type			Capillary +EXV
Outdoor unit	Dimension (W×D×H)	mm	952x415x1333
		inch	37.48x16.34x52.48
	Packing (W×D×H)	mm	1095x495x1480
		inch	43.11x19.49x58.27
	Net/ Gross weight	kg	98.6/111.6
		lbs.	217.4/246.0
Refrigerant type/Q Type/Charged volume		Oz	R410A/148.2
Refrigerant precharge		ft	25
Additional charge for each ft		oz	0.32
Design pressure		PSIG	550/340
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")
		m	65
	Max. pipe length	ft	213
		m	30
Ambient temperat	Cooling	℃	-15~50
		℉	5~122
	Heating	℃	-15~30
		℉	5~86

SINGLE ZONE



5 TON INDOOR | OUTDOOR

Model		60K	
Power supply	Voltage type		208/230V, 1Ph
	Supply frequency		60Hz
Fan motor	Model		ZKFN-700-S-1
	Input	W	420.0
	RLA (Rated current)	A	3.65
	RLA (Certification)	A	0
	LRA (Locked rotor amp)	A	/
	Speed(Hi/Mi/Lo)	r/min	1060/910/790
	Capacitor	µF	/
	Capacitor class		/
	Winding resistance	Ω	/
	Insulation class		B
Evaporator	Waterproofing class		/
	Number of rows		4.0
	Tube outside dia	mm	99.52
	Tube outside type		Inner groove tube
	Tube pitch(a) x row pitch(b)	mm	25.4x22
	Fin spacing	mm	1.5
	Fin type (code)		Hydrophilic aluminum
	Coil length x height x width	mm	1195x457x88
	Number of circuits		9
	Body Length(W)	mm	1400
Dimension(W*D*H)		inch	55.12
	Body Width(D)	mm	858
		inch	33.78
	Body Height(H)	mm	440
Packing(W*D*H)		inch	17.32
	Packing Length(W)	mm	1605
		inch	63.19
	Packing Width(D)	mm	910
Net/Gross weight		inch	35.83
	Packing Height(H)	mm	505
		inch	19.88
	Net weight	Kg	74
Indoor side air flow(SH/Hi/Mi/Lo/Si)		lb	163.14
	Gross weight	Kg	86
		lb	189.60
	Indoor side air flow(SH)	m3/h	3915
		CFM(ft3/min)	2302.94
	Indoor side air flow(Hi)	m3/h	3665
		CFM(ft3/min)	2155.88
	Indoor side air flow(Mi)	m3/h	2906
		CFM(ft3/min)	1799.41
	Indoor side air flow(Lo)	m3/h	2145
Drainage water pipe dia		CFM(ft3/min)	1261.76
	Indoor side air flow(Si)	m3/h	0
ESP		CFM(ft3/min)	0
	Drainage water pipe dia		ODφ25mm
	Rated	Pa	50
Range		Pa	0-200
		ln. wg	
Model		60K	
Power supply	Voltage type		208/230V, 1Ph
	Supply frequency		60Hz
Max Input consumption	Max Input consumption	W	6000
	Max Current	A	26
Compressor	Model		AT0420D1UMU
	Type		ROTARY
	Brand		GMCC
	Capacity	W	13100
	Input	W	3420
	Rated current	A	6.85
	Rated current(Certification)	A	/
	LRA (Locked rotor amp)	A	/
	Thermal protector		/
	Thermal protector position		NA
Outdoor Fan motor	Capacitor	µF	/
	Refrigerant oil/oil charge	mL	VG74/1400
	Model		ZKFN-85-S-22
	Input	W	126.0
	RLA (Rated current)	A	1.178
	RLA (Certification)	A	0
	LRA (Locked rotor amp)	A	/
	Winding resistance	Ω	/
	Speed(High/Mi/Low)	r/min	900/800
	Capacitor	µF	/
Outdoor Fan motor 2	Capacitor class		/
	Insulation class		E
	Waterproofing class		/
	Model		ZKFN-85-S-22
	Input	W	126.0
	RLA (Rated current)	A	1.178
	LRA (Locked rotor amp)	A	/
	Winding resistance	Ω	/
	Speed(High/Mi/Low)	r/min	900/850/800/750
	Capacitor	µF	/
Condenser	Capacitor class		/
	Insulation class		E
	Waterproofing class		/
	Number of rows		3.0
	Tube outside dia	mm	φ7
	Tube outside type		Inner groove tube
	Tube pitch(a) x row pitch(b)	mm	21x13.37
	Fin spacing	mm	1.4
	Fin type (code)		Hydrophilic aluminum
	Coil length x height x width	mm	985x1260x40.11
Condenser 2	Number of circuits		14
	Number of rows		3.0
	Tube outside dia	mm	φ7
	Tube outside type		Inner groove tube
	Tube pitch(a) x row pitch(b)	mm	21x13.37
	Fin spacing	mm	1.4
	Fin type (code)		Hydrophilic aluminum
	Coil length x height x width	mm	985x1260x40.11
	Number of circuits		14
	Outdoor side air flow(Hi)	m3/h	7500
Dimension(W*D*H)		CFM(ft3/min)	4411.76
	Body Length(W)	mm	952
		inch	37.48
	Body Width(D)	mm	415
Packing(W*D*H)		inch	16.34
	Body Height(H)	mm	1333
		inch	52.48
	Packing Length(W)	mm	1095
Net/Gross weight		inch	43.11
	Packing Width(D)	mm	495
		inch	19.49
	Packing Height(H)	mm	1480
Refrigerant		inch	58.27
	Net weight	Kg	102.1
		lb	225.09
	Gross weight	Kg	115.4
		lb	254.41
	Refrigerant type		R410A
Additional refrigerant per metre	Refrigerant charge		163
	Refrigerant charge unit		oz
	GWP(EU)		/
	CO2 Quantity(EU)		/
		g/m	30
		oz/ft	0.32

12K, 18K, 24K INDOOR | OUTDOOR

Indoor type		Duct		Duct		Duct	
0		SAK-12DTMS/220V (in)		SAK-18DTMS/220V (in)		SAK-24DTMS/220V (in)	
Power supply	Ph-V-Hz	208-230-1-60		208-230-1-60		208-230-1-60	
Minimum circuit ampacity	A	1.3		1.9		2.5	
Max.fuse	A	15		15		15	
Indoor fan motor	Model	ZKFN-55-8-1		ZKFN-90-8-1		ZKFN-90-8-1	
	Qty	1		1		1	
	Input	W	55(Output)	90(Output)		90(Output)	
	RLA	A	1	1.5		2	
	LRA	A	/	/		/	
	Winding Resistance	Ω	/	/		/	
	Capacitor	uF	/	/		/	
	Speed	r/min	1100/960/830	1090/950/860		1020/840/750	
Indoor coil	Number of rows	3		3		4	
	Tube pitch(a)*row pitch(b)	mm	21x13.37	21x13.37		21x13.37	
		inch	0.83x0.53	0.83x0.53		0.83x0.53	
	Fins/inch	16		16		16	
	Fin type	Hydrophilic aluminium		Hydrophilic aluminium		Hydrophilic aluminium	
	Tube outside dia.and type	mm	Φ7, innergroove tube	Φ7, innergroove tube		Φ7, innergroove tube	
	Coil length*height*width	mm	515x252x40.11	733x252x40.11		733x252x53.48	
		inch	20.27x9.92x1.58	28.86x9.92x1.58		28.86x9.92x2.11	
	Number of circuits	4		4		6	
Indoor air flow (Hi/Med/Lo) (No duct)	m³/h	629/544/442		884/731/612		1394/1054/884	
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	370/320/260		520/430/360		820/620/520	
ESP	Range	Pa	0-45	0-70		0-100	
	Range	In. WG	0-0.18	0-0.28		0-0.40	
Indoor noise level (Hi/Med/Lo) (Standard pressure)		dB(A)	40/38/33	36/34/30		50/46/45	
Indoor unit	Dimension (WxDxH)(body)	mm	700x635x210	920x635x210		920x635x270	
	Dimension (WxDxH)(body)	inch	27.56x25x8.27	36.22x25x8.27		36.22x25x10.63	
	Packing (WxDxH)(body)	mm	915x655x290	1135x655x290		1135x655x350	
	Packing (WxDxH)(body)	inch	36.02x25.79x11.42	44.68x25.79x11.42		44.68x25.79x13.78	
	Dimension (WxDxH)(panel)	mm	/	/		/	
	Dimension (WxDxH)(panel)	inch	/	/		/	
	Packing (WxDxH)(panel)	mm	/	/		/	
	Packing (WxDxH)(panel)	inch	/	/		/	
	Net/Gross weight(body)	kg	18.1/22.8	23/29		26/31	
	Net/Gross weight(body)	lbs.	39.90/50.27	50.7/63.93		57.32/68.34	
	Net/Gross weight(panel)	kg	/	/		/	
	Net/Gross weight(panel)	lbs.	/	/		/	
Design pressure	PSIG	550/340 PSIG		550/340 PSIG		550/340 PSIG	
Drainage water pipe diameter	mm	ODΦ25		ODΦ25		ODΦ25	
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")		Φ9.52/Φ15.9(3/8"/5/8")	
Controller		Wired control		Wired control		Wired control	
Room temperature	Cooling	℃	17~32	17~32		17~32	
	Cooling	℉	62~90	62~90		62~90	
	Heating	℃	0~30	0~30		0~30	
	Heating	℉	32~86	32~86		32~86	
Operation temperature		℃	17~30	17~30		17~30	
		℉	62~86	62~86		62~86	
Outdoor Model		ZKFN-40-8-1L		ZKFN-50-8-2		ZKFN-120-8-2	
Outdoor fan motor	Brand	Welling		Welling		Welling	
	Input	W	40(Output)	50(Output)		120(Output)	
	RLA	A	----	----		----	
	LRA	A	----	----		----	
	Winding Resistance	Ω	----	----		----	
	Capacitor	uF	----	----		----	
	Speed	r/min	----	----		----	
Outdoor air flow	m³/h	1900		2500		4000	
Outdoor air flow	CFM	1120		1470		2355	
Outdoor noise level	dB(A)	57.5		61		61	
Outdoor unit	Dimension(W*D*H)	mm	800x333x554	845x363x702		946x420x810	
	Dimension(W*D*H)	inch	31.50x13.11x21.81	33.27x14.29x27.64		40.55x16.54x31.89	
	Packing (W*D*H)	mm	920x390x615	965x395x755		1090x500x865	
	Packing (W*D*H)	inch	36.22x15.35x24.21	38.00x15.55x29.72		42.91x19.69x34.06	
	Net/Gross weight	Kg	37/40	45.8/49.1		62/66.8	
	Net/Gross weight	lbs.	81.6/88.2	101.0/108.2		136.69/147.27	
Refrigerant type	g	R410A1151g		R410A/1950g		R410A/2350g	
Refrigerant type	oz	R410A/40.6		R410A/68.8		R410A/82.9	
Refrigerant precharge	ft	25		25		25	
Additional charge for each ft	oz	0.161		0.161		0.322	
Design pressure	PSIG	550/340 PSIG		550/340 PSIG		550/340 PSIG	
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")		Φ9.52/Φ15.9(3/8"/5/8")	
	Max. refrigerant pipe length	m	25	30		50	
	Max. refrigerant pipe length	ft	82	98		164	
	Max. difference in level	m	10	20		25	
	Max. difference in level	ft	33	66		82	
Connection wiring		16AWG*4 Stranded, unshielded		16AWG*4 Stranded, unshielded		16AWG*4 Stranded, unshielded	
Thermostat type		Remote Control		Remote Control		Remote Control	
Operation temperature	Indoor(cooling/ heating)	℃	17~32/0~30	17~32/0~30		17~32/0~30	
	Indoor(cooling/ heating)	℉	62~90/32~86	62~90/32~86		62~90/32~86	
	Outdoor(cooling/heating)-opt	℃	-15~50/-15~30	-15~50/-15~30		-15~50/-15~30	
	Outdoor(cooling/heating)-opt	℉	5~122/5~86	5~122/5~86		5~122/5~86	



Matching Combinations and Capacities

Multi DC Outdoor Unit		Available Indoor	Standard Combination				
				Two units	Three units	Four units	Five units
1drive 2	SAK-18-OD	Wall mounted: 9K/12K; Cassette: 9K/12K;	Wall mounted: 9+9	9+9			
				9+12			
				12+12			
1 drive 3	SAK-28-OD	Wall mounted: 9K/12K/18K; Cassette/Ceiling: 9K/12K/18K;	Wall mounted: 9+9+9	9+9	9+9+9		
				9+12	9+9+12		
				9+18	9+9+18		
				12+12	9+12+12		
				12+18	12+12+12		
				18+18			
1 drive 4	SAK-36-OD	Wall mounted: 9K/12K/18K; Cassette/Ceiling: 9K/12K/18K;	Wall mounted: 9+9+9+9	9+9	9+9+9	9+9+9+9	
				9+12	9+9+12	9+9+9+12	
				9+18	9+9+18	9+9+9+18	
				9+24	9+12+12	9+9+12+12	
				12+12	9+12+18	9+9+12+18	
				12+18	9+18+18	9+12+12+12	
				12+24	12+12+12	12+12+12+12	
				18+18	12+12+18		
					12+18+18		
					12+12+24		
1 drive 5	SAK-48-OD	Wall mounted: 9K/12K/18K/24K; Cassette/Ceiling: 9K/12K/18K/24K;	Wall mounted: 9+9+9+9+9	9+9	9+9+9	9+9+9+9	9+9+9+9+9
				9+12	9+9+12	9+9+9+12	9+9+9+9+12
				9+18	9+9+18	9+9+9+18	9+9+9+9+18
				9+24	9+9+24	9+9+9+24	9+9+9+9+24
				12+12	9+12+12	9+9+12+12	9+9+9+12+12
				12+18	9+12+18	9+9+12+18	9+9+9+12+18
				12+24	9+12+24	9+9+12+24	9+9+9+18+18
				18+18	9+18+18	9+9+18+18	9+9+12+12+12
				18+24	9+18+24	9+9+18+24	9+9+12+12+18
				24+24	9+24+24	9+12+12+12	9+12+12+12+12
					12+12+12	9+12+12+18	9+12+12+12+18
					12+12+18	9+12+12+24	12+12+12+12+12
					12+12+24	9+12+18+18	
					12+18+18	9+18+18+18	
					12+18+24	12+12+12+12	
					12+24+24	12+12+12+18	
					18+18+18	12+12+12+24	
					18+18+24	12+12+18+18	

None: If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be correspondingly attenuated. This situation is very evidently during heating mode.

Rules: Outdoor unit Capacity*0.66<= Indoor unit total capacity <= Outdoor unit Capacity 1.33



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