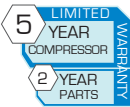




Made by Midea®



Multi-Zone Mini Split

Multi-Room Ductless Inverter Heat Pump Solution

Up to 22 SEER*



*For some models





Multi-Zone Inverter Outdoor Heat Pump

Model			SAK-18-OD *	SAK-27-OD *	SAK-36-OD	SAK-48-OD	
Power supply			Ph-V-Hz	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	409~2003	670~3210	920~4325	855~4795
	EER		Btu	12.5	12.0	10.9	11.6
	SEER			21.3	22.0	22.5	21.5
Heating at 47F	Capacity		Btu/h	18000	28000	36000	48000
	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
heating at 17F	Rated capacity		Btu/h	11800	16800	25400	30800
heating at 5F-15°C)	maximum capacity		Btu/h	14200	20900	28800	35800
MINIMUM CIRCUIT AMPACITY			A	18.0	25.0	30.0	35.0
MAX.FUSE			A	25.0	35.0	45.0	50.0
Compressor	Model			ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU
	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	PQE(VG74)/1000	Ester Oil VG74/1400
Outdoor fan Motor	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
	Speed		r/min	150 - 850	150 - 10000	150 - 10000	150 - 870
Outdoor air flow			m3/h	2362	3619	3619	7646
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	43.11x19.49x58.27
	Net/Gross weight		Kg	48/52	68/73	71/76	101.5/115.7
	Net/Gross weight		lbs.	105.82/114.64	149.91/160.94	156.53/167.55	223.77/255.07
Refrigerant type			oz	R410A/70.5	R410A/98.8	R410A/105.8	R410A/162.3
Refrigerant precharge(Total pipe length)			ft	50	75	100	125
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	m	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
Max. height difference between indoor units		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	44/96/144	44/96/144	22/46/46

* Energy Star certified



Wall Mount

Features and Benefits:

- Three Fan Speeds
- Wi-Fi Capable
- Vertical Swing Louver
- Power Failure Recovery
- IR Remote Controller
- Comfortable Sleep Mode
- Dry Coil Mode for Anti-Mildew Protection
- Tether Wired Controller (Optional)
- Cleanable Air Filter
- Healthy Filter (Optional)

Wall Mount Indoor Unit		SAK-09-21MZ	SAK-12-21MZ	SAK-18-20MZ	SAK-24-20MZ
Cooling Capacity	BTU/h	9,000	12,000	18,000	24,000
Power supply	V,Hz,Ph	208-230,60,1	208-230,60,1	208-230,60,1	208-230,60,1
Indoor air flow (Hi/Mi/Lo)	CFM	264/205/141	306/212/147	559/365/306	618/471/324
Indoor noise level (Hi/Mi/Lo)	dB(A)	39/-/24.5	39/-/25	45.5/-/34.5	50/-/35.5
Dimension(W*D*H)	inch	31.57x7.44x11.69	31.57x7.44x11.69	42.52x8.90x13.19	42.52x8.90x13.19
Packing (W*D*H)	inch	34.45x11.22x14.76	34.45x11.22x14.76	45.47x16.34x12.40	45.47x16.34x12.40
Net/Gross weight	lb	18.1/22.0	18.1/22.0	29.1/37.0	29.1/37.0
Controller		Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling/ heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86
Application area (cooling standard)	m2	12-17.6	16-23.4	23.3-34.2	30.6-44.9
Qty/per 20' /40' /40'HQ		320/660/750	320/660/750	190/400/448	190/400/448
Refrigerant piping	Liquid side/ Gas side	inch	1/4"/3/8"	1/4"/1/2"	3/8"/5/8"



Ceiling Cassette

Star Air Kontrol's Multi-zone Ceiling Cassette will inconspicuously provide quiet performance through innovative design

Ceiling Cassette Indoor Unit			SAK-12-21CC	SAK-18-20CC	SAK-24-20CC
Cooling Capacity		BTU/h	12,000	18,000	24,000
Power supply		V,Hz,Ph	208-230,60,1	208-230,60,1	208-230,60,1
Minmum circuit ampacity		A	1,3	1,9	10,3
Maxfuse		A	15	15	17,5
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	338/288/248	562/485/439	820/740/590
Indoor noise level (Hi/Med/Lo) (Standard pressure)		dB(A)	41/38/35	46/43/41	51/47/43
Indoor unit	Dimension (WxDxH)(body)	inch	22.44x22.44x10.24	22.44x22.44x10.24	33.07x33.07x8.07
	Packing (WxDxH)(body)	inch	25.79x25.79x11.42	25.79x25.79x11.42	35.43x35.43x8.86
	Dimension (WxDxH)(panel)	inch	25.47x25.47x1.97	25.47x25.47x1.97	37.4x37.4x2.17
	Packing (WxDxH)(panel)	inch	28.15x28.15x4.84	28.15x28.15x4.84	40.75x40.75x3.54
	Net/Gross weight(body)	lb	35.27/41.88	39.68/46.3	45.19/52.91
	Net/Gross weight(panel)	lb	5.51/9.92	5.51/9.92	11.02/17.64
Refrigerant piping	Liquid side/ Gas side	inch	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"
Controller			Remote/Wired control	Remote/Wired control	Remote/Wired control
Cooling		°F	62~90	62~90	62~90
Heating		°F	32~86	32~86	32~86
Operation temperature		°F	62~86	62~86	62~86
Qty/per 20' /40' /40'HQ			234/488/566	234/488/566	148/312/342

Matching Combinations and Capacities

Multi DC Outdoor Unit		Avaliable 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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