



History of Star Air Kontrol:

A Legacy of Comfort and Quality

The Founding Vision: Family Values at the Core

Star Air Kontrol began as a small, family-operated business with a vision to redefine the residential air conditioning market. Rooted in family values, the company prioritized care, attention to detail, and an unwavering commitment to customer satisfaction. This foundation set the stage for Star Air Kontrol to emerge as a trusted name in the industry, delivering comfort and reliability to countless homes, apartments, hotels, and commercial spaces.

Early Innovations: Meeting Market Needs

In the early years, Star Air Kontrol identified a gap in the market for air conditioning units that balanced affordability with premium quality. Many customers faced the dilemma of choosing between high-cost options or low-performance products. The company addressed this challenge by engineering cooling solutions that combined efficiency, durability, and economic value. This strategy quickly resonated with customers, driving demand for their products and setting a new standard in the industry.

Commitment to Excellence A Customer-Centric Approach

From the outset, Star Air Kontrol adopted a customer-first philosophy. Each air conditioning unit was designed with the end-user in mind, ensuring easy installation, long-lasting performance, and energy efficiency. The company's products weren't just machines—they were integral to enhancing the quality of life for families, guests, and employees. Whether cooling an apartment, creating a relaxing atmosphere in a hotel room, or providing a productive environment in a commercial space, Star Air Kontrol's air conditioners became synonymous with comfort and reliability.

Navigating Growth: Expanding the Reach

As demand for their high-performance air conditioning units grew, Star Air Kontrol scaled its operations while maintaining its family-oriented ethos. The company expanded its product line to cater to diverse needs, from compact solutions for small apartments to robust systems for large commercial properties. Despite their growth, they preserved their commitment to affordability and quality, ensuring that every customer received value without compromise.

Industry Leadership: Cost, Quality, and Innovation

Star Air Kontrol's ability to harmonize cost and quality has been a cornerstone of their success. In an industry often dominated by trade-offs, they consistently delivered products that exceeded expectations in both performance and price. This dedication earned the trust of their clients and cemented their reputation as leaders in the air conditioning market. Customers repeatedly turned to Star Air Kontrol, not just for cooling solutions but for peace of mind.

Looking Ahead: A Vision for the Future

Today, Star Air Kontrol continues to build on its legacy of innovation and excellence. By staying ahead of industry trends and embracing emerging technologies, the company remains at the forefront of residential and commercial air conditioning solutions. Their vision extends beyond simply cooling spaces; they aim to create environments where people can live, work, and thrive in comfort.

As they move forward, Star Air Kontrol remains committed to the principles that have defined their journey: family values, customer-centric design, and an unwavering focus on quality and affordability. This dedication ensures that the company will continue to be a trusted name in the air conditioning industry for years to come.

Single Zone Mini Split

High Efficiency And Energy Saving



Full DC Design

DC inverter compressor and motor ensures increased energy savings and reliability of the system.



Smart Defrosting

Precision defrost sensor accurately determines defrost cycle duration allowing the system to provide heat when you need it most.



Wide Temperature Operation

Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



Refrigerant Leakage Alarm

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



Multiple Security Protection



Voltage Protection



Overheating Protection



Temperature Protection



Overcurrent Protection



Lack-phase Protection

Single Zone Units - Specs



Information	Attribute Name	Unit									
Basic Information	Indoor Model		SAK-09-WM1/115V	SAK-12-WM1/115V	SAK-09-WM1/220V	SAK-12-WM1/220V	SAK-18-WM1/220V	SAK-24-WM1/220V	SAK-30-WM1/220V	SAK-36-WM1/220V	
	Outdoor Model		SAK-09-WM2/115V	SAK-12-WM2/115V	SAK-09-WM2/220V	SAK-12-WM2/220V	SAK-18-WM2/220V	SAK-24-WM2/220V	SAK-30-WM2/220V	SAK-36-WM2/220V	
Power supply	Voltage	V-Hz-Ph	115V,60Hz,1Ph	115V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Voltage range	V	103.5-126.5	103.5-126.5	187-253	187-253	187-253	187-253	187-253	187-253	187-253
National Certification	Cooling Capacity	Btu/h	9000	12000	9000	12000	18000	24000	30000	36000	
	Cooling Input	W	720	1188	714	1111	1667	2400	2730	4000	
	Cooling Current	A	8.0	12.7	5.0	5.0	7.2	10.9	12.1	16.8	
	SEER2	Btu/h/W	21.5	21.2	21.2	21.3	19.2	18.7	20.0	18.0	
	EER2	Btu/h/W	12.5	10.1	12.6	10.8	10.8	10.0	11.0	9.0	
	Cooling Capacity Range	Btu/h	2200~9900	2200~12300	2300~9700	1700~13300	4100~19000	5500~24200	6200~33700	2900~36200	
	Cooling Input (range)	W	120 ~ 790	140 ~ 1200	365 ~ 800	140 ~ 1400	660 ~ 1720	480 ~ 2590	6200 ~ 3200	380 ~ 4140	
	Cooling Current(range)	A	1.3 ~8.6	1.8 ~13.0	1.5 ~5.6	1.3 ~6.2	1.7 ~7.6	2.1 ~11.3	2.6 ~14.1	2.9 ~18.0	
	Heating Capacity	Btu/h	10000	12000	10000	12000	18800	24000	30000	36000	
	Heating Input	W	890	1065	916	1106	1801	2125	2900	3741	
	Heating Current	A	9.8	11.7	4.0	4.9	8.1	9.6	12.9	16.3	
	HSPF2-4	Btu/h/W	9.0	8.7	9.1	9.1	9.6	9.3	9.2	8.5	
	HSPF2-5	Btu/h/W	7.0	6.7	7.0	7.0	7.5	7.3	6.9	6.8	
	COP	W/W	3.29	3.30	3.20	3.18	3.06	3.31	3.03	2.82	
	Heating Capacity Range	Btu/h	4200~10200	3400~12200	4300~11100	3500~13400	6200~20200	6300~27000	11800~30900	3600~36600	
	Heating Input(range)	W	260 ~950	200 ~1230	255 ~1050	325 ~1350	380 ~1850	410 ~2690	675 ~2930	445 ~3950	
	Heating Current(range)	A	1.4 ~10.2	1.1 ~13.2	1.4 ~4.7	1.92 ~6.0	2.1 ~8.2	2.2 ~11.8	3.7 ~13	3.0 ~17.2	
	Heating(H32) Rated capacity	Btu/h	6500	7300	6800	8700	12300	16900	19000	24600	
	Heating(H32) COP	W/W	2.30	2.24	2.45	8.20	2.63	2.53	2.26	2.25	
	Heating(H42) Rated capacity	Btu/h	6500	6600	7000	8000	11500	17000	19700	21400	
	Heating(H42) COP	W/W	1.96	1.85	2.07	1.90	2.14	2.14	1.88	1.80	
Basic Parameter (NC)	Moisture removal	L/h	1.0	1.4	0.9	1.5	2.5	3.0	3.6	4.9	
	Indoor MINIMUM CIRCUIT AMPACITY	A	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	Indoor MAX.FUSE	A	15	15	15	15	15	15	15	15	
	Outdoor MINIMUM CIRCUIT AMPACITY	A	18.0	19.0	12.0	13.0	15.0	19.0	28.0	33.0	
	Outdoor MAX.FUSE	A	20	20	15	15	20	20	30	35	
	Connection wiring		14#x4	14#x4	14#x4	14#x4	14#x4	14#x4	14#x4	14#x4	
	Indoor Indoor fan motor RLA	A	0.5	0.6	0.3	0.2	0.5	0.6	0.7	0.7	
	Outdoor Outdoor fan motor RLA	A	0.5	0.6	0.3	0.4	0.4	0.8	1.3	1.3	
	Outdoor Compressor Rated current(RLA)	A	13.5	14.0	7.0	7.5	10.0	13.8	17.5	21.5	
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	m³/h	480 / 400 / 350 / 280 / 200	580 / 525 / 350 / 300 / 160	530 / 450 / 330 / 260 / 180	610 / 520 / 350 / 245 / //	730 / 660 / 440 / 370 / //	1240 / 900 / 680 / 560 / //	1450 / 1245 / 800 / 600 / //	1500 / 1245 / 880 / 680 / //	
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	CFM	282.5 / 235.4 / 206.0 / 164.8 / 117.7	341.4 / 309.0 / 206.0 / 176.6 / 94.2	312.0 / 264.9 / 194.2 / 153.0 / 105.9	359.0 / 306.1 / 206.0 / 144.2 / //	429.7 / 388.5 / 259.0 / 217.8 / //	729.9 / 529.7 / 400.2 / 329.6 / //	853.5 / 732.8 / 470.9 / 353.2 / //	882.9 / 732.8 / 518.0 / 400.2 / //	
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)	43.0/37.5/33.5/25.0/18.0	45.0/40.5/32.5/25.0/17.5	40.5/35.5/31.5/23.0/18.5	44.0/38.0/32.0/22.5/21	50.5/45/36/24/19	54.0/45.0/41.5/27.0/21.5	57.0/51/44.5/34/27	56.5/50.5/44.5/34/28	
	Outdoor noise level (Hi)	dB(A)	52.5	54.0	53.5	54.0	56.0	59.5	61.5	60.5	
	Outdoor Outdoor air flow	CFM	1294.1	1235.3	1294.1	1235.3	1764.7	2235.294118	2235.294118	2235.294118	
	Outdoor Outdoor air flow	m³/h	2200	2100	2200	2100	2100	3000	3800	3800	
	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	
	Outdoor Refrigerant type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	
	Outdoor Refrigerant charge	oz	21.52	24.34	21.52	24.69	40.57	53.62	84.66	112.88	
	Outdoor Additional charge per feet	oz/ft	0.16	0.16	0.16	0.16	0.16	0.32	0.32	0.32	
	Outdoor Throttle type		Capillary	Capillary	Capillary	Capillary	Capillary	Throttle valve	EXV+Capillary	EXV+Throttle valve	
Electrical Motor	Liquid side	mm(inch)	6.35mm(1/4in)	6.35mm(1/4in)	6.35mm(1/4in)	6.35mm(1/4in)	6.35mm(1/4in)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)	
	Gas side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)	12.7mm(1/2in)	15.9mm(5/8in)	15.9mm(5/8in)	15.9mm(5/8in)	
	Max. Piping Length	ft	82.00	82.00	82.00	98.40	164.00	164.00	213.20	213.20	
	Max. Height Difference	ft	49.20	49.20	49.20	49.20	65.60	82.00	82.00	98.40	
	Indoor Operating Temp. Range(Cooling)	°F	60~90	60~90	60~90	60~90	60~90	60~90	60~90	60~90	
	Outdoor Operating Temp. Range(Heating)	°F	5~75	5~75	5~75	5~75	5~75	5~75	5~75	5~75	
	Indoor Operating Temp. Range(Heating)	°F	32-86	32-86	32-86	32-86	32-86	32-86	32-86	32-86	
	Outdoor Operating Temp. Range(Cooling)	°F	5~122	5~122	5~122	5~122	5~122	5~122	5~122	5~122	
	Indoor Item Net/Gross weight	lb	17.42/22.93	19.40/25.13	16.98/22.27	19.40/25.13	24.47/32.63	30.64/39.46	54.01/40.34	40.34/54.01	
	Indoor Unit Dimension WxDxH	inch	28.43 x 7.36 x 11.42	31.57 x 7.44 x 11.69	28.43 x 7.36 x 11.42	31.57 x 7.44 x 11.69	37.99 x 8.46 x 12.56	42.52 x 8.90 x 13.19	49.57 x 11.10 x 14.25	49.57 x 11.10 x 14.25	
Outdoor Electrical Motor	Indoor Package Dimension WxDxH	inch	31.10 x 10.63 x 14.76	34.45 x 11.22 x 14.96	31.10 x 10.63 x 14.76	34.45 x 11.22 x 14.96	41.14 x 12.01 x 16.14	45.47 x 16.34 x 12.60	52.76 x 17.72 x 15.16	52.76 x 17.72 x 15.16	
	Outdoor Item Net/Gross weight	lb	56.66/62.17	61.29/67.02	54.23/59.74	59.08/64.37	72.31/78.48	94.58/102.29	142.86/154.54	150.35/160.27	
Outdoor Electrical Motor 2	Outdoor Unit Dimension WxDxH	inch	30.12 x 11.93 x 21.85	30.12 x 11.93 x 21.85	30.12 x 11.93 x 21.85	30.12 x 11.93 x 21.85	31.69 x 12.99 x 21.81	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	
	Outdoor Package Dimension WxDxH	inch	34.92 x 13.27 x 24.02	34.92 x 13.27 x 24.02	34.92 x 13.27 x 24.02	34.92 x 13.27 x 24.02	36.02 x 14.57 x 24.21	39.17 x 15.67 x 29.13	42.91 x 19.68 x 34.84	42.91 x 19.68 x 34.84	
Compressor	Indoor Indoor Fan Motor Model		ZKFP-20-8-113	ZKFP-20-8-113	ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-30-8-3-10	ZKFP-58-8-1-10	ZKFP-58-8-1-10	ZKFP-58-8-1-10	
	Indoor output	W	20	20	20	20	30	58	58	58	
Compressor	Indoor Motor Speed(Hi/Mi/Lo)	r/min	1200/1050/850	1200/1050/850	1250/1100/850	1080/850/650	1200/1000/900	1100/940/780	1200/1050/950	1200/950/750	
	Outdoor Fan Motor Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1L-1	ZKFN-34-10-1-3	ZKFN-80-10-1L	ZKFN-120-8-2	ZKFN-120-8-2	
	Outdoor Fan Motor Output	W	34	34	34	34	34	80	120	120	
Compressor	Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	800/600	780/600	800/600	800/600	840/650	830/550	900/500	880/500	
	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	
	Outdoor Compressor Model		KSK103D33UEZ3	KSN98D64UFZ3	KSK103D33UEZ3	KSN98D64UFZ3	KSN140D21UFZ	KTM240D46UKT2	KTF250D22UMT	KTF250D22UMT	
	Outdoor Compressor Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	
	Outdoor Compressor Capacity	W	2035/3255	1930/3100 ±3%	2035/3255	1930/3100 ±3%	4385	4780/7600	8095	8095	
	Outdoor Compressor Input Power	W	325/826	292/765 ±3%	325/826	292/765 ±3%	1140	805/2045	2200	2200	
	Outdoor Compressor Rated current	A	2.40/5.65	2.15/4.65 ±3%	2.40/5.65	2.15/4.65 ±3%	7.5	4.15/9.30	10.0	10.0	
Compressor	Outdoor Refrigerant oil		VG74	VG74	VG74	VG74	VG74	VG74	VG74	VG74	
	Outdoor Refrigerant oil/oil charge	mL	310	300	310	300	440	620	670	670	

4-Way Cassette 9K-24K

High Efficiency And Energy Saving

Full DC Design

DC inverter compressor and motor ensures increased energy savings and reliability of the system.



Smart Defrosting

Precision defrost sensor accurately determines defrost cycle duration allowing the system to provide heat when you need it most.



Wide Temperature Operation

Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



Refrigerant Leakage Alarm

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



Multiple Security Protection



Voltage Protection



Overheating Protection



Temperature Protection



Overcurrent Protection



Lack-phase Protection

4-Way Cassette 9K-24K



Information	Attribute Name	Unit				
Basic Information	Product Number					
	Indoor Product Number					
Power supply		V-Hz-Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Voltage range	V	187-253	187-253	187-253	187-253
National Certification	Cooling Capacity	Btu/h	9000	12000	16800	24000
	Cooling Input	W	629	968	1344	2000
	Cooling Current	A	4.5	4.3	6.1	8.8
	SEER2	Btu/h/W	21.6	21.1	20.7	22
	EER2	Btu/h/W	14.3	12.5	12.5	12.0
	Cooling Capacity Range	Btu/h	3700~12000	3700~14000	5300~17800	12300~26800
	Cooling Input (range)	W	220 ~ 1010	220 ~ 1160	490 ~ 1620	910 ~ 2570
	Cooling Current(range)	A	1.6 ~4.4	1.8 ~5.1	2.2 ~7.1	4.0 ~11.3
	HSPF2-5	Btu/h/W	8.8	7.9	8.5	8.1
	COP	W/W	4.00	3.55	3.36	3.20
	Heating Capacity Range	Btu/h	4700~13700	4700~15000	7100~21500	11600~33100
	Heating Input(range)	W	270 ~1110	270 ~1200	395 ~1930	640 ~2830
	Heating Current(range)	A	1.4 ~4.9	1.4 ~5.3	2.1 ~8.5	3.5 ~12.4
	Heating(H32) Rated capacity	Btu/h	8500	8500	13900	20400
	Heating(H32) COP	W/W	2.79	2.79	2.67	2.73
	Heating(H42) Rated capacity	Btu/h	8300	8400	12800	18500
	Heating(H42) COP	W/W	2.17	2.40	2.20	2.30
	Cooling at 109 F (43°C) Rated capacity	Btu/h	11700	11700	13400	21000
	Cooling at 5 F (-15°C)	Btu/h	12700	13400	17500	23800
	Heating at 17F (-8.33°C) Rated capacity	Btu/h	9300	9300	14800	20500
	Heating at 5F(-15°C) Rated capacity	Btu/h	8300	8400	12800	18500
	Heating at -4F (-20°C) Rated capacity	Btu/h	6100	6700	10600	12800
	Heating at -13F (-25°C) Rated capacity	Btu/h	4900	5300	8300	10400
	Heating at -22F (-30°C) Rated capacity	Btu/h	N/A	N/A	N/A	N/A
	Moisture removal	kg/h	0.74	1.10	2.05	2.56
	Indoor MINIMUM CIRCUIT AMPACITY	A	3.00	3.00	3.00	3.00
Basic Parameter (NC)	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B	R454B	R454B
	Outdoor Refrigerant charge	kg	0.92	0.92	1.36	2.00
	Outdoor Refrigerant charge	oz	32.45	32.45	47.97	70.55
	Outdoor Additional charge per metre	g/m	15	15	15	30
	Outdoor Additional charge	oz/ft	0.16	0.16	0.16	0.32
	Outdoor Throttle type		EXV	EXV	EXV+Throttle valve	EXV+Throttle valve
	Liquid side	mm(inch)	6.35mm(1/4in)	6.35mm(1/4in)	6.35mm(1/4in)	9.52mm(3/8in)
	Gas side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)	12.7mm(1/2in)	15.9mm(5/8in)
	Max. refrigerant pipe length	m	25	25	30	50
	Max. Piping Length	ft	82.00	82.00	98.40	164.00
	Max. difference in level	m	15	15	20	25
	Max. Height Difference	ft	49.20	49.20	65.60	82.00
	Room temperature_Indoor(cooling)	°C	16~32	16~32	16~32	16~32
	Outdoor Operating Temp. Range(Cooling)	°F	-13~122	-13~122	-13~122	-13~122
	Indoor Operating Temp. Range(Heating)	°F	32~86	32~86	32~86	32~86
	Outdoor Operating Temp. Range(Heating)	°F	-13~75	-13~75	-13~75	-13~75
Size/Weight	Indoor Item Net/Gross weight	kg	16/19	16.0/19.0	16.0/19.0	21.4/26.8
	Indoor Item Net/Gross weight	lb	35.27/41.89	35.27/41.89	35.27/41.89	47.18/59.08
	Indoor Body Dimension W×D×H	mm	570.0×570.0×245.0	570.0×570.0×245.0	570.0×570.0×245.0	830.0×830.0×205.0
	Indoor Unit Dimension WxDxH	inch	22.44 x 22.44 x 9.65	22.44 x 22.44 x 9.65	22.44 x 22.44 x 9.65	32.68 x 32.68 x 8.07
	Indoor Item Package Dimension(W×D×H)	mm	715×640×295	715×640×295	715×640×295	910×910×250
	Indoor Package Dimension WxDxH	inch	28.15 x 25.20 x 11.61	28.15 x 25.20 x 11.61	28.15 x 25.20 x 11.61	35.83 x 35.83 x 9.84
	Outdoor Item Net/Gross weight	kg	28.2/30.7	28.2/30.7	42.0/45.5	55.4/60.0
	Outdoor Item Net/Gross weight	lb	62.17/67.68	62.17/67.68	92.59/100.31	122.13/132.28
	Outdoor Body Dimension W×D×H	mm	765.0×303.0×555.0	765.0×303.0×555.0	890.0×342.0×673.0	946.0×410.0×810.0
	Outdoor Unit Dimension WxDxH	inch	30.12 x 11.93 x 21.85	30.12 x 11.93 x 21.85	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89
	Outdoor Item Package Dimension(W×D×H)	mm	887×337×610	887×337×610	995×398×740	1090×500×885
	Outdoor Package Dimension WxDxH	inch	34.92 x 13.27 x 24.02	34.92 x 13.27 x 24.02	39.17 x 15.67 x 29.13	42.91 x 19.68 x 34.84
Electrical Motor	Indoor Indoor Fan Motor Model		ZKFN-45-8-2	ZKFN-45-8-2	ZKFN-45-8-2	ZKFN-45-8-1
	Indoor Output	W	45	45	45	45
	Indoor Motor Speed(Hi/Mi/Lo)	r/min	600/530/380	700/600/400	800/750/700	624/568/426
Outdoor Electrical Motor	Outdoor Outdoor Fan Motor Model		ZKFN-34-10-1L	ZKFN-34-10-1L	ZKFN-80-10-1L	ZKFN-120-10-1L
	Outdoor Outdoor Fan Motor Output	W	34	34	80	120
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	800/700/600	800/700/600	780/700/550	810/700/450
Compressor	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
	Outdoor Compressor Model		KSK103D33UEZ3	KSK103D33UEZ3	KSN140D58UFZ	KTM240D46UKT2
	Outdoor Compressor Brand		GMCC	GMCC	GMCC	GMCC
	Outdoor Compressor Capacity	W	2035/3255	2035/3255	4315	4780/7600
	Outdoor Compressor Input Power	W	325/826	325/826	1090	805/2045
	Outdoor Compressor Rated current	A	2.40/5.65	2.40/5.65	7.2	4.15/9.30
	Outdoor Refrigerant oil		VG74	VG74	VG74	VG74
	Outdoor Refrigerant oil charge	mL	310	310	440	620

4-Way Cassette 36K-48K



Information	Attribute Name	Unit		
Basic Information	Indoor Model		SAK-36-CT1/220V	SAK-48-CT1/220V
	Outdoor Model		SAK-36-CT2/220V	SAK-48-CT2/220V
Power supply		V-Hz-Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Voltage range	V	187-253	187-253
National Certification	Cooling Capacity	Btu/h	36000	48000
	Cooling Input	W	3720	5053
	Cooling Current	A	16.4	22.5
	SEER2	Btu/h/W	20.0	19
	EER2	Btu/h/W	9.6	9.5
	Cooling Capacity Range	Btu/h	6400~39800	10600~50400
	Cooling Input (range)	W	560 ~ 4360	800 ~ 5320
	Cooling Current(range)	A	4.1 ~19.3	5.7 ~23.4
	Heating Capacity	Btu/h	38000	50000
	Heating Input	W	3365	4950
	Heating Current	A	15.0	22.1
	HSPF2-4	Btu/h/W	10.3	9.9
	HSPF2-5	Btu/h/W	7.9	7.7
	COP	W/W	3.31	2.96
	Heating Capacity Range	Btu/h	14400~42200	19900~61700
	Heating Input(range)	W	840 ~3580	1140 ~5940
	Heating Current(range)	A	4.6 ~15.7	6.2 ~26.0
	Heating(H32) Rated capacity	Btu/h	26800	36600
	Heating(H32) COP	W/W	2.68	2.24
	Heating(H42) Rated capacity	Btu/h	26600	40500
	Heating at 5F(-15°C) Rated capacity	Btu/h	26600	40500
	Heating at -4F (-20°C) Rated capacity	Btu/h	20800	32100
	Heating at -13F (-25°C) Rated capacity	Btu/h	16500	25300
	Heating at -22F (-30°C) Rated capacity	Btu/h	N/A	N/A
	Moisture removal	kg/h	4.23	6.27
	Indoor MINIMUM CIRCUIT AMPACITY	A	3.00	3.00
BasicParameter(NC)	Indoor Indoor fan motor RLA	A	1.0	1.0
	Outdoor Outdoor fan motor RLA	A	1.4	1.2
	Outdoor Compressor Rated current(RLA)	A	21.5	24.0
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	m³/h	1770 / 1610 / 1450 / 1280 / 1120	2100 / 1910 / 1730 / 1360 / 1170
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	CFM	1041.8 / 947.6 / 853.5 / 753.4 / 659.2	1236.1 / 1124.2 / 1018.3 / 800.5 / 688.7
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)	54/52.5/47.0/39.5/36.5	56.0/52.5/50.0/42.5/38.50
	Outdoor Outdoor air flow	m³/h	4100	7200
	Outdoor Outdoor Air Flow(CFM)	CFM	2413.3	4237.9
	Outdoor noise level (Hi)	dB(A)	63.0	62.5
	N.A. Design pressure	PSI	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B
	Outdoor Refrigerant charge	oz	91.71	126.99
	Outdoor Additional charge	oz/ft	0.32	0.32
	Outdoor Throttle type		EXV+Throttle valve	EXV+Throttle valve
	Liquid side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)
	Gas side	mm(inch)	19mm(3/4in)	19mm(3/4in)
	Max. Piping Length	ft	246.00	246.00
	Max. Height Difference	ft	98.40	98.40
	Indoor Operating Temp. Range(Cooling)	°F	60~90	60~90
	Outdoor Operating Temp. Range(Cooling)	°F	-13~122	-13~122
	Indoor Operating Temp. Range(Heating)	°F	32-86	32-86
	Outdoor Operating Temp. Range(Heating)	°F	-13~75	-13~75
	Indoor Item Net/Gross weight	lb	59.30/71.43	64.59/76.06
	Indoor Unit Dimension WxDxH	inch	32.68 x 32.68 x 9.65	32.68 x 32.68 x 11.30
	Indoor Package Dimension WxDxH	inch	35.83 x 35.83 x 11.42	35.83 x 35.83 x 12.99
	Outdoor Item Net/Gross weight	lb	152.34/162.48	208.78/239.86
	Outdoor Unit Dimension WxDxH	inch	37.24 x 16.14 x 31.89	37.48 x 16.34 x 52.48
	Outdoor Package Dimension WxDxH	inch	42.91 x 19.68 x 34.84	43.11 x 19.49 x 57.48
ElectricalMotor	Indoor Indoor Fan Motor Model		ZKFN-125-8-1	ZKFN-125-8-1
	Indoor Output	W	125	125
	Indoor Motor Speed(Hi/Mi/Lo)	r/min	696/632/568	720/660/580
OutdoorElectricalMotor	Outdoor Outdoor Fan Motor Model		ZKFN-120-10-1L	ZKFN-85-10-1L
	Outdoor Outdoor Fan Motor Output	W	120	85
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	950/800/500	850/750/650
OutdoorElectricalMotor2	Outdoor Outdoor Fan Motor Model		N/A	ZKFN-85-10-1L
	Outdoor Outdoor Fan Motor Output power2	W	N/A	85
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min	N/A	850/750/650
Compressor	Outdoor Compressor Type		ROTARY	ROTARY
	Outdoor Compressor Model		KTF310D43UMT	KTQ420D1UMU
	Outdoor Compressor Brand		GMCC	GMCC
	Outdoor Compressor Capacity	W	10010	13700
	Outdoor Compressor Input Power	W	2765	3700
	Outdoor Compressor Rated current	A	5.4	7.0
	Outdoor Refrigerant oil		VG74	VG74
	Outdoor Refrigerant oil charge	mL	1000	1400

One Way Cassette 9K-18K

High Efficiency And Energy Saving



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Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



Refrigerant Leakage Alarm

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



Multiple Security Protection



Voltage
Protection



Overheating
Protection



Temperature
Protection



Overcurrent
Protection



Lack-phase
Protection

One Way Cassette 9K-18K



Information	Attribute Name	Unit			
Basic Information	Indoor Market Model		SAK-09-OCT1/220V	SAK-12-OCT1/220V	SAK-18-OCT1/220V
	Outdoor Market Model		SAK-09-OCT2/220V	SAK-12-OCT2/220V	SAK-18-OCT2/220V
Basic Parameter		V-Hz-Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Voltage range	V	187-253	187-253	187-253
National Certification	Cooling Capacity	Btu/h	9000	12000	18000
	Cooling Input	W	625	976	1440
	Cooling Current	A	4.2	4.4	6.4
	SEER2	Btu/h/W	22.1	22.1	22.2
	EER2	Btu/h/W	14.4	12.3	12.5
	Cooling Capacity Range	Btu/h	3700~11400	3900~13800	4000~18800
	Cooling Input (range)	W	220 ~ 990	220 ~ 1180	450 ~ 1660
	Cooling Current(range)	A	1.7 ~4.4	1.7 ~5.2	2.1 ~7.3
	Heating Capacity	Btu/h	11000	12000	18000
	Heating Input	W	1007	1034	1600
	Heating Current	A	4.4	4.7	7.1
	HSPF2-4	Btu/h/W	11.8	10	12.2
	HSPF2-5	Btu/h/W	9.0	7.8	8.6
	COP	W/W	3.20	3.40	3.30
	Heating Capacity Range	Btu/h	4100~14300	4700~15300	7600~22800
	Heating(H42) COP	W/W	2.18	2.48	2.24
	Cooling at 109 F (43°C) Rated capacity	Btu/h	10100	12400	14500
	Cooling at 5 F (-15°C)	Btu/h	12200	14400	18000
	Heating at 17F (-8.33°C) Rated capacity	Btu/h	9900	10000	15200
	Heating at 5F(-15°C) Rated capacity	Btu/h	8000	8600	13100
	Heating at -4F (-20°C) Rated capacity	Btu/h	6100	6800	10300
	Heating at -13F (-25°C) Rated capacity	Btu/h	5000	5000	8100
	Heating at -22F (-30□) Rated capacity	Btu/h	/	/	/
	Moisture removal	kg/h	1.00	1.54	2.08
	Indoor MINIMUM CIRCUIT AMPACITY	A	3.00	3.00	3.00
	Indoor MAX.FUSE	A	15	15	15
	Outdoor MINIMUM CIRCUIT AMPACITY	A	12.00	12.00	18.00
	Outdoor MAX.FUSE	A	15	15	20
	Connection wiring		14#x4	14#x4	14#x4
	Indoor Indoor fan motor RLA	A	0.8	1.0	1.2
	Outdoor Outdoor fan motor RLA	A	0.6	0.6	0.9
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)	46.5/38.5/34.0/24.0/22.0	N/A/43.0/37.5/26.0/22.0	N/A/44.0/41.0/29.5/24.0
	Outdoor Outdoor air flow	m³/h	2100	2100	3000
	Outdoor Outdoor Air Flow(CFM)	CFM	1236.1	1236.1	1765.8
	Outdoor noise level (Hi)	dB(A)	54.5	54.5	57.5
Basic Parameter (NC)	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B	R454B
	Outdoor Refrigerant charge	oz	32.45	32.45	47.97
	Outdoor Additional charge	oz/ft	0.16	0.16	0.16
	Outdoor Throttle type		EXV	EXV	EXV+Throttle valve
	Liquid side	mm(inch)	6.35mm(1/4in)	6.35mm(1/4in)	6.35mm(1/4in)
	Gas side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)	12.7mm(1/2in)
	Max. Piping Length	ft	82.00	82.00	98.40
	Max. Height Difference	ft	49.20	49.20	65.60
	Indoor Operating Temp. Range(Cooling)	°F	60~90	60~90	60~90
	Outdoor Operating Temp. Range(Cooling)	°F	-13~122	-13~122	-13~122
	Indoor Operating Temp. Range(Heating)	°F	32-86	32-86	32-86
Size/Weight	Outdoor Operating Temp. Range(Heating)	°F	-13~75	-13~75	-13~75
	Indoor Item Net/Gross weight	lb	45.19/82.45	45.19/82.45	45.19/82.89
	Indoor Unit Dimension WxDxH	inch	50.31 x 13.19 x 8.98	50.31 x 13.19 x 8.98	50.31 x 13.19 x 8.98
	Indoor Package Dimension WxDxH	inch	57.60 x 22.48 x 22.64	57.60 x 22.48 x 22.64	57.60 x 22.48 x 22.64
	Outdoor Item Net/Gross weight	lb	62.17/67.68	62.17/67.68	92.59/100.31
	Outdoor Unit Dimension WxDxH	inch	30.12 x 11.93 x 21.85	30.12 x 11.93 x 21.85	35.04 x 13.46 x 26.50
Electrical Motor	Outdoor Package Dimension WxDxH	inch	34.92 x 13.27 x 24.02	34.92 x 13.27 x 24.02	39.17 x 15.67 x 29.13
	Indoor Indoor Fan Motor Model		ZKFN-30-8-43	ZKFN-30-8-43	ZKFN-30-8-43
	Indoor Output	W	30	30	30
Outdoor Electrical Motor	Indoor Motor Speed(Hi/Mi/Lo)	r/min	1104/994/784	1075/982/797	1344/1184/1024
	Outdoor Outdoor Fan Motor Model		ZKFN-34-10-1L	ZKFN-34-10-1L	ZKFN-80-10-1L
	Outdoor Outdoor Fan Motor Output	W	34	34	80
Outdoor Electrical Motor2	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	800/700/600	800/700/600	780/700/550
	Outdoor Outdoor Fan Motor Model		N/A	N/A	N/A
	Outdoor Outdoor Fan Motor Output power2	W	N/A	N/A	N/A
Compressor	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min	N/A	N/A	N/A
	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY
	Outdoor Compressor Model		KSK103D33UEZ3	KSK103D33UEZ3	KSN140D58UFZ
	Outdoor Compressor Brand		GMCC	GMCC	GMCC
	Outdoor Compressor Capacity	W	2035/3255	2035/3255	4315
	Outdoor Compressor Input Power	W	325/826	325/826	1090
	Outdoor Compressor Rated current	A	2.40/5.65	2.40/5.65	7.2
	Outdoor Refrigerant oil		VG74	VG74	VG74
	Outdoor Refrigerant oil charge	mL	310	310	440

Slim Duct 9K-60K

LIGHT COMMERCIAL

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Multiple Security Protection



Voltage
Protection



Overheating
Protection



Temperature
Protection



Overcurrent
Protection



Lack-phase
Protection

Slim Duct 9K-60K



Information	Attribute Name	Unit					
Basic Information	Indoor Market Model	SAK-09-DT1/220V		SAK-09-DT1/220V		SAK-12-DT1/220V	
	Outdoor Market Model	SAK-09-DT2/220V		SAK-12-DT2/220V		SAK-18-DT2/220V	
Power supply		V-Hz-Ph		208/230V,60Hz,1Ph		208/230V,60Hz,1Ph	
	Voltage range	V		187-253		187-253	
National Certification	Cooling Capacity	Btu/h		9000		11500	
	Cooling Input	W		703		983	
	Cooling Current	A		4.7		4.5	
	SEER2	Btu/h/W		19.5		19.0	
	EER2	Btu/h/W		12.8		11.7	
	Cooling Capacity Range	Btu/h		3100~11900		3100~13000	
	Cooling Input (range)	W		150 ~ 1040		150 ~ 1210	
	Cooling Current(range)	A		1.3 ~4.7		1.3 ~5.4	
	Heating Capacity	Btu/h		10000		12000	
	Heating Input	W		800		1028	
	Heating Current	A		3.6		4.7	
	HSPF2-4	Btu/h/W		11.0		10.2	
	HSPF2-5	Btu/h/W		8.8		8.0	
	COP	W/W		3.66		3.42	
	Heating Capacity Range	Btu/h		3600~14000		3700~15600	
	Heating Input(range)	W		250 ~1190		255 ~1310	
	Heating Current(range)	A		1.9 ~5.4		1.4 ~5.8	
	Heating(H32) Rated capacity	Btu/h		8900		9500	
	Heating(H32) COP	W/W		2.62		2.57	
	Heating(H42) Rated capacity	Btu/h		8600		8800	
	Moisture removal	kg/h		0.68		0.99	
	Indoor MINIMUM CIRCUIT AMPACITY	A		3.00		3.00	
	Indoor MAX.FUSE	A		15		15	
	Outdoor MINIMUM CIRCUIT AMPACITY	A		12.00		12.00	
	Outdoor MAX.FUSE	A		15		15	
	Connection wiring	14#x4		14#x4		14#x4	
	Indoor Indoor fan motor RLA	A		1.2		1.2	
	Outdoor Outdoor fan motor RLA	A		0.6		0.6	
	Outdoor Compressor Rated current(RLA)	A		7.3		7.3	
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	m³/h		550 / 450 / 350 / 250 / 200		680 / 550 / 450 / 300 / 200	
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	CFM		323.7 / 264.9 / 206.0 / 147.2 / 117.7		400.2 / 323.7 / 264.9 / 176.6 / 117.7	
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)		N/A/34/32.5/29/24		N/A/37/35/33.5/26	
	Indoor static pressure range	in.w.g.		0-0.4		0-0.4	
	Outdoor Outdoor air flow	m³/h		2100		2100	
	Outdoor Outdoor Air Flow(CFM)	CFM		1236.1		1236.1	
	Outdoor noise level (Hi)	dB(A)		54.0		55.5	
Basic Parameter (NC)	N.A. Design pressure	PSI		550 / 340		550 / 340	
	Outdoor Refrigerant type	R454B		R454B		R454B	
	Outdoor Refrigerant charge	oz		32.45		32.45	
	Outdoor Additional charge	oz/ft		0.16		0.16	
	Outdoor Throttle type	EXV		EXV		EXV	
	Liquid side	mm(inch)		6.35mm(1/4in)		6.35mm(1/4in)	
	Gas side	mm(inch)		9.52mm(3/8in)		9.52mm(3/8in)	
	Max. Piping Length	ft		82.00		82.00	
	Max. Height Difference	ft		49.20		49.20	
	Indoor Operating Temp. Range(Cooling)	°F		60~90		60~90	
	Outdoor Operating Temp. Range(Cooling)	°F		-13~122		-13~122	
	Indoor Operating Temp. Range(Heating)	°F		32-86		32-86	
	Outdoor Operating Temp. Range(Heating)	°F		-13~75		-13~75	
	Indoor Item Net/Gross weight	lb		39.46/46.74		39.46/46.74	
	Indoor Unit Dimension WxDxH	inch		27.56 x 19.92 x 7.87		27.56 x 19.92 x 7.87	
	Indoor Package Dimension WxDxH	inch		33.86 x 21.26 x 11.22		33.86 x 21.26 x 11.22	
	Outdoor Item Net/Gross weight	lb		62.17/67.68		62.17/67.68	
	Outdoor Unit Dimension WxDxH	inch		30.12 x 11.93 x 21.85		30.12 x 11.93 x 21.85	
Electrical Motor	Indoor Indoor Fan Motor Model	ZKFN-81-8-1		ZKFN-81-8-1		ZKFN-81-8-1	
	Indoor Output	W		81		81	
	Indoor Motor Speed(Hi/Mi/Lo)	r/min		980/910/840		1070/990/910	
Outdoor Electrical Motor	Outdoor Outdoor Fan Motor Model	ZKFN-34-10-1L		ZKFN-34-10-1L		ZKFN-34-10-1L	
	Outdoor Outdoor Fan Motor Output	W		34		34	
Outdoor Electrical Motor2	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min		800/700/600		800/700/600	
	Outdoor Outdoor Fan Motor Model	N/A		N/A		N/A	
	Outdoor Outdoor Fan Motor Output power2	W		N/A		N/A	
Compressor	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min		N/A		N/A	
	Outdoor Compressor Type	ROTARY		ROTARY		ROTARY	
	Outdoor Compressor Model	KSK103D33UEZ3		KSK103D33UEZ3		KSK103D33UEZ3	
	Outdoor Compressor Brand	GMCC		GMCC		GMCC	
	Outdoor Compressor Capacity	W		2035/3255		2035/3255	
	Outdoor Compressor Input Power	W		325/826		325/826	
	Outdoor Compressor Rated current	A		2.40/5.65		2.40/5.65	
	Outdoor Refrigerant oil	mL		VG74		VG74	
	Outdoor Refrigerant oil charge	mL		310		310	

Slim Duct 36K-60K



Information	Attribute Name	Unit			
Basic Information	Indoor Model		SAK-36-DT1/220V	SAK-48-DT1/220V	SAK-60-DT1/220V
	Outdoor Model		SAK-36-DT2/220V	SAK-48-DT2/220V	SAK-60-DT2/220V
Power supply		V-Hz-Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Voltage range	V	187-253	187-253	187-253
National Certification	Cooling Capacity	Btu/h	36000	48000	58000
	Cooling Input	W	3530	4800	5800
	Cooling Current	A	15.3	21.3	25.6
	SEER2	Btu/h/W	18.7	17.1	17.0
	EER2	Btu/h/W	10.1	10.0	10.0
	Cooling Capacity Range	Btu/h	7900~42500	11000~56500	14600~63000
	Cooling Input (range)	W	660 ~ 4250	930 ~ 5850	1200 ~ 6780
	Cooling Current(range)	A	3.1 ~18.7	6.1 ~25.6	5.4 ~29.7
	Heating Capacity	Btu/h	40000	50000	60000
	Heating Input	W	3170	4200	4750
	Heating Current	A	14.2	19.0	21.0
	HSPF2-4	Btu/h/W	10.2	9.8	9.7
	HSPF2-5	Btu/h/W	7.8	7.7	7.6
	COP	W/W	3.70	3.49	3.70
	Heating Capacity Range	Btu/h	8100~43500	11200~60500	11800~67000
	Heating Input(range)	W	520 ~3360	780 ~5100	775 ~5170
	Heating Current(range)	A	2.8 ~14.7	4.2 ~22.4	4.2 ~22.7
	Indoor MINIMUM CIRCUIT AMPACITY	A	4.00	5.00	5.00
	Indoor MAX.FUSE	A	15	15	15
	Outdoor MINIMUM CIRCUIT AMPACITY	A	33.00	39.00	42.00
	Outdoor MAX.FUSE	A	35	40	45
	Connection wiring		14#x3	14#x3	14#x3
	Indoor Indoor fan motor RLA	A	3.2	4.0	4.0
	Outdoor Outdoor fan motor RLA	A	1.4	1.2	2.2
	Outdoor Compressor Rated current(RLA)	A	21.5	24.0	25.0
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	m³/h	2100 / 1800 / 1600 / 1300 / N/A	2800 / 2500 / 2200 / 1800 / N/A	3400 / 2900 / 2400 / 1900 /N/A
	Indoor Indoor air flow (Turbo/Hi/Mi/Lo/Si)	CFM	1236.1 / 1059.5 / 941.8 / 765.2 / N/A	1648.1 / 1471.5 / 1294.9 / 1059.5 / N/A	2001.2 / 1706.9 / 1412.6 / 1118.3 / N/A
	Indoor noise level (Turbo/Hi/Mi/Lo/Si)	dB(A)	N/A/45/39.5/33/30	N/A/51/46/42/40	N/A/52/48/43/42
	Indoor static pressure range	in.w.g.	0-0.8	0-0.8	0-0.8
	Outdoor Outdoor air flow	m³/h	4100	7200	7200
	Outdoor Outdoor Air Flow(CFM)	CFM	2413.3	4237.9	4237.9
	Outdoor noise level (Hi)	dB(A)	63.0	64.0	64.0
Basic Parameter (NC)	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B	R454B
	Outdoor Refrigerant charge	oz	91.71	126.99	144.62
	Outdoor Additional charge	oz/ft	0.32	0.32	0.32
	Outdoor Throttle type		EXV+Throttle valve	EXV+Throttle valve	EXV+Throttle valve
	Liquid side	mm(inch)	9.52mm(3/8in)	9.52mm(3/8in)	9.52mm(3/8in)
	Gas side	mm(inch)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)
	Max. Piping Length	ft	246.00	246.00	246.00
	Max. Height Difference	ft	98.40	98.40	98.40
	Indoor Operating Temp. Range(Cooling)	°F	60~90	60~90	60~90
	Outdoor Operating Temp. Range(Cooling)	°F	-13~122	-13~122	-13~122
	Indoor Operating Temp. Range(Heating)	°F	32-86	32-86	32-86
	Outdoor Operating Temp. Range(Heating)	°F	-13~75	-13~75	-13~75
	Indoor Item Net/Gross weight	lb	106.26/120.37	111.33/124.78	161.38/178.13
	Indoor Unit Dimension WxDxH	inch	47.24 x 29.53 x 11.81	47.24 x 29.53 x 11.81	55.12 x 31.50 x 14.96
	Indoor Package Dimension WxDxH	inch	56.10 x 33.86 x 14.13	56.10 x 33.86 x 14.13	62.99 x 36.02 x 17.52
	Outdoor Item Net/Gross weight	lb	152.34/162.48	208.78/239.86	209.44/240.08
	Outdoor Unit Dimension WxDxH	inch	37.24 x 16.14 x 31.89	37.48 x 16.34 x 52.48	37.48 x 16.34 x 52.48
	Outdoor Package Dimension WxDxH	inch	42.91 x 19.68 x 34.84	43.11 x 19.49 x 57.48	43.11 x 19.49 x 58.27
	Indoor Indoor Fan Motor Model		ZKFN-400-8-1	ZKFN-560-8-4	ZKFN-560-8-4
	Indoor Output	W	400	560	560
ElectricalMotor	Indoor Motor Speed(Hi/Mi/Lo)	r/min	790/730/670	1000/950/880	850/780/700
	Outdoor Outdoor Fan Motor Model		ZKFN-120-10-1L	ZKFN-85-10-1L	ZKFN-85-8-22-5
	Outdoor Outdoor Fan Motor Output	W	120	85	85
OutdoorElectricalMotor	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min	950/800/500	850/750/650	850/750/650
	Outdoor Outdoor Fan Motor Model		N/A	ZKFN-85-10-1L	ZKFN-85-8-22-5
	Outdoor Outdoor Fan Motor Output power2	W	N/A	85	85
OutdoorElectricalMotor2	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min	N/A	850/750/650	850/750/650
	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY
Compressor	Outdoor Compressor Capacity	W	10010	13700	13700
	Outdoor Compressor Input Power	W	2765	3700	3700
	Outdoor Compressor Rated current	A	5.4	7.0	7.0
	Outdoor Refrigerant oil		VG74	VG74	VG74
	Outdoor Refrigerant oil charge	mL	1000	1400	1400

Platinum series 24V 18K-60K

High Efficiency And Energy Saving

Full DC Design

DC inverter compressor and motor ensures increased energy savings and reliability of the system.



Smart Defrosting

Precision defrost sensor accurately determines defrost cycle duration allowing the system to provide heat when you need it most.



Wide Temperature Operation

Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



Refrigerant Leakage Alarm

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



Multiple Security Protection



Voltage
Protection



Overheating
Protection



Temperature
Protection



Overcurrent
Protection



Lack-phase
Protection

Platinum series 24V 18K-60K



Information	Attribute Name	Unit	22023110001987	22023110001929	22023110001967	22023110001930	22023110001768	22023110001847
Basic Information	Indoor Market Model		SAK-18FDN1-M18M	SAK-24FDN1-M18M	SAK-30FDN1-M18M	SAK-36FDN1-M18M	SAK-48FDN1-M18M	SAK-60FDN1-M18M
	Outdoor Market Model		SAK-18FDN2-M18M	SAK-24FDN2-M18M	SAK-30FDN2-M18M	SAK-36FDN2-M18M	SAK-48FDN2-M18M	SAK-60FDN2-M18M
	IDU Power Supply(Volts; Hz; Phase)		115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph	115/208/230V,60Hz,1Ph
Basic Parameter	ODU Power Supply(Volts; Hz; Phase)		208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph	208/230V,60Hz,1Ph
	Cooling Capacity	Btu/h	18000	24000	30000	36000	48000	54000
	Cooling Input	W	1635	2181	2778	3600	4800	6200
National Certification	Cooling Current	A	7.5	9.5	12.2	15.2	22.2	27.4
	SEER2	Btu/h/W	18.8	18.1	17	16.1	16	15.2
	EER2	Btu/h/W	11	11	10.7	10	10	8.6
	Cooling Capacity Range	Btu/h	5350~20000	7200~27000	10400~34000	8300~38900	16600~49900	21000~55000
	Cooling Input (range)	W	400 ~ 1900	530 ~ 2870	735 ~ 3230	710 ~ 4500	1400 ~ 5350	1800 ~ 6410
	Cooling Current(range)	A	2.8 ~8.5	3.4 ~12.6	3.55 ~14.23	4.7 ~18.3	6.5 ~23.8	8.3 ~28.5
	Heating Capacity	Btu/h	18000	26000	31000	36000	48000	54000
	Heating Input	W	1675	2396	2595	3100	4085	4650
	Heating Current	A	7.3	10.4	11.5	13.1	18.3	21
	HSPF2-4	Btu/h/W	9.1	9.7	8.5	8.7	8.5	8.4
	HSPF2-5	Btu/h/W	7	7.7	6.6	7	7.2	6.8
	COP	W/W	3.15	3.18	3.5	3.4	3.45	3.37
	Heating Capacity Range	Btu/h	5600~19000	7100~30000	6400~32000	6700~41300	15300~49500	26000~55000
	Heating Input(range)	W	340 ~1650	440 ~2730	455 ~2550	460 ~3550	1025 ~4650	975 ~4810
	Heating Current(range)	A	2.6 ~7.5	2.40 ~12.0	2.46 ~11.3	2.5 ~15.6	3.6 ~20.6	6.6 ~21.5
	Heating(H32) Rated capacity	Btu/h	12600	20000	18500	25600	32400	33000
	Heating(H32) COP	W/W	2.6	2.42	2.4	2.6	2.47	2.34
	Heating(H42) Rated capacity	Btu/h	11200	21600	19100	27000	38000	38000
	Heating(H42) COP	W/W	2	1.87	2	2	1.85	1.8
	Cooling at 109 F (43°C) Rated capacity	Btu/h	15600	25000	29000	31000	42000	41800
	Cooling at 5 F (-15°C)	Btu/h	19600	25600	34000	36000	53500	58000
	Heating at 17F (-8.33°C) Rated capacity	Btu/h	12600	22000	20600	30000	39000	34500
	Heating(H42) 5F(-15°C) Rated capacity	Btu/h	11200	21600	19100	27000	38000	38000
	Heating at -4F (-20°C) Rated capacity	Btu/h	9000	17300	15500	25000	34200	33000
	Heating at -13F (-25°C) Rated capacity	Btu/h	7200	14400	12200	20000	32500	29000
	Indoor MAX.FUSE	A	15	15	15	15	15	15
	Outdoor MINIMUM CIRCUIT AMPACITY	A	16	19	22.5	24	36	39
	Outdoor MAX.FUSE	A	20	20	25	30	40	40
	Communication Wiring		AWG 20-2	AWG 20-2	AWG 20-2	AWG 20-2	AWG 20-2	AWG 20-2
	Indoor Indoor fan motor RLA	A	2	3	4.5	4.5	7.8	8.3
	Outdoor Outdoor fan motor RLA	A	0.8	1	1.1	1.5	2	1.2
	Outdoor Compressor Rated current(RLA)	A	10	14	17	17.5	27	30
	Outdoor Outdoor air flow	m³/h	2465	3000	5100	4100	5160	5160
	Outdoor Outdoor air flow	CFM	1450.9	1765.7	3001.8	2413.2	3037.1	3037.1
	Outdoor noise level (Hi)	dB(A)	55	60	60	63	65	65
Basic Parameter (NC)	N.A. Design pressure	PSI	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340
	Outdoor Refrigerant type		R454B	R454B	R454B	R454B	R454B	R454B
	Outdoor Refrigerant charge	kg	1.45	2.1	2.6	3.3	3.8	3.8
	Outdoor Refrigerant charge	oz	51.15	74.08	91.71	116.40	134.04	134.04
	Outdoor Additional charge per metre	g/m	65	65	65	65	65	65
	Outdoor Additional charge	oz/ft	0.7	0.7	0.7	0.7	0.7	0.7
	Gas side	mm(inch)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)	19mm(3/4in)
	Max. refrigerant pipe length	m	30	50	50	75	75	75
	Max. Piping Length	ft	98.4	164	164	246	246	246
	Max. difference in level	m	20	25	25	30	30	30
	Max. Height Difference	ft	65.6	82	82	98.4	98.4	98.4
	Room temperature_Indoor(cooling)	°C	16~32	16~32	16~32	16~32	16~32	16~32
	Room temperature_Outdoor(cooling)	°C	-25~50	-25~50	-25~50	-25~50	-25~50	-25~50
	Room temperature_Indoor(heating)	°C	0~30	0~30	0~30	0~30	0~30	0~30
	Room temperature_Outdoor(heating)	°C	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
	Indoor Operating Temp. Range(Cooling)	°C	60~90	60~90	60~90	60~90	60~90	60~90
	Outdoor Operating Temp. Range(Cooling)	°C	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122
	Indoor Operating Temp. Range(Heating)	°C	32~86	32~86	32~86	32~86	32~86	32~86
	Outdoor Operating Temp. Range(Heating)	°C	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75
Size/Weight	Outdoor Item Net/Gross weight	lb	77.16/83.77	102.29/109.13	141.76/152.34	153.22/163.58	192.90/224.21	192.90/224.21
	Outdoor Unit Dimension WxDxH	inch	31.69 x 12.99 x 21.81	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	38.58 x 16.34 x 38.39	38.58 x 16.34 x 38.39
	Outdoor Package Dimension WxDxH	inch	36.02 x 14.57 x 24.21	39.17 x 15.67 x 29.13	42.91 x 19.68 x 34.84	42.91 x 19.68 x 34.84	45.08 x 19.68 x 42.52	45.08 x 19.68 x 42.52
Electrical Motor	Indoor Indoor Fan Motor Model		ZKFD-250-8-1	ZKFD-250-8-1	ZKFD-375-8-1-1	ZKFD-375-8-1-1	ZKFD-750-8-1-1	ZKFD-750-8-1-1
	Indoor Output	W	250	250	375	375	750	750
Outdoor Electrical Motor	Outdoor Outdoor Fan Motor Model		ZKFN-34-10-1L-1	ZKFN-80-8-3	ZKFN-120-8-2	ZKFN-120-10-1L	ZKFN-250-10-1	ZKFN-250-10-1
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/L0)	r/min	840/700/650	810/700/450	850/700/500	800/750/500	850/800/750/650	850/800/750/650
Compressor	Outdoor Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Outdoor Compressor Model		KSN140D58UFZ	KTM240D46UKT2	KTF250D222UMT	KTF310D43UMT	MTH550UKPC8FU	MTH550UKPC8FU
	Outdoor Compressor Brand		GMCC	GMCC	GMCC	GMCC	HIGHLY	HIGHLY
	Outdoor Compressor Capacity	W	4315	4780/7600	8095	10010	16250	16250
	Outdoor Compressor Input Power	W	1090	805/2045	2200	2765	4900	4900
	Outdoor Compressor Rated current	A	7.2	4.15/9.30	10	5.4	21	21
	Outdoor Refrigerant oil		VG74	VG74	VG74	VG74	HAF68D1C	HAF68D1C
	Outdoor Refrigerant oil charge	mL	440	620	670	1000	1800	1800

Inverter Square Ducted Split

High Efficiency And Energy Saving



Inverter Square Ducted Split



Information	Model		SAK-24SQN2-M18M	SAK-36SQN2-M18M	SAK-48SQN2-M18M	SAK-60SQN2-M18M
Electrical Daten	Voltage-Phase-Hz	V-Ph-Hz	208/230V-1Ph-60Hz			
	Minimum Circuit Ampacity	A	15	20	25	30
	Max. Overcurrent Protection	A	20	25	35	40
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Refer to Room Area	square feet		365~660	536~990	709~1320	835~1650
	Brand		GMCC	GMCC	GMCC	GMCC
	Type		Rotary	Rotary	Rotary	Rotary
	Hz		18-100	18-100	18-100	18-100
	Capacity	W/h	6700	6700	13000	13000
	Input	W	1805	1805	3650	3650
	Rated current(RLA)	A	10	12.8	15.8	20
	Refrigerant oil	ml	920	920	1300cc	1300cc
	Refrigerant Oil Type		POE VG74			
	LRA		52	52	58.1	58.1
	Brand		board-ocean	board-ocean	board-ocean	board-ocean
	Type		DC	DC	DC	DC
	Power	W	200	200	200	200
	Rated HP	HP	1/4	1/4	1/4	1/4
	Speed	rpm	1100	1100	1100	1100
	FLA (RLA)	A	1.8	1.8	1.8	1.8
Outdoor Fan	material		Metal			
	Type		Axial flow			
	Diameter	mm	φ595×115×φ12.7	φ595×115×φ12.7	φ595×115×φ12.7	φ595×115×φ12.7
Outdoor coil	Number of row		2	2	2	2
	Number of U-tubes		28		38	
	Tube outside dia	mm (in.)	7 (9/32)	7 (9/32)	7 (9/32)	7 (9/32)
	Fin spacing / Thickness / Type	mm / mm	1.4 / 0.095 / Hydrophilic aluminium			
	Length (outside/inside row)*Width*Height	mm	(2136/2076)*26.76*588		(2136/2073)*26.74*798	
Outdoor Sound power	Tube pitch(a) × row pitch(b)	mm	13.37 × 21	13.37 × 21	13.37 × 21	13.37 × 21
		dB(A)	76	79	76	79
Outdoor CFM		CFM	3900	3900	4440	4440
Outdoor Electrical Motor2	Dimension (W×H×D)	mm	750*635*750		750*835*750	
		inch	29-1/8×25×29-1/8		29-1/8×32-7/8×29-1/8	
	Packing (W×H×D)	mm	760×660×760		760×875×760	
		in.	30×26×30		30/16×34-4/9×3	
	Net / Gross weight	kg	62/66	62/66	85/ 89	85/ 89
		lbs	137/146	137/146	187 / 196	187 / 196
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge	oz	R454B/116.4	R454B/116.4	R454B/155.2	R454B/155.2
	Metering device		EEV	EEV	EEV	EEV
	Maximum Line Length	ft	100	100	100	100
	Maximum Elevation Difference	ft	50	50	50	50
Communica- tion wire		AWG	20	20	20	20
Operating temperatures	Cooling	°F	5-125	5-125	5-125	5-125
	Heating	°F	-4-86	-4-86	-4-86	-4-86

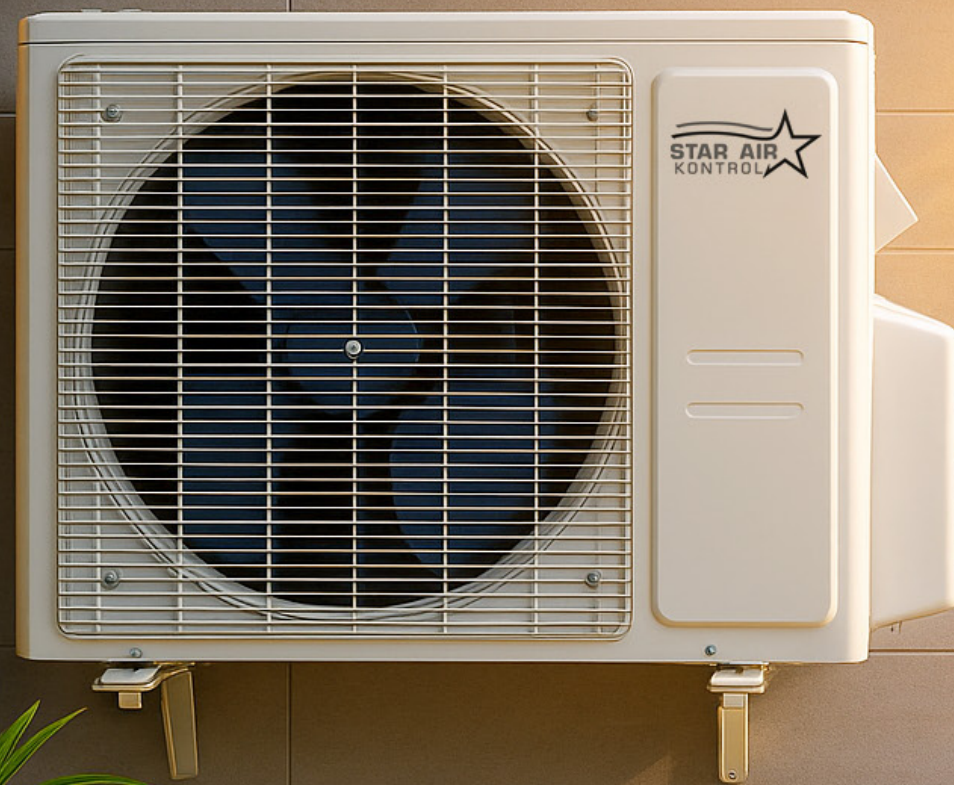
Inverter Square Ducted Split



Information		SAK-24SQN2-M18M		SAK-36SQN2-M18M		SAK-48SQN2-M18M		SAK-60SQN2-M18M		
Cooling	Capacity	Btu/h	24000		34000		47500		55000	
	Power input (A2)	w	1819		2864		4145		5549	
	EER2	Btu/h.W	13.3		11.7		11.3		10	
	SEER2	Btu/h.W	20		18.6		17.5		17	
Heating	Capacity	Btu/h	24000		34200		48000		57000	
		Btu/h(17°F)	19200		24000		40000		42000	
		Btu/h(5°F)	20000		24000		34200		42500	
	Power input (H1)	w	1957		2997		3580		4900	
	5□ COP	W/W	2.1		2.1		2.1		2	
	HSPF2	Btu/h.W	9.4		9.0		9.0		8.6	
Minimum Circuit Ampacity		A	4		4		5		5	
Max. Overcurrent Protection		A	6		6		10		10	
Indoor coil	Number of rows*coil quantity		4*2		4*2		2*4		2*4	
	Tube outside dia. / Type		7mm / Rifled tube							
	Fin spacing / Thickness / Type		mm / mm 1.6 / 0.095 / Hydrophilic aluminium							
	Length*Width*Height		mm 447*420*53.48				546*511*26.74			
	Tube pitch(a) × row pitch(b)		mm 13.37*10.5		13.37*10.5		13.37*10.5		13.37*10.5	
Indoor motor	type		ECM							
	Rate power	W	249		373		560		560	
	Rated HP	HP	1/3		1/2		3/4		3/4	
	Rated RPM	r/min	1050		1050		1050		1050	
	FLA (RLA)	A	2.6		3.8		5.4		5.4	
Indoor fan	material		Galvanized plate							
	Type		Centrifugal							
	Diameter	inch	φ273×272×φ12.7-195		φ273×272×φ12.7-195		φ273×272×φ12.7-195		φ273×272×φ12.7-195	
Indoor air flow (HI/LOW)		CFM	700/600		1050/750		1550/1180		1550/1180	
ESP		Pa	125		125		125		125	
Indoor noise level (HI/LOW)		dB(A)	51/48		52/49		59/55		59/55	
Metering device	Throttle type		TXV							
	Model number		3TR		3TR		5TR		5TR	
Electrical Data	Voltage-Phase-Hz		V-Ph-Hz		208/230V 1Ph 60Hz					
	Minimum Circuit Ampacity		4		4		5		5	
	Max. Overcurrent Protection		6		6		10		10	
	Min / Max Volts		V 187 / 253		187 / 253		187 / 253		187 / 253	
	communication wire		AWG 20		20		20		20	
Indoor unit	Dimension (W×H×D)	mm	500×1162×560				560×1350×620			
		in.	19-5/8×45-3/4×22				22×53-1/8×24-1/2			
	Packing (W×H×D)	mm	580×1210×650				640×1390×710			
		in.	22-5/6×47-5/8×25-3/5				25-1/5×54-3/4×28			
	Net / Gross weight	kg	59 / 65		59 / 65		77/83		77/83	
		lbs	130/ 143		130/ 143		169/182		169/182	
Moisture Removal		kg/h	2.79		4.2		5.12		7.07	
Refrigerant piping Liquid side / Gas side		in.	3/8 / 3/4		3/8 / 3/4		3/8 / 7/8		3/8 / 7/8	

Multi Zone Condenser 18K-60K

High Efficiency And Energy Saving



Full DC Design

DC inverter compressor and motor ensures increased energy savings and reliability of the system.



Smart Defrosting

Precision defrost sensor accurately determines defrost cycle duration allowing the system to provide heat when you need it most.



Wide Temperature Operation

Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



Refrigerant Leakage Alarm

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



Multiple Security Protection



Voltage Protection



Overheating Protection



Temperature Protection

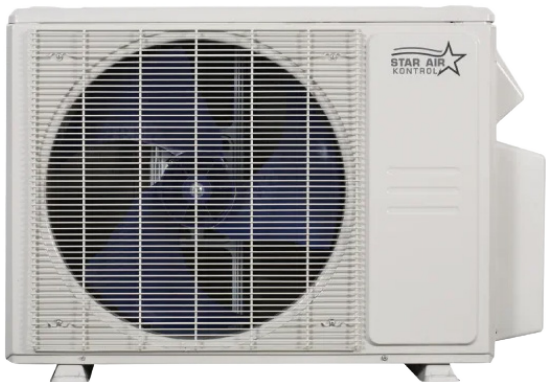


Overcurrent Protection



Lack-phase Protection

Multi Zone Condenser 18K-60K



Information	Attribute Name	Unit					
Basic Information	Outdoor Market Model	SAK-18-DZ/220V		SAK-27-TZ/220V		SAK-36-QZ/220V	
	Power Supply(Volts; Hz; Phase)	208/230V,60Hz,1Ph		208/230V,60Hz,1Ph		208/230V,60Hz,1Ph	
Basic Parameter	Voltage Range	V		187-253		187-253	
	Cooling Capacity	Btu/h		18000		26000	
National Certification	Cooling Input	W		1440		2130	
	Cooling Current	A		6.2		10	
	SEER2	Btu/h/W		23		23.1	
	EER2	Btu/h/W		12.5		12	
	Cooling Capacity Range	Btu/h		5400~21600		7200~32000	
	Cooling Input (range)	W		400 ~ 1900		500 ~ 2730	
	Cooling Current(range)	A		3.5 ~8.5		4.0 ~12.0	
	Heating Capacity	Btu/h		19000		27000	
	Heating Input	W		1465		2198	
	Heating Current	A		6.6		10	
	HSPF2-4	Btu/h/W		10		9.5	
	HSPF2-5	Btu/h/W		7.7		7.1	
	COP	W/W		3.8		3.6	
	Heating Capacity Range	Btu/h		5700~21600		8400~29200	
	Heating Input(range)	W		350 ~1900		500 ~2560	
	Heating Current(range)	A		3.0 ~8.5		4.0 ~11.5	
	Heating(H32) Rated capacity	Btu/h		13500		18000	
	Heating(H32) COP	W/W		2.6		2.5	
	Heating(H42) Rated capacity	Btu/h		13500		19000	
	Heating(H42) COP	W/W		2.2		2	
	Cooling Capacity at 109 F (43°C)	Btu/h		16000		24800	
	Cooling Capacity at 5F (-15°C)	Btu/h		25000		30000	
	Heating Capacity at 17F (-8.33°C)	Btu/h		14000		18000	
	Heating Capacity at 5F(-15°C)	Btu/h		13500		19000	
	Heating Capacity at -4F (-20°C)	Btu/h		10000		13600	
	Heating Capacity at -13F (-25°C)	Btu/h		8000		11800	
	Heating Capacity at -22F (-30°C)	Btu/h		/		/	
Basic Parameter (NC)	Moisture removal	L/h		1.3		2	
	Outdoor MINIMUM CIRCUIT AMPACITY	A		16		23	
	Outdoor Max.Fuse	A		20		25	
	Connection wiring	AWG 14-4		AWG 14-4		AWG 14-4	
	Outdoor Outdoor fan motor RLA	A		1.0		1.2	
	Outdoor Compressor Rated current(RLA)	A		8.2		12.1	
	Outdoor Outdoor air flow	m³/h		3000		3620	
	Outdoor Outdoor Air Flow(CFM)	CFM		1765.8		2130.7	
	Outdoor noise level (Hi)	dB(A)		60		61	
	N.A. Design pressure	PSI		550 / 340		550 / 340	
	Outdoor Refrigerant type			R454B		R454B	
	Outdoor Refrigerant charge	ozs		61.73		84.66	
	Outdoor Additional refrigerant per ft	oz/ft		0.16		0.16	
	Outdoor Throttle type			EXV+Capillary		EXV	
	Liquid side	mm(inch)		3x6.35mm(3x1/4in)		4x6.35mm(4x1/4in)	
	Gas side	mm(inch)		3x9.52mm(3x3/8in)		3x9.52mm+1x12.7mm(3x3/8in+1x-1/2in)	
	Max. Length per each indoor unit	ft		98.4		114.8	
	Total Maximum Piping Length per system	ft		196.8		262.4	
	Max. Height Difference	ft		49.2		49.2	
	Indoor Operating Temp. Range(Cooling)	°F		60~90		60~90	
	Outdoor Operating Temp. Range(Cooling)	°F		-13~122		-13~122	
	Indoor Operating Temp. Range(Heating)	°F		32-86		32-86	
	Outdoor Operating Temp. Range(Heating)	°F		-13~75		-13~75	
OutdoorElec-tricalMotor	Outdoor Item Net/Gross weight	lb		100.53/109.35		138.89/149.69	
	Outdoor Unit Dimension WxDxH	inch		35.04 x 13.46 x 26.50		37.24 x 16.14 x 31.89	
	Outdoor Package Dimension WxDxH	inch		40.55 x 17.24 x 29.53		42.91 x 19.68 x 34.84	
OutdoorElec-tricalMotor2	Outdoor Outdoor Fan Motor Model			ZKFN-80-10-1L		ZKFN-120-8-9	
	Outdoor Outdoor Fan Motor Output	W		80		120	
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)	r/min		750/600/500		800/700/650	
Compressor	Outdoor Outdoor Fan Motor Model					ZKFN-85-10-1L	
	Outdoor Outdoor Fan Motor Output power2	W				85	
	Outdoor Outdoor Fan Motor Speed(Hi/Mid/Lo)2	r/min				800/700/650	
Compressor	Outdoor Compressor Type			Twin-ROTARY		ROTARY	
	Outdoor Compressor Model			KTN150D30UFZA		KTM240D46UKT2	
	Outdoor Compressor Brand			GMCC		GMCC	
	Outdoor Compressor Capacity	W		4730		4780/7600	
	Outdoor Compressor Input Power	W		1250		805/2045	
	Outdoor Compressor Rated current	A		8.1		4.15/9.30	
	Outdoor Refrigerant oil			V74		V74	
	Outdoor Refrigerant oil charge	mL		450		620	



TTW (Through The Wall)

High Efficiency And Energy Saving

TTW

Star Air Model		TTW-12AC-115V		TTW-12AC-220V		TTW-08HS-115V		TTW-14HS-220V	
Code									
Factory model									
Sale model									
Power supply	115V_1Ph,FREQUENCY_60HZ		115V,1Ph,60Hz	208And230V_1Ph,FREQUENCY_60HZ		208/230V,1Ph,60Hz	115V_1Ph,FREQUENCY_60HZ	208And230V_1Ph,FREQUENCY_60HZ	208And230V_1Ph,FREQUENCY_60HZ
Cooling (Standard conditions)	Capacity	Btu/h	8300	12000	12000/11700	14000/13600	8000	12000/11700	14000/13600
	CEER	Btu/h/W	10.6	10.5	10.5	9.5	9.6	9.5	9.5
	Input	W	760	1140	1140/1110	1400/1360	750	1180/1160	1430/1400
	Current	A	7.8	11.3	5.6/6.3	7.0/7.7	9.4	6.5/7.0	7.9/8.5
	Standby power	W	1.25	1.25	1.435	1.435	/	/	/
Heating(PTC)	Capacity	Btu/h	0	/	0	/	4200	10600/8600	10600/8600
	Input(Heater)	W	0	/	0	/	1220	3450/2821	3450/2821
	Total Input	W	/	/	/	/	/	/	3450
	Current	A	0	/	0	/	11	15/13.5	15.0/14.0
Heating(Heat pump) (Standard conditions)	Capacity	Btu/h	/	/	/	/	/	/	/
	Input	W	/	/	/	/	/	/	/
	Current	A	/	/	/	/	/	/	/
	COP	W/W	/	/	/	/	/	/	/
Moisture Removal	L/h	/	/	/	/	/	/	/	/
Rated Power Input	W	1120	1420	1472	1818	1350	3450	3450	3450
Rated Current	A	11.2	14.0	7.9	9.7	11	15	15	15
Starting current	A	33.6	52	28.5	35	33	45	/	/
Compressor	Model	KSN66E11VBZC1		KSM99E11VEZ	KSM100N11VEZ	KSM120N1UEZ	KSN66E11VBZC1	KSM100N11VEZ	KSM120N1UEZ
	Type	ROTARY		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	GMCC		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	W	2395	3545	3590/3620	3640/3680	2395	3590/3620	3640/3680
	Input	W	577	840	850/875±3%	1240/1260±3%	585	850/875±3%	1240/1260±3%
	current	A	5.10	7.30	4.18/3.85±3%	6.00/5.55±3%	5.10	4.18/3.85±3%	6.00/5.55±3%
	Locked rotor Amp(LRA)	A	36	49	28.5±10%	34.5±10%	29	28.5±10%	34.5±10%
	Thermal protector	/		UP3-27/HPA-544	UP-A2H/HPA-325H	HPA-530H	/	UP-A2H/HPA-325H	HPA-530H
	Thermal protector position	INTERNAL		INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL
	Capacitor	uF	50	70	35	35	50	35	35
Refrigerant type	Refrigerant oil/oil charge	ml	VG68 190±10	ESTER OIL VG74 320	VG68 300±15	VG68 300±15	VG68 190±10	VG68 300±15	VG68 300±15
	Type	R32		R32	R32	R32	R32	R32	R32
		0.31kg		0.49kg	0.47kg	0.51kg	0.34kg	0.49kg	0.55kg
Design pressure	oz(1kg=35.274oz)								
Fan motor	psi	300/520		300/520	300/520	300/520	300/520	300/520	300/520
	Model	YKTS-70-4-13		YKTS-105-4-52	YKTS-100-4-52	YKTS-100-4-52	ZKFP-120-8-97L	ZKFP-120-8-97L	ZKFP-120-8-97L
	Input	W	140	170	170	170	/	/	/
	current	A	/	/	/	/	/	/	/
	Capacitor	uF	15	15	5	5	/	/	/
	Speed(hi/mi/lo)	r/min	1330/1180/1040	1480/1360/1230	1460/1380/1280	1500/1440/1340	1370/1210/1040	1550/1440/1340	1550/1440/1340
	Capacitor class	P2		P2	S3	P2	/	/	/
	Insulation class	B		B	B	B	B	B	B
Evaporator	Waterproofing class	/		/	/	/	IP24	IP24	IP24
	a.Number of rows	2		4	4	4	2	3	4
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6
	c.Fin spacing	mm	1.2	1.3	1.3	1.3	1.2	1.3	1.3
	d.Fin type (code)	Hydrophilic aluminum		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	506x252x26.74	505x252x53.48	505x252x53.48	505x252x53.48	506x252x26.74	505x252x53.48	505x252x53.48
Indoor side air flow(Hi/ Mi/Lo)	g.Number of circuits	2		4	4	4	2	4	4
	m3/h	459/396/345		470/426/374	467/441/403	476/450/417	440/386/327	465/428/392	463/428/396
Indoor side noise level (Hi/ Mi/Lo)	1 m3/h = 0.588 ft3/min	ft3/min	270.00/232.94/202.94	276.47/250.59/220.00	274.71/259.41/237.06	280.00/264.71/245.29	258.82/227.06/192.35	273.53/251.76/230.59	272.35/251.76/232.94
Indoor side noise level (Hi/ Mi/Lo)	dB(A)	55.6/52.4/49.5		59/56.8/55.3	60.2/59/57.5	60.5/59.5/58	58.7/55.4/52	61.8/60/58	62.3/61.2/59.8



Spec for TTW (Continued)

Star Air Model		TTW-12AC-115V		TTW-12AC-220V		TTW-08HS-115V		TTW-14HS-220V	
Condenser	a.Number of rows		3	3	3	3	3	3	3
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6
	c.Fin spacing	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube
	f.Coil length x height x width	mm	380x351x34.8	380x351x34.8	380x351x34.8	380x351x34.8	380x351x34.8	380x351x34.8	380x351x34.8
	g.Number of circuits		2	2	2	2	2	2	2
Outdoor air flow (Hi/Med/Lo) m3/h	m3/h		795/670/567	925/825/721	906/845/770	942/895/828	722/613/504	767/695/623	816/747/680
1 m3/h = 0.588 ft3/min	ft3/min		467.65/394.12/333.53	544.12/485.29/424.12	532.94/497.06/452.94	554.12/526.47/487.06	424.71/360.59/296.47	451.18/408.82/366.47	480.00/439.41/400.00
Outdoor side noise level(Hi)	dB(A)		63.6/59.4/55.9	68.7/65.3/62	68.3/66.7/63.9	69.9/68/65.9	63.5/59.7/55.9	65.4/63.2/61.1	69.8/67.2/64.8
Plug type			LCDI(5-15P)	LCDI(5-15P)	LCDI(6-15P)	LCDI(6-15P)	LCDI(6-15P)	LCDI(6-20P)	LCDI(6-20P)
Power cord type			16#x3	14#x3	14#x3	14#x3	14#x3	12#x3	12#x3
Power Cord Length		mm	2140	2140	1980	1980	1700	1700	1700
Power Cord Length		ft	7.02	7.02	6.50	6.50	5.58	5.58	5.58
Control type			(Remote Control)	(Remote Control)	(Remote Control)	(Remote Control)	(Remote Control)	(Remote Control)	(Remote Control)
Operation temp	indoor(cooling/heating)	℃	17-32//	17-32//	17-32//	17-32//	17-32//	17-32//	17-32//
		℉(=℃*1.8+32)	///	///	///	///	///	///	///
	outdoor(cooling/heating)	℃	18-43//	18-43//	18-43//	18-43//	18-43/-5-24	18-43/-5-24	18-43/-5-24
		℉(=℃*1.8+32)	///	///	///	///	///	///	///
Dimension (W*D*H) TTW/OPP/MSII/HD(D*W*H))	mm		615x515x369	615x515x369	615x515x369	615x515x369	615x515x369	615x515x369	615x515x369
	in		24.21x20.28x14.53	24.21x20.28x14.53	24.21x20.28x14.53	24.21x20.28x14.53	24.21x20.28x14.53	24.21x20.28x14.53	24.21x20.28x14.53
Packing (W*D*H)	mm		710x675x430	710x675x430	710x675x430	710x675x430	710x675x430	710x675x430	710x675x430
	in		27.95x26.57x16.93	27.95x26.57x16.93	27.95x26.57x16.93	27.95x26.57x16.93	27.95x26.57x16.93	27.95x26.57x16.93	27.95x26.57x16.93
Net/Gross weight	kg		29.7/35	34/39.7	33.8/39.4	34.2/39.8	30.3/35	34/38.9	35.1/39.8
	lb		65.48/77.16	74.96/87.52	74.52/86.86	75.40/87.74	66.80/77.16	74.96/85.76	77.38/87.74
Loading quantity 20' /40' /40'HQ	Pieces		120/255/306	120/255/306	120/255/306	120/255/306	120/255/306	120/255/306	120/255/306
Window Opening	Width(Min/Max)(Inches)	in	26.8/36	26.8/36	26.8/36	26.8/36	26.8/36	26.8/36	26.8/36
	Height(Min)(Inches)	in	15.5	15.5	15.5	15.5	15.5	15.5	15.5

Window Units

High Efficiency And Energy Saving





Window Units

Star Air Model		WAC-05AC-115V	WAC-06AC-115V	WAC-08AC-115V	WAC-10AC-115V	WAC-12AC-115V	WAC-15AC-115V	WAC-18AC-220V	WAC-25AC-220V	WAC-08HS-115V	WAC-12HS-220V	WAC-18HS-220V	WAC-25HS-220V	
Code														
Sale model		MWHUK-05CRN8-BCK0	MWHUK-06CRN8-BCK0	MWHUK-08CRN8-BCJ9	MWAUK-10CRN8-BCJ9	MWAUK-12CRN8-BCJ9	MWHUK-15CRN8-BCK8	MWJUK-18CRN8-MCK8	MWJUK-25CRN8-MCJ3	MWKUK-08ERN8-BCJ9	MWKUK-12ERN8-MCJ9	MWCUWH-18ERN8-MCJ7	MWCUWH-23ERN8-MCI4	
Power supply	V-Ph-Hz	115V,1Ph,60Hz	115V,1Ph,60Hz	115V_1Ph,FREQUEN-CY_60HZ	115V,1Ph,60Hz	115V_1Ph,FREQUEN-CY_60HZ	115V,1Ph,60Hz	208And230V_1Ph,FREQUEN-CY_60HZ	208And230V_1Ph,FREQUEN-CY_60HZ	115V_1Ph,FREQUEN-CY_60HZ	208And230V_1Ph,FREQUEN-CY_60HZ	208_230V_1Ph,FREQUENCY_60HZ	208And230V_1Ph,FREQUENCY_60HZ	
Cooling (Standard conditions)	Capacity	Btu/h	5000	6000	8000	10000	12000	15100	18000/17700	25000/24700	8000	12000/11600	18800/18400	23200/22900
	CEER	Btu/h/W	11.0	11.0	10.9	10.9	10.9	11.8	11.8	10.3	10.9	10.9	10.7	9.4
	Input	W	450	545	714	905	1100	1280	1525/1500	2427/2398	734	1103/1066	1760/1720	2470/2440
	Current	A	4.60	5.1	6.75	9.4	10.03	11.85	7.2/7.6	12.2/13.0	8.9	6.1/6.9	9.8/10.8	13.5/14.8
	Standby power	W	0.9	/	/	1.2	1.1	1.2	1.35	1.55	1.136	1.45	1.34	1.42
Heating(PTC)	Capacity	Btu/h	0	/	/	0	0	0	/	/	3500	11000/8500	16000/13000	16000/13000
	Input(Heater)	W	0	/	/	0	0	0	/	/	1390	3360/3200	4800/3925	4800/3925
	Total Input	W	/	/	/	0	0	/	/	/	1380	3600	/	/
	Current	A	0	/	/	0	0	0	/	0	11.9	14.5/15.7	21.9/19.9	22/20
Heating(Heat pump) (Standard conditions)	Capacity	Btu/h	0	/	/	0	0	0	/	/	/	/	/	/
	Input	W	0	/	/	0	0	0	/	/	/	/	/	/
	Current	A	0	/	/	0	0	0	/	/	/	/	/	/
	COP	W/W	0	/	/	0	0	0	/	/	0	/	/	/
Moisture Removal	L/h	/	/	/	0	0	/	/	/	0	/	/	/	
Rated Power Input	W	580	700	1050	1067	1354	1650	2150	3300	1400	3360	5180	5180	
Rated Current	A	5.7	6.5	10.3	10.61	12.88	15	11.5	16.8	11.9	15.7	22.5	22.5	
Starting current	A	20	20	30.3	31.83	38.64	45	34.5	50.4	36	47.4	67.5	67.5	
Compressor	Model		KSN43E21VAJ3	KSN51E11VAJB3	KSN66E11VBZC1	KSN78E11VBZC1	KSM103E12VEZF	KSM120E1VET	KSF150N1VETB3	KSG230N1VMT	KSN66E11VBZC1	KSM106N1VDZK	KSF160N1VET	KSF210N1VETB3
	Type		/	Rotary	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	W	1530	1865	2395	2875	3775	4450	5610	8610/8695	2395	3910/3970	5940/6085	7920/7980
	Input	W	395	450	585	685	900	1060	1270	1950/1985	577	925/935	1375/1390	1800/1840
	current	A	3.55	3.98	5.10	6.15	7.90	9.35	5.8	9.45/8.65	5.10	4.48/4.12	6.75/6.1	8.75/8.10
	Locked rotor Amp(LRA)	A	20	/	29	36	54	□at 1φ-120V-60Hz□ 57±10% A	40	58	36	24	39	55
	Thermal protector		UP3-A0H/HPA-318H	UP3-B1H/HPA-222H	/	UP3-65H	UP3-27/HPA-544	/	HPA-436	HPA-552/UP3-29	/	UP3-41/HPA-622	UP3-65/HPA-736	HPA-552H
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL
	Capacitor	uF	35	40	50	50	70	70	50	60	50	35	50	60
Refrigerant type	Refrigerant oil/oil charge	ml	VG68 190	ESTER OIL V68 190±10	VG68 190±10	VG68 190	ESTER OIL VG74 320	ESTER OIL VG74-320ml	VG74 290±15ml	VG74 610	VG68 190±10	ESTER OIL VG68 300	VG74/410	VG68/410
	Type		R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
	oz(1k-g=35.274oz)		0.185kg	0.22kg	0.26kg	0.33kg	0.37kg	0.54kg	0.7kg	0.83kg	0.315kg	0.41kg	0.64kg	0.85kg
Design pressure	psi		300/520	300/520	300/520	300/520	300/520	300/520	300/520	300/580	300/580	300/520	300/520	
Fan motor	Model		YKTS-35-4-66L	YKTS-40-4-64L	YKTS-60-4-56L	YKTS-90-4-12L	YKTS-90-4-12L	YKSS-110-6-1L	YKSS-140-6-3L	YKSS-150-6-7L	YKTS-90-4-12L-2	YKTS-105-4-55L	ZKFP-175-8-1L	ZKFP-175-8-1L
	Input	W	/	/	95	145	145	210	190	280	/	/	/	/
	current	A	/	/	/	/	/	/	/	/	/	/	/	/
	Capacitor	uF	6	6	15	15	15	15	5	8	15	4	/	/
	Speed(hi/mi/lo)	r/min	1530/1370/1250	1580/1340/1250	1540/1340/1200	1585/1365/1246	1585/1365/1246	1040/950/830	1110/1000/890	1120/1030/930	1350/1250/1120	1500/1380/1240	1100/1000/900	1150/1070/1000
	Capacitor class		S2	S2	S2	P2	P2	S2	P2	P2	S2	P2	/	/
	Insulation class		B	B	B	B	B	B	B	B	B	B	B	B
	Waterproofing class		/	IP24	/	/	/	/	/	/	IP24	IP24	IP24	IP24

Window Units (Continued)

Star Air Model		WAC-05AC-115V	WAC-06AC-115V	WAC-08AC-115V	WAC-10AC-115V	WAC-12AC-115V	WAC-15AC-115V	WAC-18AC-220V	WAC-25AC-220V	WAC-08HS-115V	WAC-12HS-220V	WAC-18HS-220V	WAC-25HS-220V
Evaporator	a.Number of rows	2	2	3	3	3	3	4	3	3	3	4	4
	b.Tube pitch(a)x row pitch(b)	mm 19.5x11.6	14.5x12.56	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	14.5x12.56	19.5x11.6	19.5x11.6
	c.Fin spacing	mm 1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.3	1.3
	d.Fin type (code)	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm 275x210x26.74	275x210x26.74	320x210x40.11	380x252x40.11	380x252x40.11	480*294*40.11	480x294x53.48	560x315x40.11	380x252x40.11	380x252x40.11	480x294x53.48	480x294x53.48
	g.Number of circuits	1	1	2	2	2	4	4	4	2	2	4	4
Indoor side air flow(Hi/Mi/Lo)	m3/h	272/242/217	265/236/210	320/280/244	544.8/464.9/423.3	543.2/464.2/422.8	638/573/509	617/557/512	783/752/716	523/435/389	543/482/426	763/684/605	810/746/686
	1 m3/h = 0.588 ft3/min	ft3/min 160.00/142.35/127.65	155.88/138.82/123.53	188.24/164.71/143.53	320.47/273.47/249.00	319.53/273.06/248.71	375.29/337.06/299.41	362.94/327.65/301.18	460.59/442.35/421.18	307.65/255.88/228.82	319.41/283.53/250.59	448.82/402.35/355.88	476.47/438.82/403.53
Indoor side noise level (Hi/ Mi/Lo)	dB(A)	56/54/52	57/55/52	59/55.5/53.5	59.5/55/53	60.5/57/55	58/0/0	57.5/55.5/54.5	59.3/58.5/57.5	60/56.5/55	61/58/55	58.5/57/55	59.5/57.8/56.3
Condenser	a.Number of rows	2	2	2	3	3	3	4	4	3	3	3	4
	b.Tube pitch(a)x row pitch(b)	mm 19.5x11.6	14.5x12.56	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	19.5x11.6	14.5x12.56	19.5x11.6	19.5x11.6
	c.Fin spacing	mm 1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	d.Fin type (code)	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium
	e.Tube outside dia.and type	mm Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube
	f.Coil length x height x width	mm 350x293x23.2	350x290x25.12	409x331.5x23.2	415x351x34.8	415x351x34.8	510x390x34.8	510x390x46.4	585x410x46.4	415x351x34.8	415x348x37.68	510x390x34.8	510x390x46.4
	g.Number of circuits	1	1	1	2	2	3	4	4	2	3	3	3
Outdoor air flow (Hi/Med/Lo) m3/h	m3/h	0/0/0	0/0/0	0/0/0	996/917/809	0/0/0	0/0/0	1235/1108/1012	1438/1375/1300	0/0/0	0/0/0	1254/1118/987	1259/1155/1068
1 m3/h = 0.588 ft3/min	ft3/min	////	////	////	585.88/539.41/475.88	////	////	726.47/651.76/595.29	845.88/808.82/764.71	////	////	737.65/657.65/580.59	740.59/679.41/628.24
Outdoor side noise level(Hi)	dB(A)	59.5/57.5/55	60/58/56	65.5/0/0	68.5/63.5/60.5	66.5/63/61	68/0/0	66.5/64/61.5	66/65/64	66/60/57	67/64/61	68.5/67/64.5	68/65.5/63.5
Plug type		LCDI(5-15P)	LCDI(5-15P)	LCDI(5-15P)	LCDI(5-15P)	LCDI(5-15P)	LCDI(5-15P)	LCDI(6-15P)	LCDI(6-20P)	LCDI(5-15P)	LCDI(6-20P)	LCDI(6-30P)	LCDI(6-30P)
Power cord type		18#x3	18#x3	16#x3	14#x3	14#x3	14#x3	14#x3	12#x3	14#x3	12#x3	12#x3	12#x3
Power Cord Length	mm	1980	1980	1980	1980	1980	1980	1980	1980	2140	1980	1980	1980
Power Cord Length	ft	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	7.02	6.50	6.50	6.50
Control type		遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)	遥控式(Remote Control)
Operation temp	indoor(cooling/heating)	℃	17-32//	17-32//	17-32//	17-32//	17-35//	17-32//	17-32//	17-32/0-27	17-32/0-27	17-32/0-27	17-32/0-27
		℉(=℃*1.8+32)	///	///	///	///	///	///	///	///	///	///	///
	outdoor(cooling/heating)	℃	18-43//	18-43//	18-43//	18-43//	18-43//	18-43//	18-43//	18-43/-5-24	18-43/-5-24	18-43/-5-24	18-43/-5-24
		℉(=℃*1.8+32)	///	///	///	///	///	///	///	///	///	///	///
Dimension (W*D*H) TTW/ OPP/MSII/ HD(D*W*H))	mm	406x335x306	406x335x306	471x400x340	545x482x372	545x482x372	645x600x455	645x600x455	674x673x473	545x482x372	545x482x372	645x600x455	645x600x455
	in	15.98x13.19x12.05	15.98x13.19x12.05	18.54x15.75x13.39	21.46x18.98x14.65	21.46x18.98x14.65	25.39x23.62x17.91	25.39x23.62x17.91	26.54x26.50x18.62	21.46x18.98x14.65	21.46x18.98x14.65	25.39x23.62x17.91	25.39x23.62x17.91
Packing (W*D*H)	mm	452x388x374	452x388x374	560x455x380	586x557x430	586x557x430	760x660x495	760x660x495	750x794x520	586x557x430	586x557x430	760x660x495	760x660x495
	in	17.80x15.28x14.72	17.80x15.28x14.72	22.05x17.91x14.96	23.07x21.93x16.93	23.07x21.93x16.93	29.92x25.98x19.49	29.92x25.98x19.49	29.53x31.26x20.47	23.07x21.93x16.93	23.07x21.93x16.93	29.92x25.98x19.49	29.92x25.98x19.49
Net/Gross weight	kg	16.1/18.1	17.33/19.11	20.59/23.32	26.2/29.1	28.8/31.8	46/53.5	53.1/60.2	59.1/67.5	27.5/30.5	32.5/35.5	53.2/59.7	54.9/61.7
	lb	35.49/39.90	38.21/42.13	45.39/51.41	57.76/64.15	63.49/70.11	101.41/117.95	117.06/132.72	130.29/148.81	60.63/67.24	71.65/78.26	117.28/131.61	121.03/136.02
Loading quantity 20' /40' /40'HQ	Pieces	468/918/1050	468/918/1050	318/642/745	190/410/498	190/410/498	96/216/270	96/216/270	84/180/225	190/410/498	190/410/498	96/216/270	96/216/270
Window Opening	Width(Min/Max)(Inches)	in 23/36	23/36	23/36	23/36	23/36	28/40.5	28/40.5	31/42	26.8/36	26.8/36	28/40.5	28/40.5
	Height(Min)(Inches)	in 13	13	14	15.5	15.5	18.5	18.5	19.5	16.5	16.5	18.5	18.5

PTAC

High Efficiency And Energy Saving



PTAC



Information							
Sale model			SAK-09PTAC-HP/220V	SAK-12PTAC-HP/220V	SAK-15PTAC-HP/220V		
Power supply			V-Ph-Hz	220V, 1Ph, 60Hz	220V, 1Ph, 60Hz		
Cooling(Standard conditions)	Capacity	Btu/h	9300/9200	12000/11800	14700/14500		
	Input	W	820/810	1040/1020	1390/1370		
	Current	A	4.2/4.6	5.3/5.8	6.5/7.4		
	EER	Btu/h/W	11.4	10.5	10.6		
Heating(Heat pump)(Standard conditions)	Capacity	Btu/h	8100/7900	10800/10500	13500/13200		
	Input	W	720/690	890/850	1170/1120		
	Current	A	3.9/4.3	5.0/5.3	6.0/6.4		
	COP	W/W	3.40	3.2	3.20		
Starting current			A	45.9	45.9		
Compressor	Model			KSN82N13VDZB1	KSM100N11VEZ	KSM125N1UEZ	
	Type			ROTARY	ROTARY	ROTARY	
	Brand			GMCC	GMCC	GMCC	
	Capacity	W	2970/3015 ±3% W		3590/3620	3825±3%	
	Input	W	710/718 ±3% W		850/875±3%	1300±3%	
	Rated current	A	3.45/3.15 ±3% A		4.18/3.85±3%	6.35	
	Locked rotor Amp(LRA)	A	(at 1φ-240V-60Hz) ±10% 20 A		28.5±10%	(at 1φ-240V-60Hz)34.5 ±10% A	
	Thermal protector			/	UP-A2H/HPA-325H	HPA-430KH	
	Thermal protector position			INTERNAL	INTERNAL	INTERNAL	
	Capacitor	uF	20		35	60	
	Refrigerant oil/oil charge	ml	ESTER OIL VG68-270±10 ml		VG68 300±15	VG68-300±15 ml	
Indoor side fan motor(DC)	Model			ZKFP-25-8-157L	ZKFP-25-8-157L	ZKFP-25-8-157L	
	Speed(hi/mi/lo)	r/min	制冷930/800 制热1110/1020		制冷1110/930制热1110/1020	制冷1100/930;制热1100/1020	
	Insulation class			B	B	B	
	Waterproofing class			IP20	IP20	IP20	
Outdoor side fan motor	Model			YKT-37-4-203L	YKT-58-4-3L	YKT-58-4-3L	
	Input	W	71		87	87	
	Capacitor	uF	3		3	3	
	Speed(hi/mi/lo)	r/min	1365		1580	1580	
	Capacitor class			S3	S3	S3	
	Insulation class			B	B	B	
Evaporator	a.Number of rows			2	2	3	
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37		21x13.37	21x13.37	
	c.Fin spacing	mm	1.2		1.2	1.3	
	d.Fin type (code)			Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube		Φ7,Inner groove tube	Φ7,Inner groove tube	
	f.Coil length x height x width	mm	700x252x26.74		700x252x26.74	700x252x40.11	
	g.Number of circuits			2	2	4	
	Indoor side air flow(Hi/Mi/Lo)	m3/h	617/0/510		745/0/585	708/0/561	
1 m3/h = 0.588 ft3/min		ft3/min	362.94///300.00		438.24///344.12	416.47///330.00	
Indoor side noise level (Hi/Mi/Lo)			dB(A)	50/0/49.5		52/0/51.5	53/0/52.5
Outdoor side noise level(Hi)			dB(A)	64		67	67
Outdoor side noise level(Hi)	Refrigerant type		R32		R32	R32	
	kg		0.43		0.76	0.9	
	oz(1kg=35.274oz)		15.16782		26.80824	31.7466	
Design pressure(145psi=1MPa)(L/H)	psi		300/580		300/580	300/580	
Connection wiring			12#x3		12#x3	12#x3	
Plug type			LCDI(6-20P)		LCDI(6-20P)	LCDI(6-20P)	
Control type			电子式(Electronic Control)		电子式(Electronic Control)	电子式(Electronic Control)	
Operation temp	indoor(cooling/heating)	℃	17-32/0-27		17-32/0-27	17-32/0-27	
		°F(=℃*1.8+32)	///		///	///	
	outdoor(cooling/heating)	℃	18-43/-5-24		18-43/-5-24	18-43/-5-24	
		°F(=℃*1.8+32)	///		///	///	
Dimension(W*D*H)	mm		1067x532x406		1067x532x406	1067x532x406	
	in		42.01x20.94x15.98		42.01x20.94x15.98	42.01x20.94x15.98	
Packing (W*D*H)	mm		1130x625x490		1130x625x490	1130x625x490	
	in		44.49x24.61x19.29		44.49x24.61x19.29	44.49x24.61x19.29	
Net/Gross weight	kg		45/49		50/54	51.5/55.5	
	lb		99.21/108.03		110.23/119.05	113.54/122.36	
Loading quantity 20' /40' /40'HQ	Pieces		72/152/190		72/152/190	72/152/190	

