

Senville Model #			SENL-09CD/X	SENL-12CD/X	SENL-09CD/220/X	SENL-12CD/220/X	SENL-18CD/X	SENL-24CD/X	SENL-30CD/X
Indoor Model #			SENL-09CD/IX	SENL-12CD/IX	SENL-09CD/220/IX	SENL-12CD/220/IX	SENL-18CD/IX	SENL-24CD/IX	SENL-30CD/IX
Outdoor Model #			SENL-09CD/OX	SENL-12CD/OX	SENL-09CD/220/OX	SENL-12CD/220/OX	SENL-18CD/OX	SENL-24CD/OX	SENL-30CD/OX
Power Supply	Ph-V-Hz		115V, 1Ph, 60Hz	115V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V~60Hz, 1Ph
Cooling	Capacity (range)	Btu/h	9000 (3600-10300)	12000(3700-13000)	9000 (3600-10300)	12000 (3700-13000)	18000 (4500-18500)	24000 (6850-24500)	30000
	Input	W	782	1020	782	1065	1645	2500	2857
	Rated current	A	6.8	8.87	6.8	4.5	7.35	11.0	12.5
	EER	Btu/w	11.5	10.5	11.0	11.0	11.0	9.5	10.5
	SEER	Btu/w	19	19	18.0	19	19	17	18
Heating	Capacity (range)	Btu/h	10000 (3500-10900)	12000 (3600-13500)	9000 (3500-10900)	12000 (3600-13500)	18000 (4600-19000)	24000 (7200-25000)	30000
	Input	W	925	1026	925	1025	1700	2200	3110
	Rated current	A	8.1	8.93	8.1	4.3	7.4	9.6	13.5
	COP	W/W	3.11	3.43	3.11	3.43	3.1	3.2	2.83
	HSPF4	Btu/w	10	9.5	9.5	9.5	10.0	9.5	9.6
HSPF5	Btu/w	7.8	7.8	8.0	8	8.0	8.0	8.1	
MINIMUM CIRCUIT AMPACITY	A	16	15	10	15	15	20	20	
MAX.FUSE	A	20	20	15	15	20	25	30	
Compressor	Model		KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSN140D21UFZ	KTM240D57UMT	ATF250D22UMT
	Type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	W	3100	3100	3100	3100	4370	7715	25760
	Input	W	790	790	790	790	1135	2085	2070
	Rated current(RLA)	A	6	6	6	6	7.5	9.45	15
	Locked rotor Amp(LRA)	A	-	-	-	-	-	-	---
	Thermal protector		-	-	-	-	-	-	---
	Thermal protector position		-	-	-	-	-	-	---
	Capacitor	uF	-	-	-	-	-	-	ESTER OIL VG74/670
Refrigerant oil/oil charge	ml	ER OIL VG74 310 ±15	ER OIL VG74 310 ±15	ER OIL VG74 310 ±15	ER OIL VG74 310 ±15	VG74/440	VG74/670	ZKFP-58-8-1	
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	ZKFP-58-8-1	Welling
	Brand		Welling	Welling	Welling	Welling	Welling	Brand Ocean	58(Output)
	Input	W	35.2	35.2	50	50	36	116	0.5
	Output	W	20	20	20	20	30	60	---
	RLA	A	0.712	0.712	0.06	0.06	-	0.37	---
	LRA	A	-	-	-	-	-	-	---
	Winding Resistance	Ω	-	-	-	-	-	-	1200/1050/950
	Capacitor	uF	-	-	-	-	-	-	1350/1050/800
	Speed(Hi/Mi/Lo)	r/min	1050/850/600	1100/850/750	1240/850/650	1100/900/750	1100/800/750	1100/900/750	795/618/471
	Indoor air flow (Hi/Mi/Lo)	m3/h	420/310/220	500/360/240	525/483/318	550/480/360	765/668/446	1200/1000/765	52/44/35
Indoor air flow (Hi/Mi/Lo)	CFM	247/182/129	294/212/171	309/285/187	324/282/212	449/393/262	706/588/450	1259x282x362	
Indoor noise level (Hi/Mi/Lo)	dB(A)	38/32/25	38/30/28	38/32/25	38/32/24	43/35/30.5	48/42.5/34	49.57x11.10x14.25	
Indoor unit	Dimension(W*D*H)	mm	722x187x290	802x189x297	722x187x290	802x189x297	965x215x319	1080x226x335	1340x450x380
	Dimension(W*D*H)	inch	28.43x7.36x11.42	31.57x7.44x11.69	28.43x7.36x11.42	31.57x7.44x11.69	37.99x8.46x12.56	42.52x8.90x13.19	52.76x17.72x14.96
	Packing (W*D*H)	mm	790x270x375	875x285x375	790x270x375	875x285x375	1045x305x410	1155x415x320	19.6/25.2
	Packing (W*D*H)	inch	31.10x10.63x14.57	34.45x11.22x14.76	31.10x10.63x14.57	34.45x11.22x14.76	41.14x12.01x15.94	45.47x16.34x12.40	43.2/55.6
	Net/Gross weight	Kg	7.8/10.3	8.6/11.3	7.7/10.3	8.6/11.3	10.9/14.6	13.7/18	ZKFN-120-8-2
	Net/Gross weight	lbs.	17.2/22.7	18.96/24.91	17.0/22.7	18.96/24.91	24.03/32.19	30.2/39.68	Welling
	Model		ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-50-8-2-3	150
Outdoor fan motor	Input	W	58	58	58	58	58	50	0.6
	Output	W	34	34	34	34	34	115	---
	RLA	A	0.39	0.39	0.39	0.39	0.39	0.5	---
	LRA	A	-	-	-	-	-	-	---
	Winding Resistance	Ω	77.3	77.3	77.3	77.3	77.3	37.3	810
	Capacitor	uF	-	-	-	-	-	-	4300
	Speed	r/min	850/650	800/650	850/650	800/750/650	800/750/650	800/750/650	2530
Outdoor air flow	m3/h	2000	2000	2000	2000	2000	3100	62	
Outdoor air flow	CFM	1176.47	1176.47	1176.47	1176	1176	1823	946x410x810	
Outdoor noise level	dB(A)	52	55	52	55	57.5	58	37.24/16.14/31.89	
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	800x333x554	770x300x555	800x333x554	800x333x554	845x363x702	1090x500x875
	Dimension(W*D*H)	inch	30.31x11.81x21.85	31.50x13.11x21.81	30.31x11.81x21.85	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	42.91x19.69x34.45
	Packing (W*D*H)	mm	900x345x595	920x390x615	900x345x595	920x390x615	920x390x615	965x395x775	62.5/67
	Packing (W*D*H)	inch	35.43x13.58x23.03	36.22x15.35x24.21	35.43x13.58x23.03	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x30.12	137.79/147.71
	Net/Gross weight	Kg	30.3/32.6	31.9/34.6	30.3/32.6	30.4/33	36.2/38.9	47.7/50.9	R410A/2750g
	Net/Gross weight	lbs.	66.8/71.87	70.33/76.28	66.8/71.87	67.0/72.75	79.8/85.76	105.16/112.22	R410A/97.0
	Refrigerant type	g	R410A/850	R410A/840	R410A/850	R410A/840	R410A/1250	R410A/1780	25
Refrigerant type	oz	R410A/30	R410A/29.63	R410A/30	R410A/29.63	R410A/44.09	R410A/62.79	0.322	
Refrigerant precharge	ft	25	25	25	25	25	25	550/340 PSIG	
Additional charge for each ft	oz	0.161	0.161	0.161	0.161	0.161	0.322	Φ9.52/Φ15.9(3/8"/5/8")	
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340	550/340	50	
Refrigerant pipir	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	164
	Max. refrigerant pipe length	m	25	25	25	25	30	30	25
	Max. refrigerant pipe length	ft	82	82	82	82	98	98	82
	Max. difference in level	m	10	10	10	10	20	20	16AWG*4 Stranded, unshielded
	Max. difference in level	ft	33	33	33	33	66	66	Remote Control
Connection wiring		16-4 Strand/Unshield	16-4 Strand/Unshield	16-4 Strand/Unshield	16-4 Strand/Unshield	16-4 Strand/Unshield	16-4 Strand/Unshield	16-4 Strand/Unshield	17~32/0~30
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	62~90/32~86
Room temperature	Indoor(cooling/ heating)	℃	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	0~50/-15~30
	Indoor(cooling/ heating)	℉	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	32~122/5~86
	Outdoor(cooling/heating)	℃	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30
	Outdoor(cooling/heating)	℉	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86
Application area (cooling standard)	sq.ft	100-450	450-700	100-450	450-700	750-1200	1250-1500	1500-1750	
Qty/per 20' /40' /40'HQ		110/228/248	84/178/214	110/228/248	84/178/214	74/160/186	60/126/142	37/78/92	