

Senville Model #		SENA/09HF/Z	SENA/12HF/Z	SENA/18HF/Z	SENA/24HF/Z	SENA/36HF/Z	
Indoor Model#		SENA/09HF/I/Z	SENA/12HF/I/Z	SENA/18HF/I/Z	SENA/24HF/I/Z	SENA/36HF/I/Z	
Outdoor Model#		SENA/09HF/OZ	SENA/12HF/OZ	SENA/18HF/OZ	SENA/24HF/OZ	SENA/36HF/OZ	
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	9000	12000	17000	24000	36000
	Input	W	620	960	1360	1920	4185
	Rated current	A	2.7	4.2	5.95	8.4	18.5
	EER	Btu/w	14.5	13	12.5	13	8.6
	SEER	Btu/w	25	22.5	20	20.5	16
Heating	Capacity	Btu/h	10900	11800	18000	24000	36000
	Input	W	835	975	1685	2500	4135
	Rated current	A	3.6	4.2	7.4	10.9	18.3
	COP	W/W	3.83	3.55	3.13	2.81	2.55
	HSPF4	Btu/w	11.2	12	10.3	11.5	8.5
HSPF5	Btu/w	9	9.9	8.8	9.6	7	
MINIMUM CIRCUIT AMPACITY		A	9	9	18	20	25
MAX.FUSE		A	15	15	25	30	35
Compressor	Model		ATM115D43UFZ2	ATM115D43UFZ2	ATF235D22UMT	ATF235D22UMT	ATF250D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h	11594	11430	24345	24345	25931.2
	Input	W	858	870	1970	1970	2085
	Rated current(RLA)	A	5.25	5.65	12.3	14	17
	Locked rotor Amp(LRA)	A	---	---	---	---	---
	Thermal protector		---	---	---	---	---
	Thermal protector position		---	---	---	---	---
Refrigerant oil/oil charge	ml	ESTER OIL VG74 / 500	ESTER OIL VG74 / 500	POE(VG74)/670	POE(VG74)/670	ESTER OIL VG74/670	
Indoor fan	Model		ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-58-8-1	ZKFP-60-8-1	ZKFP-60-8-1
	Brand		Welling	Welling	Welling	Welling	Welling
	Input	W	50	50	58(Output)	72	72
	RLA	A	0.06	0.06	0.13	0.3	0.5
	LRA	A	---	---	---	---	---
	Winding Resistance	Ω	---	---	---	---	---
	Capacitor	uF	---	---	---	---	---
	Speed(Hi/Mi/Lo)	r/min	1170/900/700	1170/900/700	1100 / 900 / 700	1200/1100/900	1200/1100/900
	Indoor air flow (Hi/Mi/Lo)	m3/h	710/550/420	710/550/420	950/750/600	1350/1100/850	1150/1000/800
Indoor air flow (Hi/Mi/Lo)	CFM	418/324/247	418/324/247	599/411/353	794/647/500	677/589/471	
Indoor noise level (Hi/Mi/Lo)	dB(A)	42/33/24.5	43/36/24	45.5/36/26.5	47.5 /44/36.5	48.5 /44/38	
Indoor unit	Dimension(W*D*H)	mm	835x198x280	835x198x280	990x218x315	1186x258x343	1186x258x343
	Dimension(W*D*H)	inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39	46.69x10.16x13.39
	Packing (W*D*H)	mm	910x270x355	910x270x355	1065x300x400	1265x340x420	1265x340x420
	Packing (W*D*H)	inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x13.39x16.53	49.80x13.39x16.53
	Net/Gross weight	Kg	9 / 11.5	9 / 12.1	12.2/15.8	18.2/22.8	18.2/22.8
	Net/Gross weight	lbs.	19.84/25.35	19.84/26.68	26.89/34.83	40.12/50.26	40.12/50.26
Outdoor fan	Model		ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2
	Brand		Welling	Welling	Welling	Welling	Welling
	Input	W	63	63	115/81/44	150	150
	RLA	A	0.38	0.38	0.42	0.5	0.6
	LRA	A	---	---	---	---	---
	Winding Resistance	Ω	---	---	---	---	---
	Capacitor	uF	---	---	---	---	---
	Speed	r/min	---	---	---	---	---
	Outdoor air flow	m3/h	1900	2000	2300	4000	3618.87
Outdoor air flow	CFM	1120	1180	1355	2355	2130	
Outdoor noise level	dB(A)	55.5	56	57.5	60	59	
Outdoor unit	Dimension(W*D*H)	mm	800x333x554	800x333x554	845x363x702	946x410x810	946x410x810
	Dimension(W*D*H)	inch	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89	37.24/16.14/31.89
	Packing (W*D*H)	mm	920x390x615	920x390x615	965x395x755	1090x500x875	1090x500x875
	Packing (W*D*H)	inch	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45
	Net/Gross weight	Kg	40 / 42.5	40 / 42.5	48.7/52.2	61.5/67.5	66.0/71.8
	Net/Gross weight	lbs.	88.2/93.7	88.2/93.7	107.4/115.1	135.58/148.81	145.5/158.3
Refrigerant type	g	R410A/1500	R410A/1500	R410A/1950	R410A/2600	R410A/3400	
Refrigerant type	oz	R410A/52.9	R410A/52.9	R410A/68.8	R410A/91.7	R410A/120	
Refrigerant precharge	ft	25	25	25	25	25	
Additional charge for each ft	oz	0.161	0.161	0.161	0.322	0.322	
Design pressure	PSIG	550/340PSIG	550/340PSIG	550/340PSIG	550/340PSIG	550/340 PSIG	
Refrigerant pipe	Liquid side/ Gas side	mm(inch)	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")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length	m	25	25	30	50	65
	Max. refrigerant pipe length	ft	82	82	98	164	213
	Max. difference in level	m	10	10	20	25	30
Max. difference in level	ft	33	33	66	82	98	
Connection wiring			16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling/ heating)	℃	17~32/0~30	17~32/0~30	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	62~90/32~86	62~90/32~86
	Outdoor(cooling/heating)-option2	℃	-30~50/-30~30	-30~50/-30~30	-30~50/-30~30	-30~50/-30~30	-15~50/-15~30
	Outdoor(cooling/heating)-option3	℉	-22~122/-22~86	-22~122/-22~86	-22~122/-22~86	-22~122/-22~86	5~122/5~86
Application area (cooling standard)	m2	12-17.6	16-23.4	24-35	32-47	48-70.3	
Application area (cooling standard)	sq.ft	129-189	172-252	258-376	344-505	517-757	
Qty' per 20' /40' /40'HQ	set	92/195/216	92/195/216	70/145/160	45/95/105	45/95/105	