



Kanartic®

Model		9K	12K	18K	24K	
		ZMSB-09HV-USHHC	ZMSB-12HV-USHHC	ZMSB-18HV-USHHC	ZMSB-24HV-USHHC	
Power supply	V-Ph-Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	
Power supply	Voltage range	V	187-253	187-253	187-253	
Cooling (Standard conditions)	Capacity (range)	Btu/hr	9000(3700~13300)	12000(3700~13300)	18000(4650~26600)	23000(4650~26600)
	Input	W	569(200~1160)	923(200~1150)	1385(360~1860)	1840(484~2540)
	Current	A	2.5(0.9~5.1)	2.5(0.86~5)	8.9(2.5~9)	8.25(2.1~11)
	EER	Btu/hr/W	15.8	13	13	12.5
	SEER	Btu/hr/W	26.4	23.1	22	22.3
Heating (Standard conditions)	Capacity (range)	Btu/hr	12000(5100~14300)	12000(5100~14300)	18000(6000~23000)	26000(9550~27000)
	Input	W	902(350~1400)	978(350~1400)	1575(470~2170)	2540(810~3090)
	Current	A	4.0(1.6~6.5)	4.25(1.5~6.0)	9.2(2~9.5)	11.38(3.5~13.4)
	COP	W/W	3.9	3.6	3.35	3
	HSPF4	Btu/hr/W	11.6	10.5	10.6	10.3
	HSPF5	Btu/hr/W	8.5	8	7.9	7.7
Cooling at 5 F (-15°C)	Rated capacity	Btu/hr	11000	12000	19500	23000
Cooling at 109 F (43°C)	Rated capacity	Btu/hr	/	/	/	/
Cooling(B2)	Rated capacity	Btu/hr	9500	13000	18200	24000
	EER	Btu/hr/W	19.51	15.86	16.3	15.53
Heating at 17F(-8.33°C)	Rated capacity	Btu/hr	12800	13400	21000	25100
	COP	W/W	2.03	1.96	1.93	1.81
Heating at -4F(-20°C)	Rated capacity	Btu/hr	8800	9800	14800	18000
	COP	W/W	1.69	1.71	1.82	/
Heating at -13F(-25°C)	Rated capacity	Btu/hr	7500	7400	12300	14000
	COP	W/W	1.48	1.37	1.41	/
Heating at -22F(-30°C)	Rated capacity	Btu/hr	5400	6000	9600	9900
	COP	W/W	1.12	1.23	1.43	1.02
Heating(H32)17F(-8.33°C)	Rated capacity	Btu/hr	9300	10300	11100	18900
	COP	W/W	2.5	2.55	2.8	2.38
Heating(H42) 5F(-15°C)	Rated capacity	Btu/hr	11000	11000	17200	23000
	COP	W/W	1.85	1.88	1.89	1.8
	capability ratio	%	92.5	90	95.56	89.23
Moisture removal	L/h	0.4	1.45	1.35	2.43	
MINIMUM CIRCUIT AMPACITY(Indoor)	A	3	3	3	3	
MAX_FUSE(Indoor)	A	15	15	15	15	
MINIMUM CIRCUIT AMPACITY(Outdoor)	A	15	15	20	25	
MAX_FUSE(Outdoor)	A	15	15	25	35	
Compressor	Model		KTN110D42UFZ	KTN110D42UFZ	KTM240D43UKT	KTM240D43UKT
	Type		ROTARY	ROTARY	Twin-ROTARY	Twin-ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	W	3465	3465	7600	7600
	Input	W	885	885	2045	2045
	Rated current(RLA)	A	8.8	8.8	14.25	17.1
	Locked rotor Amp(LRA)	A	/	/	/	/
	Thermal protector		/	/	/	/
	Thermal protector position		NA	NA	NA	NA
	Capacitor	uF	/	/	/	/
Refrigerant oil/oil charge	ml	VG74/350	VG74/350	ESTER OIL VG74 620	ESTER OIL VG74 620	
Indoor fan motor	Model		ZKFP-13-8-4	ZKFP-13-8-4	ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Qty		1	1	1	1
	Input	W	/	/	58	58
	Output	W	13	13	58	58
	RLA	A	0.15	0.38	0.25	0.38
Speed(Hi/Mi/Lo)	r/min	1150/990/750	1250/950/750	1120/950/700	1200/1080/600	
Indoor air flow (Turbo)Hi/Mi/Lo	m3/h	580/495/330/260	580/495/330/260	1293/902/780/650	1293/1022/780/650	
CFM		341.18/291.18/194.12/152.94	341.18/291.18/194.12/152.94	760.59/530.59/458.82/382.35	760.59/601.18/458.82/382.35	
Indoor noise level (Hi/Mi/Lo)	dB(A)	40/35/23.5	41.5/36/24	46/40/25	46.5/44/35	
Indoor unit	Dimension(W*D*H)	mm	802x200x295	802x200x295	1082x234x337	1082x234x337
	Dimension(W*D*H)	inch	31.57x7.87x11.61	31.57x7.87x11.61	42.60x9.21x13.27	42.60x9.21x13.27
	Packing (W*D*H)	mm	875x285x380	875x285x380	1155x415x315	1155x415x315
	Packing (W*D*H)	inch	34.45x11.22x14.96	34.45x11.22x14.96	45.47x16.34x12.40	45.47x16.34x12.40
	Net/Gross weight	kg	8.6/11	8.5/11	13.4/17	13.6/17.3
	Net/Gross weight	lb	18.96/24.25	18.74/24.25	29.54/37.48	29.98/38.14
Outdoor fan motor	Model		ZKFN-34-10-1	ZKFN-34-10-1	ZKFN-80-8-3	ZKFN-120-8-2
	Qty		1	1	1	1
	Input	W	/	/	/	150
	Output	W	34.0	34.0	80.0	120.0
	RLA	A	0.42	0.36	0.76	0.5
Speed	r/min	850/680/450	850/680/450	810/720	950/800/500	
Outdoor air flow	m3/h	2250	2250	3000	3800	
Outdoor air flow	CFM	1323.53	1323.53	1764.71	2235.29	
Outdoor noise level	dB(A)	55.5	56	58	62.5	
Outdoor unit	Throttle type		EXV	EXV	EXV	EXV+Throttle valve
	Dimension(W*D*H)	mm	805x330x554	805x330x554	890x342x673	946x410x810
	Dimension(W*D*H)	inch	31.69x12.99x21.81	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89
	Packing (W*D*H)	mm	915x370x615	915x370x615	995x398x740	1090x500x885
	Packing (W*D*H)	inch	36.02x14.57x24.21	36.02x14.57x24.21	39.17x15.67x29.13	42.91x19.69x34.84
	Net/Gross weight	kg	33.6/36.4	33.4/36	45.8/49	61/65.5
	Net/Gross weight	lb	74.07/80.25	73.63/79.37	100.97/108.03	134.48/144.40
Refrigerant type		R410A	R410A	R410A	R410A	
Refrigerant charge	kg	1.18	1.18	1.85	2.6	
	oz	41.62	41.62	65.26	91.71	
Additional charge per metre	g/m	15	15	30	30	
Additional charge for each ft	oz/ft	0.16	0.16	0.13	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	mm	6.35/9.52	6.35/12.7	6.35/12.7	9.52/15.9
		inch	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"
	Max. refrigerant pipe length	m	25	25	30	50
	Max. refrigerant pipe length	ft	82.02	82.02	98.42	164.04
	Max. difference in level	m	10	10	20	25
Max. difference in level	ft	32.81	32.81	65.62	82.02	
Connection wiring		14AWG*4	14AWG*4	14AWG*4	14AWG*4	
Thermostat type		Wifi + (Remote Control)	Wifi + (Remote Control)	Wifi + (Remote Control)	Wifi + (Remote Control)	
Room temperature	Indoor(cooling)	°C	16/ 32	16/ 32	16/ 32	16/ 32
		°F	60/ 90	60/ 90	60/ 90	60/ 90
	Indoor(heating)	°C	0/ 30	0/ 30	0/ 30	0/ 30
		°F	32/ 86	32/ 86	32/ 86	32/ 86
	Outdoor(cooling)	°C	-30/ 50	-30/ 50	-30/ 50	-30/ 50
		°F	-22~122	-22~122	-22~122	-22~122
Outdoor(heating)	°C	-30/ 24	-30/ 24	-30/ 24	-30/ 24	
	°F	-22/ 75	-22/ 75	-22/ 75	-22/ 75	
Qty per 20' /40' /40HQ		90/190/222	90/190/222	64/134/156	44/90/113	
Refrigerant precharge	(ft)	25	25	25	25	
	(m)	7.5	7.5	7.5	7.5	