



Energy Star Single Zone Ductless Mini Split Specifications Sheet



Blueridge Model Number	Kit	BM09Y23	BM12Y23	BM18Y23	BM24Y23
Indoor	Indoor	BM09Y23WM	BM12Y22WM	BM18Y21WM	BM24Y21WM
Outdoor	Outdoor	BM09Y23C	BM12Y22C	BM18Y21C	BM24Y21C

Capacity and Ratings					
Cooling	Capacity (Btu/Hr)	9000	12000	18000	24000
	Input (W)	640	923	1384	1920
	Rated current (A)	2.9	4.05	6.1	8.4
	EER (Btu/w)	14	13	13	12.5
	SEER (Btu/w)	22.8	21.5	20.8	20.5
Heating	Capacity (Btu/Hr)	9800	12000	18000	25000
	Input (W)	930	1085	1570	2315
	Rated current (A)	4.2	4.72	6.82	10.1
	COP (W/W)	3.09	3.24	3.36	3.17
	HSPF4 (Btu/w)	10.5	9.8	10	10
	HSPF5 (Btu/w)	8.6	7.7	8	8.3

Indoor Temperature Set Point Range		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Indoor cooling	°C	17~32	17~32	17~32	17~32
Indoor heating	°C	0~30	0~30	0~30	0~30
Indoor cooling	°F	62~90	62~90	62~90	62~90
Indoor heating	°F	32~86	32~86	32~86	32~86
Outdoor Ambient Temperature Range		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Outdoor cooling	°C	-25~50	-25~50	-25~50	-25~50
Outdoor heating	°C	-25~30	-25~30	-25~30	-25~30
Outdoor cooling	°F	-13~122	-13~122	-13~122	-13~122
Outdoor heating	°F	-13~86	-13~86	-13~86	-13~86

Air Flow and Sound Levels		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Indoor air flow (Hi/Mi/Lo)	m3/h	450/348/240	520/360/250	950/620/520	1050/800/550
Indoor air flow (Hi/Mi/Lo)	CFM	265/205/141	306/212/147	559/365/306	618/471/324
Indoor noise level (Hi/Mi/Lo)	dB(A)	36.5/30/25	36.5/30/25	43/38/32	47.5/42/33
Outdoor air flow	m3/h	1800	1900	2500	4000
Outdoor air flow	CFM	1060	1120	1470	2355
Outdoor noise level	dB(A)	55.5	57.5	61	61

Dimensions Indoor		BM09Y23	BM12Y23	BM18Y23	BM24Y23
WxDxH	mm	802x189x297	802x189x297	1080x226x335	1080x226x335
WxDxH	inch	31.57x7.44x11.6 9	31.57x7.44x11.6 9	42.52x8.90x13.1 9	42.52x8.90x13.1 9
Shipping WxDxH	mm	875x285x375	875x285x375	1155x415x315	1155x415x315
ShippingWxDxH	inch	34.45x11.22x14. 76	34.45x11.22x14. 76	45.47x16.34x12. 40	45.47x16.34x12. 40
Net/Ship Wt.	kg	8.2/10	8.2/10	13.2/16.8	13.2/16.8
Net/Ship Wt.	lbs	18.1/22.0	18.1/22.0	29.1/37.0	29.1/37.0
Dimensions Outdoor					
WxDxH	mm	770x300x555	800x333x554	845x363x702	946x410x810
WxDxH	inch	30.31x11.81x21. 85	31.50x13.11x21. 81	33.27x14.29x27. 64	37.24/16.14/31.8 9
Shipping WxDxH	mm	900x345x585	920x390x615	965x395x755	1090x500x875
ShippingWxDxH	inch	35.43x13.58x23. 03	36.22x15.35x24. 21	38.00x15.55x29. 72	42.91x19.69x34. 45
Net/Ship Wt.	kg	29/31.5	37/40	45.8/49.1	62/66.8
Net/Ship Wt.	lbs	63.9/69.4	81.6/88.2	101.0/108.2	136.69/147.27

Refrigerant and Piping		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Refrigerant Type		R410a	R410a	R410a	R410a
Refrigerant precharge (grams)	g	1000g	1151g	1950g	2350g
Refrigerant precharge (oz)	oz	38.8	40.6	68.8	82.9
Refrigerant precharge (per foot of lineset)	ft	25	25	25	25
Additional charge (per foot of lineset)	oz	0.161	0.161	0.161	0.322
Design pressure	PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Refrigerant piping	mm	Φ6.35/Φ9.52	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.9
Refrigerant piping	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	82	98	164
Max. difference in level	m	10	10	20	25
Max. difference in level	ft	33	33	66	82

Electrical		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Power supply		208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph
MINIMUM CIRCUIT AMPACITY		10	12	15	18
MAX.FUSE		15	15	20	25
Connection wiring		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

Components		BM09Y23	BM12Y23	BM18Y23	BM24Y23
Compressor	Model	ASN98D22UFZ	ASM98D32UFZ	ASM135D23UFZ	ATF235D22UMT
	Type	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	GMCC	GMCC	GMCC	GMCC
	Capacity Btu/hr	10014	11157	13836	24344
	Input Watts	748	800	1035	1970
	Rated current(RLA) Amps	5.5	6.8	10	12
	Refrigerant oil/oil charge (ml)	ESTER OIL VG74-370	ESTER OIL VG74/370	ESTER OIL VG74/450	ESTER OIL VG74/670
Indoor fan motor	Model	ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-58-8-1	ZKFN-120-8-2
	Brand	Welling	Welling	Welling	Welling
	Input Watts	22	22	58(Output)	150
	RLA	0.25	0.25	0.4	0.45
	Speed(Hi/Mi/L o)	1080/850/700	1080/850/650	1000/800/700	1100/900/700
Outdoor fan motor	Model	ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-50-8-2	ZKFN-120-8-2
	Brand	Welling	Welling	Welling	Welling
	Input Watts	63	63	50(Output)	150
	Rated current(RLA) Amps	0.4	0.4	0.6	0.6