



Multi-Zone Spec Sheet



Blueridge Condenser Model	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Capacity and Ratings	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Cooling	17000 Btu/h	27000 Btu/h	36000 Btu/h	48000 Btu/h
EER	12.5	12.0	10.9	11.6
SEER	21.3	22.0	22.5	21.5
Heating at 47F	18000 Btu/h	28000 Btu/h	36000 Btu/h	48000 Btu/h
COP	3.7	3.7	3.1	3.4
HSPF4	10	9.8	10.3	10.4
HSPF5	8.6	8.0	9.0	8.6
heating at 17F (rated cap.)	11800 Btu/h	16800 Btu/h	25400 Btu/h	30800 Btu/h
heating at 5 F (max cap.)	14200 Btu/h	20900 Btu/h	28800 Btu/h	35800 Btu/h

Operating Temperature Range	BM18M21C	BM27M22C	BM36M23C	BM48M22C
cooling °C	-25~50	-25~50	-25~50	-25~50
cooling °F	-13~122	-13~122	-13~122	-13~122
heating °C	-25~30	-25~30	-25~30	-25~30
heating °F	-13~86	-13~86	-13~86	-13~86

Air Flow and sound levels	BM18M21C	BM27M22C	BM36M23C	BM48M22C
dB(A)	62.4	63.4	62.3	64
Outdoor CFM	1390	2130	2130	4500
Outdoor m3/h	2362	3619	3619	7646

Outdoor Unit Dimensions	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Dimension(W*D*H) mm	845x363x702	946x410x810	946x410x810	952x415x1333
Dimension(W*D*H) in.	33.27x14.29x27.64	37.24x16.14x31.8 9	37.24x16.14x31.8 9	37.48x16.34x52.4 8
Packing (W*D*H) mm	965x395x755	1090x500x875	1090x500x875	1095x495x1480
Packing (W*D*H) in.	37.99x15.55x29.7 2	42.91x19.69x34.4 5	42.91x19.69x34.4 5	43.11x19.49x58.2 7
Net/Gross weight Kg	48/52	68/73	71/76	101.5/115.7
Net/Gross weight lbs.	105.82/114.64	149.91/160.94	156.53/167.55	223.77/255.07

Refrigerant and Piping	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Refrigerant type	R410A/70.5	R410A/98.8	R410A/105.8	R410A/162.3
Refrigerant precharge	50	75	100	125
Additional charge for each ft	0.161	0.161	0.161	0.32
Design pressure	550/340	550/340	550/340	550/340
Liquid Side (mm)	2 X 6.35	3 X 6.35	4 x 6.35	5 x 6.35
Liquid Side (in)	2 X 1/4"	3 X 1/4"	4 X 1/4"	5 X 1/4"
Gas Side (mm)	2 X 9.52	3 X 9.52	3 X 9.52, 1 X 12.7	3 X 9.52, 1 X 12.7
Gas Side (in)	2 X 3/8"	3 X 3/8"	3 X 3/8", 1 X 1/2"	3 X 3/8", 2 X 1/2"
Max. length all zones (m)	40	60	80	80
Max. length all zones (ft)	131	197	262	262
Max. length per zone (m)	25	30	35	35
Max. length per zone (ft)	82	98	115	115
Max. height diff. outdoor-indoor (m)	15	15	15	15
Max. height diff. outdoor - indoor (ft)	49	49	49	49
Max. height diff. indoor-indoor (m)	10	10	10	10
Max. height diff. indoor - indoor (ft)	33	33	33	33

Electrical	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Power supply (V-Hz-Ph)	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph
Min. Ampacity	18.0	25.0	30.0	35.0
Max. Breaker Size	25.0	35.0	45.0	50.0

Components	BM18M21C	BM27M22C	BM36M23C	BM48M22C
Compressor Model	ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU
Compressor Type	ROTARY	ROTARY	ROTARY	Twin-ROTARY
Compressor Brand	GMCC	GMCC	GMCC	GMCC
Compressor Capacity (Btu/Hr)	15388	24345	32380	38214
Compressor Input - Watts	1170	1970	2600	3040
Compressor Rated current(RLA)	10	20	22	21
Refrigerant oil/oil charge (ml)	VG74/500	POE(VG74)/670	POE(VG74)/1000	Ester Oil VG74/1400
Outdoor Fan Model	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22
Outdoor Fan Brand	Shibaura	Welling	Welling	Welling
Outdoor Fan Input Watts	115	150	150	126
Outdoor Fan RLA	0.74	0.9	1.3	0.39
Outdoor Fan Speed - RPM	150-850	150-1000	150-1000	150-870

Blueridge Indoor Wall-Mounted Air Handler Model			BM09M22WM	BM12M22WM	BM18M21WM	BM24M21WM
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	W	22	22	58(Output)	150
	RLA	A	0.25	0.25	0.4	0.45
	LRA	A	----	----	----	----
	Winding Resistance	Ω	----	----	----	----
	Capacitor	uF	----	----	----	----
	Speed(Hi/Mi/Lo)	r/min	1080/850/700	1080/850/650	1000/800/700	1100/900/700
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
Indoor unit	Dimension(W*D*H)	mm	802x189x297	802x189x297	1080x226x335	1080x226x335
	Dimension(W*D*H)	inch	31.57x7.44x11.69	31.57x7.44x11.69	42.52x8.90x13.19	42.52x8.90x13.19
	Packing (W*D*H)	mm	875x285x375	875x285x375	1155x415x315	1155x415x315

	Packing (W*D*H)	inch	34.45x11.22x1 4.76	34.45x11.22x1 4.76	45.47x16.34x1 2.40	45.47x16.34x1 2.40
	Net/Gross weight	Kg	8.2/10	8.2/10	13.2/16.8	13.2/16.8
	Net/Gross weight	lbs.	18.1/22.0	18.1/22.0	29.1/37.0	29.1/37.0
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
Operation temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Indoor(cooling/ heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86
	Outdoor(cooling/heating)	°C	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30
	Outdoor(cooling/heating)	°F	-13~122/-13~86	-13~122/-13~86	-13~122/-13~86	-13~122/-13~86
Application area (cooling standard)		m2	12-17.6	16-23.4	23.3-34.2	30.6-44.9
Application area (cooling standard)		sq.ft	129-189	172-252	251-368	330-484

Blueridge Indoor Ceiling Cassette Air Handler Model			BM09MCC	BM12MCC	BM18MCC
Fan Speed (L,M,H)	RPM		600/ 520/ 460	680/ 580/ 500	730/ 630/ 570
Indoor Air Flow	CFM		374/ 301/ 257	379/ 309/ 261	560/ 483/ 415
Indoor Noise Level	H,M,L	dB.	41/39/37	41/38/35	46/43/41
Indoor Unit Dimensions	WxDxH	mm	570x 570x 260	570x 570x 260	570x 570x 260
	WxDxH	inch	22.44x 22.44x 10.24	22.44x 22.44x 10.24	22.44x 22.44x 10.24
	Packaged WxDxH	mm	655x 655x 290	655x 655x 290	655x 655x 290
	Packaged WxDxH	inch	25.79 x25.79x 11.42	25.79 x25.79x 11.42	25.79 x25.79x 11.42
	Net/Gross Weight	Kg	14.5/ 17.25	15.85/ 18.6	15.85/ 18.6
	Net/Gross Weight	Lbs.	32/ 38	35/ 41	35/ 41
Connection Wiring			14g. / 4 strand	14g. / 4 strand	14g. / 4 strand
Thermostat Type			Remote Control	Remote Control	Remote Control
Operating Temp	Indoor Cooling/Heating	°C	17~30	17~30	17~30
	Indoor Cooling/Heating	°F	62~86	62~86	62~86
Refrigerant Piping Connections	liquid/ gas		1/4", 3/8"	1/4", 1/2"	1/4", 1/2"