



## Multi-Zone Hyper Heat Spec Sheet



Blueridge Condenser Model	BMHH18M22C	BMHH27M22C	BMHH36M22C
<b>Capacity and Ratings</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
Cooling	19000 Btu/h	28000 Btu/h	36000 Btu/h
EER	12.5	13	13.5
SEER	21.5	22	21.5
COP	3.4	3.5	3.8
HSPF4	9.8	10.4	10.5
HSPF5	8.5	9	8.5
Heating at 47F	20000 Btu/h	28000 Btu/h	36000 Btu/h

<b>Operating Temperature Range</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
cooling C	-30~50	-30~50	-30~50
cooling F	-22~122	-22~122	-22~122
heating C	-30~30	-30~30	-30~30
heating F	-22~86	-22~86	-22~86
<b>Air Flow and Sound Levels</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
dB(A)	63.4	62.3	64
Outdoor CFM	2129.41	2147.06	4500.00
Outdoor m3/h	3620	3650	7650
<b>Outdoor Unit Dimensions</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
Dimension (W*D*H) mm	946 x 410 x 810	946 x 410 x 810	952 x 415 x 1333
Dimension (W*D*H) in.	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	37.48 x 16.34 x 52.48
Packing (W*D*H) mm	1090 x 500 x 865	1090 x 500 x 865	1095 x 495 x 1480
Packing (W*D*H) in.	42.91 x 19.69 x 34.06	42.91 x 19.69 x 34.06	43.11 x 19.49 x 58.27
Net/ Gross weight Kg	68/73	71/76	101.5/ 115.7
Net/Gross weight lbs.	149.91/ 160.94	156.53/ 167.55	223.77/ 255.07
<b>Refrigerant and Piping</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
Refrigerant type	R410a	R410a	R410a
Refrigerant precharge	49	74	98
Additional Charge for each ft.	0.161	0.161	0.161
Design Pressure	550/ 340 PSIG	550/ 340 PSIG	550/ 340 PSIG
Liquid Side (mm)	2) x 6.35	3) x 6.35	4) x 6.35
<b>Liquid Side (in.)</b>	<b>2) 1/4"</b>	<b>3) 1/4"</b>	<b>4) 1/4"</b>
Gas Side (mm)	2) 9.52	3) 9.52	3) 9.52, 1) 12.7
<b>Gas Side (in.)</b>	<b>2) 3/8"</b>	<b>3) 3/8"</b>	<b>3) 3/8", 1) 1/2"</b>
Max Length all zones (m)	40	60	80
<b>Max Length all zones (ft)</b>	<b>131</b>	<b>197</b>	<b>262</b>
Max Length per zone (m)	25	30	35
<b>Max Length per zone (ft)</b>	<b>82</b>	<b>98</b>	<b>115</b>
Max Height diff. outdoor - indoor (m)	15	15	15
<b>Max Height diff. outdoor - indoor ft)</b>	<b>49</b>	<b>49</b>	<b>49</b>

<b>Electrical</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
Power Supply (V-Hz-Ph)	208-230V, 60hz, 1Ph	208-230V, 60hz, 1Ph	208-230V, 60hz, 1Ph
Min. Ampacity	25	30	35
Max. Breaker Size	35	45	50
<b>Components</b>	<b>BMHH18M22C</b>	<b>BMHH27M22C</b>	<b>BMHH36M22C</b>
Compressor Model	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU
Compressor Type	ROTARY	ROTARY	Twin-ROTARY
Compressor Brand	GMCC	GMCC	GMCC
Compressor Capacity (Btu/ Hr)	24345	32380	38214
Compressor Input - Watts	1970	2600	3040
Compressor Rated Current (RLA)	20	22	21
Regrigerant oil/ oil charge (ml)	VG74/670	VG74/1000	VG74/1400
Outdoor Fan Model	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-2
Outdoor Fan Brand	1	1	2
Outdoor Fan Input Watts	150.0	150.0	126.0
Outdoor Fan RLA	1.39	1.39	1.178
Outdoor Fan Speed - RPM	900/750/600	900/750/600	800/700/600

<b>Blueridge Indoor Wall-Mounted Air Handler Model</b>			<b>BM09M22WM</b>	<b>BM12M22WM</b>	<b>BM18M21WM</b>	<b>BM24M21WM</b>
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)		<b>CFM</b>	<b>265/205/141</b>	<b>306/212/147</b>	<b>559/365/306</b>	<b>618/471/324</b>
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
	<b>Dimension(W*D*H)</b>	<b>inch</b>	<b>31.57x7.44x11.69</b>	<b>31.57x7.44x11.69</b>	<b>42.52x8.90x13.19</b>	<b>42.52x8.90x13.19</b>
	Packing (W*D*H)	mm	875x285x375	875x285x375	1155x415x315	1155x415x315

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

<b>Blueridge Indoor Ceiling Cassette Air Handler Model</b>			<b>BM09MCC</b>	<b>BM12MCC</b>	<b>BM18MCC</b>
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
	<b>WxDxH</b>	<b>inch</b>	<b>22.44x 22.44x 10.24</b>	<b>22.44x 22.44x 10.24</b>	<b>22.44x 22.44x 10.24</b>
	Packaged WxDxH	mm	655x 655x 290	655x 655x 290	655x 655x 290
	<b>Packaged WxDxH</b>	<b>inch</b>	<b>25.79 x25.79x 11.42</b>	<b>25.79 x25.79x 11.42</b>	<b>25.79 x25.79x 11.42</b>
	Net/Gross Weight	Kg	14.5/ 17.25	15.85/ 18.6	15.85/ 18.6
	<b>Net/Gross Weight</b>	<b>Lbs.</b>	<b>32/ 38</b>	<b>35/ 41</b>	<b>35/ 41</b>
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"