



DIY Single Zone Ductless Mini Split Specifications Sheet



Blueridge Model Number	Kit	BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
Indoor	Indoor	BM12YDIY22WM	BM18YDIY20WM	BM24YDIY20WM	BM36YDIY16WM
Outdoor	Outdoor	BM12YDIY22C	BM18YDIY20C	BM24YDIY20C	BM36YDIY16C

Capacity and Ratings					
Cooling	Capacity (Btu/Hr)	12000	18000	23000	34500
	Input (W)	943	1440	1840	4205
	Rated current (A)	8.2	6.26	8	18.3
	EER (Btu/w)	12.7	12.5	12.5	8.2
	SEER (Btu/w)	22	20	20	16
Heating	Capacity (Btu/Hr)	12000	18000	25000	36000
	Input (W)	1099	1440	2460	3910
	Rated current (A)	8.5	6.26	10.7	17
	COP (W/W)	3.2	3.66	2.98	2.7
	HSPF4 (Btu/w)	10.0	10	10	8.9
	HSPF5 (Btu/w)	8.1	8	8.3	7.5

Operating Temperature Range		BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
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	62.6~89.6	62.6~89.6	62.6~89.6	62.6~89.6
Indoor heating	°F	32~86	32~86	32~86	32~86
Outdoor cooling	°C	-15~43	-15~50	-15~50	-15~50
Outdoor heating	°C	-25~30	-20~30	-20~30	-20~30
Outdoor cooling	°F	5~109.4	5~122	5~122	5~122
Outdoor heating	°F	-13~86	-4~86	-4~86	-4~86

Air Flow and Sound Levels		BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
Indoor air flow (Hi/Mi/Lo)	m3/h	520/360/250	867/651/544	970/750/570	1400/1000/700
Indoor air flow (Hi/Mi/Lo)	CFM	305.88/211.76/147.06	510.00/382.94/320.00	570.59/441.18/335.29	823.53/588.24/411.76
Indoor noise level (Hi/Mi/Lo)	dB(A)	38/31.5/23.5	45/37.5/31	47/42/33.5	52/45/35
Outdoor air flow	m3/h	2000	2500	3800	3800
Outdoor air flow	CFM	1176.47	1470.59	2235.29	2235.29
Outdoor noise level	dB(A)	55	58.5	60	60.5

Dimensions Indoor		BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
WxDxH	mm	802x189x297	1080x226x335	1080x226x335	1259x282x362
WxDxH	inch	31.57x7.44x11.69	42.52x8.90x13.19	42.52x8.90x13.19	49.57x11.10x14.25
Shipping WxDxH	mm	955x445x360	1245x495x400	1325x455x425	1440x540x470
ShippingWxDxH	inch	37.60x17.52x14.17	49.02x19.49x15.75	52.17x17.91x16.73	56.69x21.26x18.50
Net/Ship Wt.	kg	8.9/17.1	13.7/24.5	14.1/24.8	18.6/32.2
Net/Ship Wt.	lbs	19.62/37.70	30.20/54.01	31.08/54.67	41.01/70.99
Dimensions Outdoor					
WxDxH	mm	800x333x554	845x363x702	946x410x810	946x410x810
WxDxH	inch	31.50x13.11x21.81	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89
Shipping WxDxH	mm	940x440x695	985x440x800	1090x505x940	1090x505x940
ShippingWxDxH	inch	37.01x17.32x27.36	38.78x17.32x31.50	42.91x19.88x37.01	42.91x19.88x37.01
Net/Ship Wt.	kg	35.7/46.4	44.8/55.5	57.9/72.4	68.2/82.3
Net/Ship Wt.	lbs	78.70/102.29	98.77/122.36	127.65/159.61	150.35/181.44

Refrigerant and Piping		BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
Refrigerant Type		R410a	R410a	R410a	R410a
Refrigerant precharge (grams)	g	1099.961g	1950.447g	2350.175g	3399.1078g
Refrigerant precharge (oz)	oz	38.8	68.8	82.9	119.9
Refrigerant precharge (per foot of lineset)	ft	30	20	20	20
Additional charge (per foot of lineset)	oz	0.32	0.21	0.21	0.21
Design pressure	PSIG	550/340	550/340	550/340	550/340
Refrigerant piping	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.9	Φ9.52/Φ15.9
Refrigerant piping	inch	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"
Max. refrigerant pipe length	m	25	7.5	7.5	7.5
Max. refrigerant pipe length	ft	82.02	98.42	98.42	164.04
Max. difference in level	m	30	20	20	25
Max. difference in level	ft	98.42	65.62	65.62	82.02

Electrical		BM12DIY22	BM18DIY20	BM24DIY20	BM36DIY16
Power supply		115V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph
MINIMUM CIRCUIT AMPACITY		15	15	18	25
MAX.FUSE		20	20	25	30
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