



Standard Single Zone Ductless Mini-Split Specifications Sheet



Model Number	Kit	BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
	Indoor	BM09Y17WM	BM12Y18WM	BM18Y18WM	BM24Y16WM	BM30Y18WM	BM36Y16WM
	Outdoor	BM09Y17C	BM12Y18C	BM18Y18C	BM24Y16C	BM30Y18C	BM36Y16C

Capacity and Ratings		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Cooling	Capacity (Btu/Hr)	9000	12000	18000	24000	30000	36000
	Input (W)	900	1090	1635	2525	2857	4235
	Rated current (A)	4	4.8	7.2	11.2	12.5	18.5
	EER (Btu/w)	11.5	11	11	9.5	10.5	8.5
	SEER (Btu/w)	17	17.5	17.7	16	18	16
Heating	Capacity (Btu/Hr)	9800	11800	18000	25000	30000	36000
	Input (W)	900	1035	1935	2425	3110	3835
	Rated current (A)	4	4.5	8.5	10.7	13.5	16.7
	COP (W/W)	3.19	3.34	2.73	3.02	2.83	2.75
	HSPF4 (Btu/w)	9	9	9.8	9	9.6	10
	HSPF5 (Btu/w)	7.3	7.5	7.5	7.2	8.1	8.4

Operating Temperature Range		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Indoor(cooling/ heating)	°C	17~32/ 0~30	17~32/ 0~30	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	62~90/ 32~86	62~90/ 32~86
Outdoor(cooling/heating)	°C	-15~50/ -15~30	-15~50/ -15~30	-15~50/ -15~30	-15~50/ -15~30	-15~50/ -15~30	-15~50/ -15~30
Outdoor(cooling/heating)	°F	5~122/ 5~86	5~122/ 5~86	5~122/ 5~86	5~122/ 5~86	5~122/ 5~86	5~122/ 5~86

Operating Temperature Range		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Indoor cooling	°C	17~32	17~32	17~32	17~32	17~32	17~32
Indoor heating	°C	0~30	0~30	0~30	0~30	0~30	0~30
Indoor cooling	°F	62~90	62~90	62~90	62~90	62~90	62~90
Indoor heating	°F	32~86	32~86	32~86	32~86	32~86	32~86
Outdoor cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
Outdoor heating	°C	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30
Outdoor cooling	°F	5~122	5~122	5~122	5~122	5~122	5~122
Outdoor heating	°F	5~86	5~86	5~86	5~86	5~86	5~86

Air Flow and Sound Levels		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Indoor air flow (Hi/Mi/Lo)	m3/h	420/310/210	500/350/240	660/450/380	1000/780/600	1350/1050/800	1450/1100/800
Indoor air flow (Hi/Mi/Lo)	CFM	247/182/124	294/206/141	388/265/224	589/459/353	795/618/471	853/647/471
Indoor noise level (Hi/Mi/Lo)	dB(A)	36/-/23	40.5/-/25	45/-/29	45.5/-/33	52/44/35	52/44/36
Outdoor air flow	m3/h	1800	1900	2500	2700	4300	5000
Outdoor air flow	CFM	1060	1120	1470	1590	2530	2943
Outdoor noise level	dB(A)	57	57	57.5	59	62	63

Dimensions (Indoor)		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
WxDxH	m	722x187x290	802x189x297	965x215x319	1080x226x335	1259x282x362	1259x282x362
WxDxH	inc h	28.43x7.36x11.42	31.57x7.44x11.69	37.99x8.46x12.56	42.52x8.90x13.19	49.57x11.10x14.25	49.57x11.10x14.25
Ship WxDxH	m	790x270x370	875x285x375	1045X305X405	1155x415x315	1340x450x380	1340x450x380
Ship WxDxH	inc h	31.10x10.63x14.57	34.45x11.22x14.76	41.14x12.01x15.94	45.47x16.34x12.40	52.76x17.72x14.96	52.76x17.72x14.96
Net/sh ip Wt	kg	7.5/9.5	8.5/10.2	11.8/15.5	13.2/16.8	19.6/25.2	19.6/25.2
Net/Sh ip Wt	lbs	16.5/20.9	18.7/22.5	26.0/34.2	29.1/37.0	43.2/55.6	43.2/55.6
Dimensions (Outdoor)							
WxDxH	m	770x300x555	770x300x555	800x333x554	845x363x702	946x410x810	946x410x810
WxDxH	inc h	30.31x11.81x21.85	30.31x11.81x21.85	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89	37.24/16.14/31.89
Ship WxDxH	m	900x345x585	900x345x585	920x390x615	965x395x755	1090x500x875	1090x500x875
Ship WxDxH	inc h	35.43x13.58x23.03	35.43x13.58x23.03	36.22x15.35x24.21	38.00x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45
Net/sh ip Wt	kg	29/31.5	29.5/32	36.5/39.5	47.7/51.0	62.5/67	65/69.5
Net/Sh ip Wt	lbs	63.9/69.4	65.0/70.5	80.5/87.1	105.16/112.44	137.79/147.71	143.3/153.22

Refrigerant and Piping		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Refrigerant Type		R410a	R410a	R410a	R410a	R410a	R410a
Refrigerant precharge (grams)	grams	799g	961g	1500g	1800g	2750g	3399g
Refrigerant precharge (oz)	oz	28.2	33.9	52.9	63.5	97	119.9
Refrigerant precharge (per foot of lineset)	feet	25	25	25	25	25	25
Additional charge (per foot of lineset)	oz	0.161	0.161	0.161	0.322	0.322	0.322
Design pressure	PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Size at condenser (mm)	mm	6.35, 9.52	6.35, 12.7	6.35, 12.7	9.52, 15.9	9.52, 15.9	9.52, 15.9
Size at condenser (inch)	inch	1/4", 3/8"	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"
Max. refrigerant pipe length	length	25	25	30	30	50	65
Max. refrigerant pipe length	length	82	82	98	98	164	213
Max. difference in level	level	10	10	20	20	25	30
Max. difference in level	level	33	33	66	66	82	98

Electrical		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Power supply	Volts/Freq./Phase	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph
MINIMUM CIRCUIT AMPACITY	Amps	15	15	15	18	20	25
MAX.FUSE	Amps	15	15	20	25	30	35
Connection wiring		16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	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	Remote Control	Remote Control

Compo nents		BM09Y17	BM12Y18	BM18Y18	BM24Y16	BM30Y18	BM36Y16
Compress or	Model	ASN98D22 UFZ	ASN98D22 UFZ	ASM135D23 UFZ	ATF235D22U MT	ATF250D22U MT	ATF250D22U MT
	Type	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity Btu/hr	10014	10014	13836	24344	25760	25760
	Input Watts	748	748	1035	1970	2070	2070
	Rated current(RLA) Amps	5.5	6.8	10.5	12	15	17
	Refrigerant oil/oil charge (ml)	ESTER OIL VG74-370	ESTER OIL VG74-370	VG74/450	ESTER OIL VG74/670	ESTER OIL VG74/670	ESTER OIL VG74/670
Indoor fan motor	Model	ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-30-8-3	ZKFP-58-8-1	ZKFP-58-8-1	ZKFP-58-8-1
	Brand	Welling	Welling	Welling	Welling	Welling	Welling
	Input Watts	22	22	36	58(Output)	58(Output)	58(Output)
	RLA	0.2	0.2	0.3	0.4	0.5	0.5
	Speed(Hi/Mi/ Lo)	1050/850/6 50	1050/850/6 50	1100/800/70 0	1100/900/70 0	1200/1050/9 50	1200/1050/7 50
Outdoor fan motor	Model	YKT-32-6-3L	YKT-32-6-3L	YKT-48-6-206	YKT-63-6- 200L	ZKFN-120-8-2	ZKFN-120-8-2
	Brand	Welling	Welling	Welling	Welling	Welling	Welling
	Input Watts	77.5/70	77.5/70	103.8/86.5	136/130	150	150
	Rated current(RLA) Amps	0.4	0.4	0.6	0.6	0.6	0.6
	Locked Rotor Amps (LRA) Amps	0.46	0.46	0.612	0.9	----	----
	Winding Resistance Ohms	213/156	213/156	152/142	88.5/138	----	----
	Capacitor uF	2.5UF/450V	2.5UF/450V	2.5UF/450V	2.5UF/450V	----	----
	Speed RPM	860 / -- /740	860 / -- /740	880 / --/690	930/-/830	810	810