



Standard Single Zone 19 SEER Ductless Mini-Split Specifications Sheet



Model Number	Kit	BM09Y18	BM12Y19	BM18Y19	BM24Y17
	Indoor	BM09Y18WM	BM12Y19WM	BM18Y19WM	BM24Y17WM
	Outdoor	BM09Y18C	BM12Y19C	BM18Y19C	BM24Y17C

Capacity and Ratings		BM09Y18	BM12Y19	BM18Y19	BM24Y17
Cooling	Capacity (Btu/Hr)	9000 (3600-10300)	12000 (3700-13000)	18000 (4500-18500)	24000 (6850-24500)
	Input (W)	782	1065	1645	2500
	Rated current (A)	6.8	4.5	7.35	11.0
	EER (Btu/w)	11.0	11.0	11.0	9.5
	SEER (Btu/w)	18.0	19	19	17
Heating	Capacity (Btu/Hr)	9000 (3500-10900)	12000 (3600-13500)	18000 (4600-19000)	24000 (7200-25000)
	Input (W)	925	1025	1700	2200
	Rated current (A)	8.1	4.3	7.4	9.6
	COP (W/W)	3.11	3.43	3.1	3.2
	HSPF4 (Btu/w)	9.5	9.5	10.0	9.5
	HSPF5 (Btu/w)	8.0	8	8.0	8.0

Operating Temperature Range		BM09Y18	BM12Y19	BM18Y19	BM24Y17
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 cooling	°C	-15~50	-15~50	-15~50	-15~50
Outdoor heating	°C	-15~30	-15~30	-15~30	-15~30
Outdoor cooling	°F	5~122	5~122	5~122	5~122
Outdoor heating	°F	5~86	5~86	5~86	5~86

Air Flow and Sound Levels		BM09Y18	BM12Y19	BM18Y19	BM24Y17
Indoor air flow (Hi/Mi/Lo)	m3/h	525/483/318	550/480/360	765/668/446	1200/1000/765
Indoor air flow (Hi/Mi/Lo)	CFM	309/285/187	324/282/212	449/97/393/262	706/588/450
Indoor noise level (Hi/Mi/Lo)	dB(A)	38/32/25	38/32/24	43/35/30.5	48/42.5/34
Outdoor air flow	m3/h	2000	2000	2000	3100
Outdoor air flow	CFM	1176.47	1176	1176	1823
Outdoor noise level	dB(A)	52	55	57.5	58

Dimensions (Indoor)		BM09Y18	BM12Y19	BM18Y19	BM24Y17
WxDxH	mm	722x187x290	802x189x297	965x215x319	1080x226x335
WxDxH	inch	28.43x7.36x11.42	31.57x7.44x11.69	37.99x8.46x12.56	42.52x8.90x13.19
Ship WxDxH	mm	790x270x370	875x285x375	1045X305X405	1155x415x315
Ship WxDxH	inch	31.10x10.63x14.57	34.45x11.22x14.76	41.14x12.01x15.94	45.47x16.34x12.40
Net/ship Wt	kg	7.7/10.3	8.6/11.3	10.9/14.6	13.7/18
Net/Ship Wt	lbs	17.0/22.7	18.96/24.91	24.03/32.19	30.2/39.68
Dimensions (Outdoor)					
WxDxH	mm	770x300x555	800x333x554	800x333x554	845x363x702
WxDxH	inch	30.31x11.81x21.85	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64
Ship WxDxH	mm	900x345x585	920x390x615	920x390x615	965x395x755
Ship WxDxH	inch	35.43x13.58x23.03	36.22x15.35x24.21	36.22x15.35x24.21	38.00x15.55x29.72
Net/ship Wt	kg	30.3/32.6	30.4/33	36.2/38.9	47.7/50.9
Net/Ship Wt	lbs	66.8/71.87	67.0/72.75	79.8/85.76	105.16/112.22

Refrigerant and Piping		BM09Y18	BM12Y19	BM18Y19	BM24Y17
Refrigerant Type		R410a	R410a	R410a	R410a
Refrigerant precharge (grams)	grams	799g	961g	1500g	1800g
Refrigerant precharge (oz)	oz	28.2	33.9	52.9	63.5
Refrigerant precharge (per foot of lineset)	feet	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
Size at condenser (mm)	mm	6.35, 9.52	6.35, 12.7	6.35, 12.7	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"
Max. refrigerant pipe length	length	25	25	30	30
Max. refrigerant pipe length	length	82	82	98	98
Max. difference in level	level	10	10	20	20
Max. difference in level	level	33	33	66	66

Electrical		BM09Y18	BM12Y19	BM18Y19	BM24Y17
Power supply	Volts/Freq./Phase	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz ,1Ph
MINIMUM CIRCUIT AMPACITY	Amps	10	15	15	20
MAX.FUSE	Amps	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		BM09Y18	BM12Y19	BM18Y19	BM24Y17
Compressor	Model	KSK103D33UEZ3	KSK103D33UEZ3	KSN140D21UFZ	KTM240D57UMT
	Type	Rotary	Rotary	Rotary	Rotary
	Brand	GMCC	GMCC	GMCC	GMCC
	Capacity Btu/hr	3100	3100	4370	7715
	Input Watts	790	790	1135	2085
	Rated current(RLA) Amps	6	6	7.5	9.45
	Refrigerant oil/oil charge (ml)	ESTER OIL VG74-370	ESTER OIL VG74-370	VG74/450	ESTER OIL VG74/670
Indoor fan motor	Model	ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-30-8-3	ZKFP-58-8-1
	Brand	Welling	Welling	Welling	Brand Ocean
	Input Watts	50	50	36	116
	RLA	20	20	30	60
	Speed(Hi/Mi/Lo)	1240/850/650	1100/900/750	1100/800/750	1100/900/750
Outdoor fan motor	Model	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-50-8-2-3
	Output Watts	34	34	34	115
	Input Watts	58	58	58	50
	Rated current(RLA) Amps	0.39	0.39	0.39	0.5
	Winding Resistance Ohms	77.3	77.3	77.3	37.3