



Hyper Heat Single Zone Ductless Mini-Split Specifications Sheet



Model	Kit	BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
	Indoor	BMHH09Y25WM	BM12YHH23WM	BM18YHH20WM	BM24YHH21W
	Outdoor	BMHH09Y25C	BM12YHH23C	BM18YHH20C	BM24YHH21C

Capacity and Ratings		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
Cooling	Capacity (Btu/Hr)	9000	12000	17000	24000
	Input (W)	620	960	1360	1920
	Rated current (A)	2.7	4.2	5.95	8.4
	EER (Btu/w)	14.5	13	12.5	13
	SEER (Btu/w)	25	22.5	20	20.5
Heating	Capacity (Btu/Hr)	10900	11800	18000	24000
	Input (W)	835	975	1685	2500
	Rated current (A)	3.6	4.2	7.4	10.9
	COP (W/W)	3.83	3.55	3.13	2.81
	HSPF4 (Btu/w)	11.2	12	10.3	11.5
	HSPF5 (Btu/w)	9	9.9	8.8	9.6

Operating Temperature Range		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
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	-30~50	-30~50	-30~50	-30~50
Outdoor heating	°C	-30~30	-30~30	-30~30	-30~30
Outdoor cooling	°F	-22~122	-22~122	-22~122	-22~122
Outdoor heating	°F	-22~86	-22~86	-22~86	-22~86

Air Flow and Sound Levels		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
Indoor air flow (Hi/Mi/Lo)	m3/h	710/550/420	710/550/420	950/750/600	1350/1100/850
Indoor air flow (Hi/Mi/Lo)	CFM	418/324/247	418/324/247	599/411/353	794/647/500
Indoor noise level (Hi/Mi/Lo)	dB(A)	42/33/24.5	43/36/24	45.5/36/26.5	47.5 /44/36.5
Outdoor air flow	m3/h	1900	2000	2300	4000
Outdoor air flow	CFM	1120	1180	1355	2355
Outdoor noise level	dB(A)	55.5	56	57.5	60

Dimensions Indoor Unit		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
WxDxH	mm	835x198x280	835x198x280	990x218x315	1186x258x343
WxDxH	inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39
Ship WxDxH	mm	910x270x355	910x270x355	1065x300x400	1265x340x420
Ship WxDxH	inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x13.39x16.53
Net/Ship Wt.	kg	9 / 11.5	9 / 12.1	12.2/15.8	18.2/22.8
Net/Ship Wt.	lbs	19.84/25.35	19.84/26.68	26.89/34.83	40.12/50.26
Dimensions Outdoor Unit					
WxDxH	mm	800x333x554	800x333x554	845x363x702	946x410x810
WxDxH	inch	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89
Ship WxDxH	mm	920x390x615	920x390x615	965x395x755	1090x500x875
Ship WxDxH	inch	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x29.72	42.91x19.69x34.45
Net/Ship Wt.	kg	40 / 42.5	40 / 42.5	48.7/52.2	61.5/67.5
Net/Ship Wt.	lbs	88.2/93.7	88.2/93.7	107.4/115.1	135.58/148.81

Refrigerant and Piping		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
Refrigerant type	g	R410A/1500	R410A/1500	R410A/1950	R410A/2600
Refrigerant type	oz	R410A/52.9	R410A/52.9	R410A/68.8	R410A/91.7
Refrigerant precharge	ft	25	25	25	25
Additional charge for each ft	oz	0.161	0.161	0.161	0.322
Design pressure	PSIG	550/340PSIG	550/340PSIG	550/340PSIG	550/340PSIG
Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
Max. refrigerant pipe length	m	25	25	30	50
Max. refrigerant pipe length	ft	82	82	98	164
Max. difference in level	m	10	10	20	25
Max. difference in level	ft	33	33	66	82

Electrical		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
Power supply	Ph-V-Hz	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph
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
MINIMUM CIRCUIT AMPACITY	A	9	9	18	20
MAX.FUSE	A	15	15	25	30

Components		BM09YHH25	BM12YHH23	BM18YHH20	BM24YHH21
Compressor	Model	ATM115D43U FZ2	ATM115D43U FZ2	ATF235D22U MT	ATF235D22U MT
	Type	ROTARY	ROTARY	ROTARY	ROTARY
	Brand	GMCC	GMCC	GMCC	GMCC
	Capacity Btu/hr	11594	11430	24345	24345
	Input Watts	858	870	1970	1970
	Rated current(RLA) Amps	5.25	5.65	12.3	14
	Refrigerant oil/oil charge (ml)	ESTER OIL VG74 / 500	ESTER OIL VG74 / 500	POE(VG74)/67 0	POE(VG74)/67 0
Indoor fan motor	Model	ZKFP-20-8-6-7	ZKFP-20-8-6-7	ZKFP-58-8-1	ZKFP-60-8-1
	Brand	Welling	Welling	Welling	Welling
	Input Watts	50	50	58(Output)	72
	RLA	0.06	0.06	0.13	0.3
	Speed(Hi/Mi /Lo)	1170/900/700	1170/900/700	1100 / 900 / 700	1200/1100/90 0
Outdoor fan motor	Model	ZKFN-40-8-1L	ZKFN-40-8-1L	ZKFN-50-8-2	ZKFN-120-8-2
	Brand	Welling	Welling	Welling	Welling
	Input Watts	63	63	115/81/44	150
	Rated current(RLA) Amps	0.38	0.38	0.42	0.5