



Submittal Data Sheet

Code	22022010012796
Indoor unit code	22022011013660
Outdoor unit code	22022016013779
Model	MSABA-09HFRDN1-BQ0W
Indoor unit model	MSABA-09HFRN1-BS0W
Outdoor unit model	MOBA30-09HFN1-BS0W



PERFORMANCE DATA

Power supply	Ph-V-Hz	115V, 1Ph, 60Hz
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Cooling

Capacity	Btu/h	9000
Input	W	782
Rated current	A	6.8
EER	Btu/w	11.5
SEER	Btu/w	19.0

Heating at 47

Capacity	Btu/h	10000
Input	W	925
Rated current	A	8.1
COP	W/W	3.11
HSPF4		10.0
HSPF5		7.8

Electrical

MINIMUM CIRCUIT AMPACITY	A	16
MAX. FUSE	A	20
Connection wiring		16*4 AWG

Compressor

Model		KSK103D33UEZ3
Type		Rotary
Brand		GMCC
Capacity	Btu/h	10577.2
Input	W	790
Rated current(RLA)	A	5.6
Locked rotor Amp(LRA)	A	-
Thermal protector		-
Thermal protector position		-
Refrigerant oil/oil charge	ml	ESTER OIL VG74 310 ±15 ml

SYSTEM DATA

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/30
Refrigerant precharge	ft	25
Additional charge per ft.	oz	0.161
Liquid side/Gas side	mm(in)	Φ6.35/Φ9.52(1/4"/3/8")
Max. refrigerant pipe length	ft	82
Max. difference in level	ft.	33

INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFP-20-8-113
Brand		Welling
Input		35.2
RLA	A	0.712
LRA	A	-
Winding Resistance	Ω	-
Capacitor	uF	-
Speed(Hi/Mi/Lo)	r/min	1050/850/600

Air flow & Noise level

Indoor air flow (Hi/Lo)	CFM	247/182/129
Indoor noise level (Hi/Lo)	dB(A)	38/32/25

Indoor unit

Dimension(W*D*H)	inch	28.43x7.36x11.42
Packing (W*D*H)	inch	31.10x10.63x14.57
Net/Gross weight	lbs.	17.2/22.7

OUTDOOR UNIT DATA

Outdoor fan motor		
Model		ZKFN-34-8-1-3
Brand		Weiling
Input		58
RLA	A	0.39
LRA	A	-
Winding Resistance	Ω	77.3
Capacitor	uF	-
Speed	r/min	850/650

Air flow & Noise level

Outdoor air flow	CFM	1176.47
Outdoor noise level	dB(A)	52

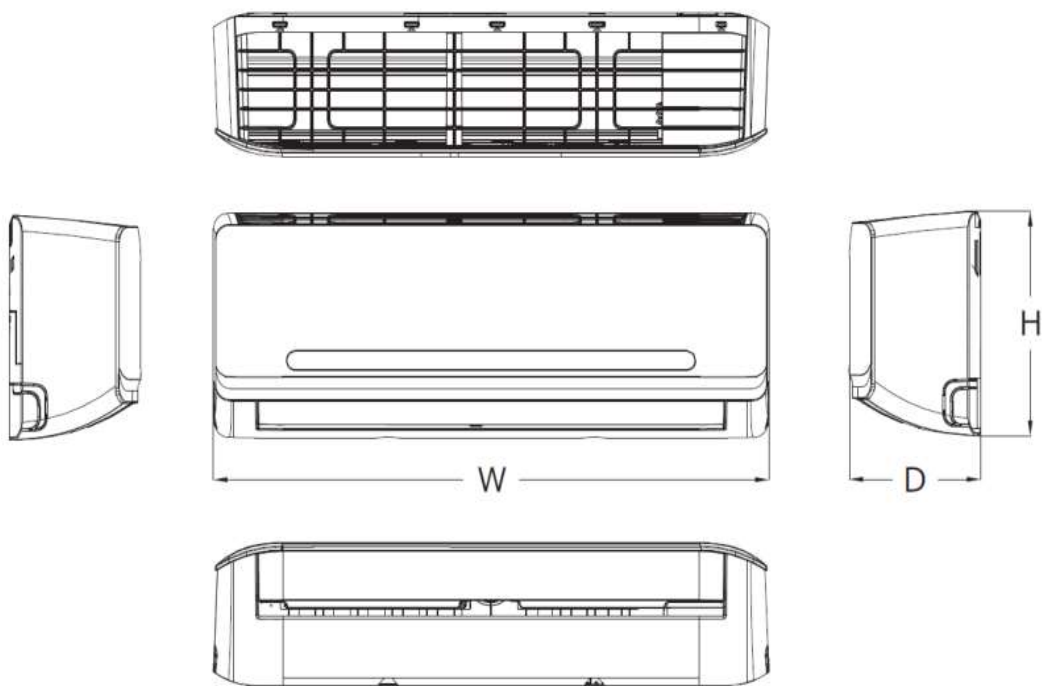
Outdoor unit

Dimension(W*D*H)	inch	30.31x11.81x21.85
Packing(W*D*H)	inch	35.43x13.58x23.03
Net/Gross weight	lbs.	66.8/71.87

Operation temperature

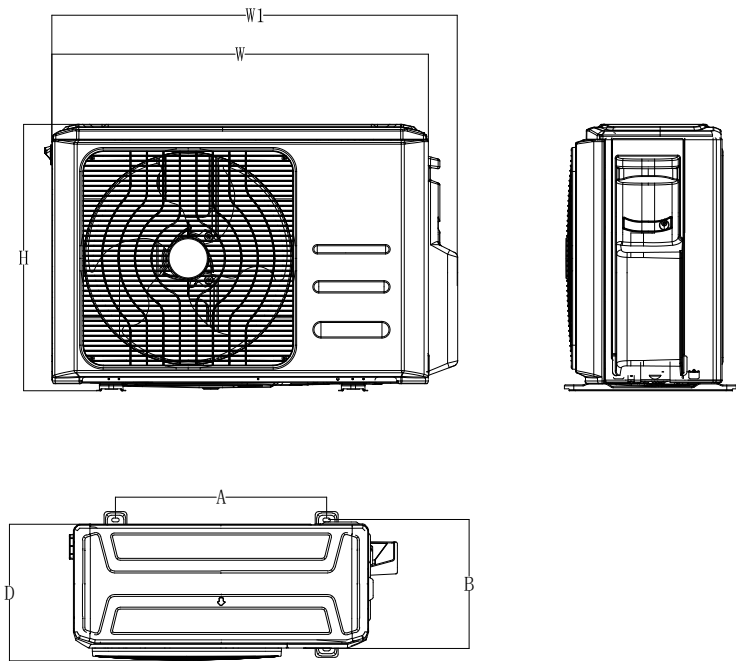
Indoor(cooling/heating)	Deg. F	62 ~ 90/32 ~ 86
Outdoor(cooling/heating)	Deg. F	5 ~ 122/5 ~ 86
Application area	sq.ft	129-189

INDOOR UNIT



Model	W (inch)	D (inch)	H (inch)
MSABA-09HRFN1-BSOW	28.43	7.36	11.42

OUTDOOR UNIT



Model	W (inch)	D (inch)	H (inch)	W1 (inch)	A (inch)	B (inch)
MOBA30-09HFN1-BSOW	30.31	11.81	21.85	33.07	19.17	11.73