



BORN TO  
**BREAK**  
THE LIMITS



Model			MSAGBU-09HRFN8-QRD1GW(GA)	MSAGBU-12HRFN8-QRD1GW(GA)
Power supply		Ph-V-Hz	220-240V, 1Ph, 50Hz	220-240V, 1Ph, 50Hz
Rated Cooling	Capacity	Btu/h	9000 ( 3500~11000)	12000 ( 4700~14700)
Cooling Power input		W	659 ( 80~1100)	1004 ( 120~1650)
Cooling Current		A	2.86 ( 0.35~4.78)	4.36 ( 0.5~7.2)
Rated Heating	Capacity	Btu/h	10000 ( 2800~11500)	13000 ( 3650~14950)
Heating Power input		W	674 ( 70~990)	969 ( 110~1480)
Heating Current		A	2.93 ( 0.32~4.32)	4.21 ( 0.5~6.4)
Seasonal Cooling	Pdesignc	kW	2.6	3.3
	SEER	W/W	8.5	8.5
	Energy Efficiency Class		<b>A+++</b>	<b>A+++</b>
Heating(Average )	Pdesignh	kW	2.6	2.6
	SCOP	W/W	4.2	4.3
	Energy Efficiency Class		<b>A+</b>	<b>A+</b>
	Tbiv	°C	-7	-7
Heating(Warmer )	Pdesignh	kW	2.5	2.6
	SCOP	W/W	5.4	5.8
	Energy Efficiency Class		<b>A+++</b>	<b>A+++</b>
	Tbiv	°C	2	2
Indoor fan motor	Model		ZKFP-13-8-4	ZKFP-13-8-4
	Speed(Hi/Mi/Lo)	r/min	1050/450	1100/900/750
Indoor air flow (Hi/Mi/Lo)		m3/h	510/360/300	520/370/310
Indoor noise level (Hi/Mi/Lo)		dB(A)	37/32/22	38/33/22
Indoor sound power level		dB(A)	55	60
Indoor unit	Dimension(W*D*H)	mm	835x295x208	835x208x295
	Net/Gross weight	Kg	8.7/11.5	8.7/11.3
Outdoor fan motor	Model		ZKFN-34-10-1	ZKFN-34-10-1
	Speed	r/min	800/450	800/450
Outdoor air flow		m3/h	2150	2200
Outdoor sound pressure level		dB(A)	55.5	55.0
Outdoor sound power level		dB(A)	60	64
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	765x303x555
	Net/Gross weight	Kg	26.2/28.8	26.4/28.8
Refrigerant	Type		R32	R32
	GWP		675	675
Design pressure		MPa	4.3/1.7	4.3/1.7
Connection wiring			1.5x5//	1.5x5//
Room temperature	Indoor(cooling/ heating)	°C	16 ~ 32/0 ~ 30	16 ~ 32/0 ~ 30
	Outdoor(cooling/heating)	°C	-15 ~ 50/-15 ~ 24	-15 ~ 50/-15 ~ 24
Application area (Cooling Standard)		m2	12 ~ 18	16 ~ 23

