



AI Rosense

SAMSUNG



**Intelligent Cooling.
No Cold Draft**



Samsung Smart Inverter AR8500 WindFree™ air conditioner



- Wi-Fi enabled - through the Samsung SmartThings App, control and monitor your aircon unit remotely, anytime, anywhere.
- AI Auto Cooling - the power of artificial intelligence automatically optimizes the various modes by analyzing the room conditions and your usage patterns.
- Tri Care Filter - with zeolite coating to eliminate allergens, viruses and bacteria.
- WindFree™ Cooling - uses 77% less energy than Fast Cooling to save costs.
- Powerful & farther airflow - more airflow up to 15m.



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The AR8500 Windfree™ model is the front line of defense against poor indoor air quality. Rest assured that your family breathes clean air as it comes with a Tri-care filter system with triple care to offer cleaner air. This includes 3 Layers that include a high-density filter to extract dust and fibres and a zeolite coating to capture fine dust, viruses, bacteria, and allergens. With its AI Auto cooling function, it provides convenience by analysing your preferred mode & room conditions and automatically switching to the most appropriate operating mode. Smart Wi-Fi enabled and voice control with SmartThings App, allowing remote control and monitoring of your aircon unit, anytime and anywhere.



Model Code		AR09BSEAMWK/FA	AR12BSEAMWK/FA	AR18BSEAMWK/FA	AR24BSEAMWK/FA
Capacity	Capacity (Cooling, Btu/hr)	8530 Btu/hr	11260 Btu/hr	17061 Btu/hr	22008 Btu/hr
	Capacity (Heating, Btu/hr)	10919 Btu/hr	12966 Btu/hr	18766 Btu/hr	22008 Btu/hr
	Capacity (Cooling, Min - Max, Btu/hr)	2388 - 11260 Btu/hr	2320 - 14331 Btu/hr	4,777 ~ 21,155 Btu/hr	3,412 ~ 25,250 Btu/hr
	Capacity (Heating, Min - Max, Btu/hr)	1911 - 11260 Btu/hr	1638 - 14331 Btu/hr	3,344 ~ 22,179 Btu/hr	3,344 ~ 27,809 Btu/hr
	Capacity (Cooling, kW)	2.50 kW	3.30 kW	5.00 kW	6.45 kW
	Capacity (Heating, kW)	3.20 kW	3.80 kW	5.50 kW	6.45 kW
	Capacity (Cooling, Min - Max, kW)	0.7 - 3.3 kW	0.68 - 4.2 kW	1.4 ~ 6.2 kW	1.0 ~ 7.4 kW
	Capacity (Heating, Min - Max, kW)	0.56 - 3.3 kW	0.48 - 4.2 kW	0.98 ~ 6.5 kW	0.98 ~ 8.15 kW
Energy Efficiency	EER (Cooling, W/W)	3.21 W/W	3.22 W/W	3.33 W/W	3.09 W/W
	COP (Heating, W/W)	3.56 W/W	3.41 W/W	3.57 W/W	3.23 W/W
	EER (Cooling, Btu/hW)	10.94 Btu/hW	10.99 Btu/hW	11.37 Btu/hW	10.53 Btu/hW
	COP (Heating, Btu/hW)	12.13 Btu/hW	11.63 Btu/hW	12.19 Btu/hW	11.00 Btu/hW
	Energy Efficiency Class for cooling (Grade)	A	A	A	B
Noise Level	Noise Level (Indoor, High/Low, dBA)	38 / 21 dBA	39 / 22 dBA	41 / 27 dBA	44 / 28 dBA
	Noise Level (Outdoor, High/Low, dBA)	49 dBA	49 dBA	51 dBA	54 dBA
Electrical Data	Power Source(ØV/Hz)	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
	Power Consumption(Cooling, W)	780 W	1025 W	1500 W	2090 W
	Power Consumption(Heating, W)	900 W	1115 W	1540 W	2000 W
	Operating Current(Cooling, A)	3.9 A	5.0 A	6.6 A	9.4 A
	Operating Current(Heating, A)	4.3 A	5.2 A	6.9 A	8.9 A
Physical specification	Gross Dimension (Indoor, WxHxD)	880*290*375 mm	880*290*375 mm	1115*290*375 mm	1115*290*375 mm
	Gross Dimension (Outdoor, WxHxD)	778*550*331 mm	844*622*353 mm	913*622*371 mm	1023*724*413 mm
	Net Dimension (Indoor, WxHxD)	820*299*215 mm	820*299*215 mm	1055*299*215 mm	1055*299*215 mm
	Net Dimension (Outdoor, WxHxD)	660*475*242 mm	720*548*265 mm	790*548*285 mm	880*638*310 mm
	Gross Weight (Indoor, kg)	10.5 kg	10.5 kg	13.6 kg	13.7 kg
	Gross Weight (Outdoor, kg)	23.9 kg	29.1 kg	35.3 kg	45.1 kg
	Net Weight (Indoor, kg)	9.2 kg	9.2 kg	11.9 kg	11.9 kg
	Net Weight (Outdoor, kg)	22.2 kg	27.1 kg	33.8 kg	42.1 kg
	Loading Quantity (20/40/40Hft without Pipe)	120 / 248 / 280	96 / 197 / 232	80 / 168 / 198	65 / 138 / 154
Technical Information	Piping Length (Max, m)	15 m	15 m	20 m	20 m
	Piping Height (Max, m)	7 m	7 m	12 m	12 m
	SVC Valve (Liquid (ODxL))	6.35	6.35	6.35	6.35
	SVC Valve (Gas (ODxL))	9.52	9.52	12.7	15.88
	Moisture Removal (l/hr)	1 l/hr	1.5 l/hr	2 l/hr	2.5 l/hr
	Air Circulation (Cooling, °C/min)	10.3 °C/min	10.7 °C/min	16.6 °C/min	18.6 °C/min
	Refrigerant (Type)	R410A	R410A	R410A	R410A
	Refrigerant (Charging, kg)	0.83 kg	0.97 kg	1.15 kg	1.4 kg
	Refrigerant (Charging, tCO2e)	1.73 tCO2e	2.03 tCO2e	2.4 tCO2e	2.92 tCO2e
	Low Ambient (Cooling, °C)	16-46 °C	16-46 °C	16-46 °C	16-46 °C
	Low Ambient (Heating, °C)	-10-24 °C	-10-24 °C	-10-24 °C	-10-24 °C
	Outdoor Unit (Compressor Type)	BLDC	BLDC	BLDC	BLDC
	Outdoor Unit (Anti-Corrosion Fin)	Yes	Yes	Yes	Yes
Air Flow	WindFree Cooling	Yes	Yes	Yes	Yes
	Air Direction Control (Up/Down)	Auto	Auto	Auto	Auto
	Air Direction Control (Left/Right)	Auto	Auto	Auto	Auto
	Air Flow Control Step (Cool/Fan)	5/4	5/4	5/4	5/4
Air Purification	PM 1.0 Filter	No	No	No	No
	Tri Care Filter	Yes	Yes	Yes	Yes
	Easy Filter Plus (Anti-Bacteria)	Yes	Yes	Yes	Yes
	Auto Clean (Self Cleaning)	Yes	Yes	Yes	Yes
Convenience	SmartThings	Yes	Yes	Yes	Yes
	AI Auto Cooling	Yes	Yes	Yes	Yes
	Motion Detect Sensor	No	No	No	No
	Freeze Wash	No	No	No	No
	Filter Cleaning Indicator	Yes	Yes	Yes	Yes
	Indoor Temp. Display	Yes	Yes	Yes	Yes
	Display On/Off	Yes	Yes	Yes	Yes
	Beep On/Off	Yes	Yes	Yes	Yes
	24-Hour Timer	Yes	Yes	Yes	Yes
	Auto Changeover	Yes	Yes	Yes	Yes
Operating Mode	Auto Restart	Yes	Yes	Yes	Yes
	Auto Mode	Yes	Yes	Yes	Yes
	Fast Cool	Yes	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes	Yes
	Eco Mode	Yes	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes	Yes
	Fan Mode	Yes	Yes	Yes	Yes
Quiet Mode	Yes	Yes	Yes	Yes	
Smart	WiFi Embedded	Yes	Yes	Yes	Yes
App Connectivity	SmartThings App Support	Yes	Yes	Yes	Yes



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