

# SAMSUNG



**Intelligent cooling.  
No cold drafts.**



## Samsung Smart Inverter AR8500 WindFree™ air conditioners



- **Tri-Care Filter** - with zeolite coating to eliminate allergens, viruses, and bacteria.
- **WiFi-enabled** - through the Samsung SmartThings App, control and monitor your aircon unit remotely, anytime, anywhere.
- **AI Auto Cooling** - the power of artificial intelligence automatically optimises the various modes by analysing the room conditions and your usage patterns.
- **Powerful & advanced airflow** - cools a wider and larger area more evenly.
- **WindFree™ Cooling** - cools a wider and larger area more evenly. And it consumes up to 77% less energy than Fast Cooling mode\* so you can stay comfortably cool while reducing energy costs.

# Samsung Smart Inverter AR8500B WindFree™ air conditioners

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 high-density filter is able to extract dust and fibres while the zeolite coating captures 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 air con 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	18767 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(Ø/V/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
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	PM1.0 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	Yes	Yes	Yes	Yes
Smart	WiFi Embedded	Yes	Yes	Yes	Yes
App Connectivity	SmartThings App Support	Yes	Yes	Yes	Yes

Due to Samsung's policy of constant improvement, specifications are subject to change without notice. E&OE.

\* Specifications may be subject to change without prior notice.

- Cooling capacities based on: - Indoor temperature: 27°C DB, 19°C Wb - Outdoor temperature: 35°C DB, 24°C WB. Equivalent refrigerant piping: 5m, Level difference: 0M
- Heating capacities based on: - Indoor temperature: 20°C DB, 15°C Wb - Outdoor temperature: 7°C DB, 64°C WB. Equivalent refrigerant piping: 5m, Level difference: 0M
- Sound pressure was acquired in an anechoic room. Thus noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.



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