



## Samsung AR4500 range

9000, 12 000, 18 000 and 24 000 Btu/hr



- **Digital Inverter Technology** ensures significant running cost savings by maintaining the desired temperature without constantly switching on and off.
- **Fast Cooling mode** cools an entire room rapidly and effectively.
- **2-Way Auto Swing** automatically controls the air flow direction, so it is quickly and evenly distributed across the room. It can expel cool or warm air further and in every direction to ensure maximum comfort.
- **HD Filter** is effective at capturing dust, airborne contaminants and allergens, making sure the air you breathe is fresh and clean.
- **Good Sleep mode** automatically controls and fine-tunes the temperature to create the ideal conditions for each stage of the sleep cycle.
- **Auto mode, Auto restart function and indoor temperature display.**
- **The DuraFin** is made of corrosion-resistant material to protect the condenser from rusting, which helps to maintain the optimal performance of the Heat Exchanger.
- Suitable for room sizes from **15m<sup>2</sup> up to 45m<sup>2</sup>**

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# Samsung AR4500 range (Inverter)

9000, 12 000, 18 000 and 24 000 Btu/hr

This new Samsung AR4500 range with Digital Inverter saves money by constantly maintaining pre-set temperature without constantly switching on and off. Cooling capacities from 2.50 kW up to 6.45 kW, heating from 2.6 kW up to 6.75 kW. EERs (Cooling W/W) are from 3.01 up to 3.21 and COPs (Heating W/W) up to 3.55. Piping lengths (indoor/outdoor) are 15 to 25 metres, with a height difference of 10 metres.



Model Code		AR09BSHGAWK/FA	AR12BSHGAWK/FA	AR18BSHGAWK/FA	AR24BSHGAWK/FA
Capacity	Capacity (Cooling, Btu/hr)	8530 Btu/hr	10407 Btu/hr	16003 Btu/hr	22008 Btu/hr
	Capacity (Heating, Btu/hr)	8872 Btu/hr	11260 Btu/hr	17999 Btu/hr	23032 Btu/hr
	Capacity (Cooling, Min - Max, Btu/hr)	2,218-10,236 Btu/hr	2,047-12,283 Btu/hr	5,732-19,210 Btu/hr	5,800-25,200 Btu/hr
	Capacity (Heating, Min - Max, Btu/hr)	2,047-11,601 Btu/hr	2,047-12,966 Btu/hr	5,323-22,280 Btu/hr	4,800-27,000 Btu/hr
	Capacity (Cooling, kW)	2.50 kW	3.05 kW	4.69 kW	6.45 kW
	Capacity (Heating, kW)	2.60 kW	3.3 kW	5.28 kW	6.75 kW
	Capacity (Cooling, Min - Max, kW)	0.65-3.00 kW	0.60-3.60 kW	1.68-5.63 kW	1.70-7.40 kW
	Capacity (Heating, Min - Max, kW)	0.60-3.40 kW	0.60-3.80 kW	1.56-6.53 kW	1.40-7.90 kW
Energy Efficiency	EER (Cooling, W/W)	3.01 W/W	3.01 W/W	3.01 W/W	3.21 W/W
	COP (Heating, W/W)	3.50 W/W	3.21 W/W	3.20 W/W	3.55 W/W
	EER (Cooling, Btu/hW)	10.28 Btu/hW	10.27 Btu/hW	10.27 Btu/hW	10.95 Btu/hW
	COP (Heating, Btu/hW)	11.96 Btu/hW	10.95 Btu/hW	10.91 Btu/hW	12.12 Btu/hW
Noise Level	Noise Level (Indoor, High/Low, dBA)	36/25.0 dBA	36/22.5 dBA	41/34 dBA	46/37 dBA
	Noise Level (Outdoor, High/Low, dBA)	47 dBA	52 dBA	53 dBA	54 dBA
Electrical Data	Power Source(Φ/V/Hz)	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
	Power Consumption(Cooling, W)	830 W	1013 W	1558 W	2010 W
	Power Consumption(Heating, W)	742 W	1028 W	1650 W	1900 W
	Operating Current(Cooling, A)	3.70 A	4.50 A	9.00 A	9.00 A
	Operating Current(Heating, A)	3.20 A	4.60 A	8.50 A	8.50 A
	Net Dimension (Indoor, WxHxD)	790×275×200 mm	790×275×200 mm	970×300×224 mm	1078×325×246 mm
	Net Dimension (Outdoor, WxHxD)	782×540×320 mm	848×596×320 mm	899×596×378 mm	912×646×373 mm
	Net Weight (Indoor, kg)	9.0 kg	9.0 kg	14.0 kg	17.0 kg
	Net Weight (Outdoor, kg)	27.0 kg	31.0 kg	40.0 kg	44.0 kg
Technical Information	Piping Length (Max, m)	15 m	20 m	20 m	25 m
	Piping Height (Max, m)	10 m	10 m	10 m	10 m
	SVC Valve (Liquid (ODxL))	φ6	φ6	φ6	φ6
	SVC Valve (Gas (ODxL))	φ9.52	φ9.52	φ12	φ16
	Moisture Removal (l/hr)	0.80 l/hr	1.40 l/hr	2.00 l/hr	2.00 l/hr
	Air Circulation (Cooling, °C/min)	560 °C/min	560 °C/min	800 °C/min	1200 °C/min
	Refrigerant (Type)	R410A	R410A	R410A	R410A
	Low Ambient (Cooling, °C)	18~43 °C	-15~43 °C	18~43 °C	18~48 °C
	Low Ambient (Heating, °C)	-7~24 °C	-15~24 °C	-7~24 °C	-7~24 °C
Air Flow	Air Direction Control (Up/Down)	Auto	Auto	Auto	Auto
	Air Direction Control (Left/Right)	Manual	Manual	Manual	Manual
	Air Flow Control Step (Cool/Fan)	3 Step	3 Step	3 Step	3 Step
Convenience	Indoor Temp. Display	Yes	Yes	Yes	Yes
	Display On/Off	Yes	Yes	Yes	Yes
	24-Hour Timer	Yes	Yes	Yes	Yes
	Auto Restart	Yes	Yes	Yes	Yes
Operating Mode	Auto Mode	Yes	Yes	Yes	Yes
	Fast Cool	Yes	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes	Yes
	Fan Mode	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.

1) Cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

2) Heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB - Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) These products contain R410A which is fluorinated greenhouse gas.

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