



# SAMSUNG AR40 Inverter

## air conditioner

**The new Samsung AR40 delivers energy-efficient cooling with eco-friendly R32 refrigerant and Digital Inverter technology**

Helping to lower running costs while ensuring reliable performance. With modes like Auto, Fast Cool, Good Sleep, and Dehumidification, it provides tailored comfort for every situation. An HD Filter improves air quality, and the durable DuraFin™ Plus protects the unit for long-lasting use. Convenient features, such as an indoor temperature display and auto restart, make operation simple and hassle-free.



### Product Features:

- R32 Refrigerant
- Indoor Temp Display
- Auto Restart Function
- Auto Mode
- Fast Cool Mode
- Good Sleep Mode
- Dehumidification Mode
- Digital Inverter Technology
- HD Filter
- DuraFin™ Plus

# AR40 Inverter air conditioner

9000, 12000, 18000 & 24000 BTU

Product	AR40	AR40	AR40	AR40
Model Code	AR40F09C0AG/FA	AR40F12C0AG/FA	AR40F18C0AG/FA	AR40F24C0AG/FA
Capacity	Capacity (Cooling, Btu/hr)	8701 Btu/hr	10884 Btu/hr	15999 Btu/hr
	Capacity (Heating, Btu/hr)	9042 Btu/hr	11225 Btu/hr	16500 Btu/hr
	Capacity (Cooling, Min - Max, Btu/hr)	2047 - 10236 Btu/hr	2729 - 13648 Btu/hr	2927 - 19448 Btu/hr
	Capacity (Heating, Min - Max, Btu/hr)	2559 - 11600 Btu/hr	2729 - 15013 Btu/hr	3958 - 18084 Btu/hr
	Capacity (Cooling, kW)	2.55 kW	3.19 kW	4.68 kW
	Capacity (Heating, kW)	2.65 kW	3.29 kW	4.83 kW
	Capacity (Cooling, Min - Max, kW)	0.60 - 3.00 kW	0.80 - 4.00 kW	0.80 - 5.70 kW
Energy Efficiency	Capacity (Heating, Min - Max, kW)	0.75 - 3.40 kW	0.80 - 4.40 kW	1.16 - 5.30 kW
	EER (Cooling, W/W)	3.21 W/W	3.10 W/W	3.09 W/W
	COP (Heating, W/W)	3.75 W/W	3.61 W/W	3.50 W/W
	EER (Cooling, Btu/hW)	10.95 Btu/hW	10.57 Btu/hW	10.54 Btu/hW
	COP (Heating, Btu/hW)	12.79 Btu/hW	12.31 Btu/hW	11.94 Btu/hW
Energy Efficiency Class for cooling (Grade)	A (Heating : A++)	B (Heating : A++)	B (Heating : A)	A (Heating : A+)
Noise Level	Noise Level (Indoor, High/Low, dBA)	42/29 dBA	44/28 dBA	51/33 dBA
	Noise Level (Outdoor, High/Low, dBA)	53 dBA	55 dBA	57 dBA
Electrical Data	Power Source(Φ/V/Hz)	1 / 220-240- / 50	1 / 220-240- / 50	1 / 220-240- / 50
	Power Consumption(Cooling, W)	794 W	1029 W	1513 W
	Power Consumption(Heating, W)	707 W	911 W	1382 W
	Operating Current(Cooling, A)	3.6 A	4.7 A	6.6 A
	Operating Current(Heating, A)	3.4 A	4.3 A	6.0 A
Physical specification	Gross Dimension (Indoor, WxHxD, mm*mm*mm)	844x328x277 mm	911x343x290 mm	1016x409x340 mm
	Gross Dimension (Outdoor, WxHxD, mm*mm*mm)	794x615x376 mm	794x615x376 mm	794x615x376 mm
	Net Dimension (Indoor, WxHxD, mm*mm*mm)	783x260x185 mm	835x275x200 mm	943x333x246 mm
	Net Dimension (Outdoor, WxHxD, mm*mm*mm)	732x555x330 mm	732x555x330 mm	732x555x330 mm
	Gross Weight (Indoor, kg)	9.5 kg	11.0 kg	16.0 kg
	Gross Weight (Outdoor, kg)	26.8 kg	28.0 kg	29.5 kg
	Net Weight (Indoor, kg)	7.7 kg	9.0 kg	13.0 kg
	Net Weight (Outdoor, kg)	24.4 kg	25.5 kg	27.0 kg
	Loading Quantity (20/40/40Hft without Pipe)	108/222/260	90/212/252	84/176/207
Technical Information	Piping Length (Max, m)	15 m	20 m	25 m
	Piping Height (Max, m)	10 m	10 m	10 m
	SVC Valve (Liquid) Inches	1/4	1/4	1/4
	SVC Valve (Gas) Inches	3/8	3/8	1/2
	Moisture Removal (L/hr)	0.76 L/hr	0.76 L/hr	1.80 L/hr
	Air Circulation (Cooling, m <sup>3</sup> / min)	8.33 m <sup>3</sup> / min	10.33 m <sup>3</sup> / min	16.33 m <sup>3</sup> / min
	Refrigerant (Type)	R32	R32	R32
	Refrigerant (Charging, kg)	0.50 kg	0.59 kg	0.77 kg
	Operating Temperature (Cooling °C)	18-48 °C	18-48 °C	18-48 °C
	Operating Temperature (Heating °C)	-7-24 °C	-7-24 °C	-7-24 °C
	Outdoor Unit (Compressor Type)	Rotary	Rotary	Rotary
	Outdoor Unit (Anti-Corrosion Fin)	Yes	Yes	Yes
	Air Flow	Air Direction Control (Up/Down)	Auto	Auto
Air Direction Control (Left/Right)		Manual	Manual	Manual
Air Flow Control Step (Cool/Fan)		3 step	3 step	3 step
Convenience	Indoor Temp. Display	Yes	Yes	Yes
	Display On/Off	Yes	Yes	Yes
	24-Hour Timer	Yes	Yes	Yes
	Auto Restart	Yes	Yes	Yes
Operating Mode	Auto Mode	Yes	Yes	Yes
	Fast Cool	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes
	Fan Mode	Yes	Yes	Yes

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