



# 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		AR40F09COAG/FA	AR40F12COAG/FA	AR40F18COAG/FA	AR40F24COAG/FA
Capacity	Capacity (Cooling, Btu/hr)	8701 Btu/hr	10884 Btu/hr	15999 Btu/hr	23884 Btu/hr
	Capacity (Heating, Btu/hr)	9042 Btu/hr	11225 Btu/hr	16500 Btu/hr	24000 Btu/hr
	Capacity (Cooling, Min - Max, Btu/hr)	2047 - 10236 Btu/hr	2729 - 13648 Btu/hr	2927 - 19448 Btu/hr	7165 - 24550 Btu/hr
	Capacity (Heating, Min - Max, Btu/hr)	2559 - 11600 Btu/hr	2729 - 15013 Btu/hr	3958 - 18084 Btu/hr	7165 - 27000 Btu/hr
	Capacity (Cooling, kW)	2.55 kW	3.19 kW	4.68 kW	7.00 kW
	Capacity (Heating, kW)	2.65 kW	3.29 kW	4.83 kW	7.03 kW
	Capacity (Cooling, Min - Max, kW)	0.60 - 3.00 kW	0.80 - 4.00 kW	0.80 - 5.70 kW	2.10 - 7.50 kW
	Capacity (Heating, Min - Max, kW)	0.75 - 3.40 kW	0.80 - 4.40 kW	1.16 - 5.30 kW	2.10 - 7.91 kW
Energy Efficiency	EER (Cooling, W/W)	3.21 W/W	3.10 W/W	3.09 W/W	3.21 W/W
	COP (Heating, W/W)	3.75 W/W	3.61 W/W	3.50 W/W	3.18 W/W
	EER (Cooling, Btu/hW)	10.95 Btu/hW	10.57 Btu/hW	10.54 Btu/hW	10.95 Btu/hW
	COP (Heating, Btu/hW)	12.79 Btu/hW	12.31 Btu/hW	11.94 Btu/hW	10.85 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	54/33 dBA
	Noise Level (Outdoor, High/Low, dBA)	53 dBA	55 dBA	57 dBA	60 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)	794 W	1029 W	1513 W	2181 W
	Power Consumption(Heating, W)	707 W	911 W	1382 W	2212 W
	Operating Current(Cooling, A)	3.6 A	4.7 A	6.6 A	9.0 A
	Operating Current(Heating, A)	3.4 A	4.3 A	6.0 A	9.0 A
Physical specification	Gross Dimension (Indoor, WxHxD, mm*mm*mm)	844x328x277 mm	911x343x290 mm	1016x409x340 mm	1016x409x340 mm
	Gross Dimension (Outdoor, WxHxD, mm*mm*mm)	794x615x376 mm	794x615x376 mm	794x615x376 mm	1032x737x456 mm
	Net Dimension (Indoor, WxHxD, mm*mm*mm)	783x260x185 mm	835x275x200 mm	943x333x246 mm	943x333x246 mm
	Net Dimension (Outdoor, WxHxD, mm*mm*mm)	732x555x330 mm	732x555x330 mm	732x555x330 mm	958x660x402 mm
	Gross Weight (Indoor, kg)	9.5 kg	11.0 kg	16.0 kg	16.1 kg
	Gross Weight (Outdoor, kg)	26.8 kg	28.0 kg	29.5 kg	46.2 kg
	Net Weight (Indoor, kg)	7.7 kg	9.0 kg	13.0 kg	13.0 kg
	Net Weight (Outdoor, kg)	24.4 kg	25.5 kg	27.0 kg	42.5 kg
	Loading Quantity (20/40/40Hft without Pipe)	108/222/260	90/212/252	84/176/207	58/118/138
Technical Information	Piping Length (Max, m)	15 m	20 m	25 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	φ12
	Moisture Removal (l/hr)	0.76 l/hr	0.76 l/hr	1.80 l/hr	2.00 l/hr
	Air Circulation (Cooling, l/min)	8.33 l/min	10.33 l/min	16.33 l/min	18.33 l/min
	Refrigerant (Type)	R32	R32	R32	R32
	Refrigerant (Charging, kg)	0.50 kg	0.59 kg	0.77 kg	1.10 kg
	Low Ambient (Cooling, °C)	18-48 °C	18-48 °C	18-48 °C	18-48 °C
	Low Ambient (Heating, °C)	-7-24 °C	-7-24 °C	-7-24 °C	-7-24 °C
	Outdoor Unit (Compressor Type)	Rotary	Rotary	Rotary	Rotary
	Outdoor Unit (Anti-Corrosion Fin)	Yes	Yes	Yes	Yes
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
Air Purification	Easy Filter Plus (Anti-Bacteria)	No	No	No	No
	Auto Clean (Self Cleaning)	No	No	No	No
Convenience	SmartThings	No	No	No	No
	AI Auto Cooling	No	No	No	No
	Motion Detect Sensor	No	No	No	No
	Freeze Wash	No	No	No	No
	Filter Cleaning Indicator	No	No	No	No
	Indoor Temp. Display	Yes	Yes	Yes	Yes
	Display On/Off	Yes	Yes	Yes	Yes
	Beep On/Off	No	No	No	No
	24-Hour Timer	Yes	Yes	Yes	Yes
	Auto Changeover	No	No	No	No
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
Smart	Quiet	No	No	No	No
	WiFi Embedded	No	No	No	No
App Connectivity	SmartThings App Support	No	No	No	No