fourways | SAMSUNG
Smart Airconditioning Solutions



Samsung AR40 Digital Inverter Mid-Wall Split

Fast Cooling
Quickly brings your room to a comfortable temperature.

SmartThings Control & Wi-Fi
Connect via built-in Wi-Fi to control, set routines and monitor the unit performance.

Good Sleep Mode
Creates a more comfortable environment for restful sleep.

Quiet Operation
Enjoy comfortable cooling with less disruption.

Auto Restart
Automatically resumes operation after a power interruption.

Dehumidification
Helps remove excess moisture for a fresher-feeling room.

Heating and Cooling
Year-round comfort in every season

R32 Refrigerant
Efficient cooling with a lower environmental impact.

Anti-Corrosion Fin
Helps protect the outdoor unit for lasting performance.

Energy Saving Digital Inverter
All-season comfort with steady temperatures and reduced energy use.

FIVE YEAR 5 WARRANTY

DIGITAL INVERTER TECHNOLOGY
10 YEAR WARRANTY ON THE COMPRESSOR

Product Specification Details



Model Code		AR40H09C1AM/FA	AR40H12C1AM/FA	AR40H18C1AM/FA	AR40H24C1AM/FA
Capacity	Rated Cooling Capacity (BTU/h)	9000 BTU/h	11800 BTU/h	17900 BTU/h	21000 BTU/h
	Rated Heating Capacity (BTU/h)	10000 BTU/h	11500 BTU/h	18600 BTU/h	22000 BTU/h
	Variable Cooling Capacity (Min - Max) (BTU/h)	3400 - 13100 BTU/h	3400 - 13100 BTU/h	5100 - 20000 BTU/h	4800 - 24000 BTU/h
	Variable Heating Capacity (Min - Max) (BTU/h)	4000 - 13500 BTU/h	4000 - 13500 BTU/h	6100 - 19500 BTU/h	4900 - 24000 BTU/h
	Rated Cooling Capacity (kW)	2.64 kW	3.47 kW	5.24 kW	6.15 kW
	Rated Heating Capacity (kW)	2.93 kW	3.37 kW	5.45 kW	6.44 kW
	Variable Cooling Capacity (Min - Max) (kW)	0.99 - 3.84 kW	0.99 - 3.84 kW	1.49 - 5.86 kW	1.40 - 7.03 kW
	Variable Heating Capacity (Min - Max) (kW)	1.17 - 3.95 kW	1.17 - 3.95 kW	1.78 - 5.71 kW	1.43 - 7.03 kW
Energy Efficiency	EER (Cooling)(W/W)	3.21 W/W	3.01 W/W	3.21 W/W	3.21 W/W
	COP (Heating)(W/W)	3.61 W/W	3.46 W/W	3.61 W/W	3.61 W/W
Noise Level	Noise Level (Indoor, High/Low, dBA)	48.5 / 31 dBA	48.5 / 31 dBA	48.5 / 33 dBA	53 / 37.5 dBA
	Noise Level (Outdoor, High/Low, dBA)	55.5 / 57.0 dBA	55.5 / 57.0 dBA	55.5 / 58.0 dBA	55.5 / 57.0 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)	822 W	1152 W	1632 W	1915 W
	Power Consumption (Heating)(W)	811 W	973 W	1509 W	1783 W
	Operating Current (Cooling)(A)	5.3 A	5.7 A	7.5 A	8.7 A
	Operating Current (Heating)(A)	4.4 A	4.8 A	7.1 A	8.3 A
Physical Specification	Gross Dimension (Indoor, WxHxD, mm)	875 x 285 x 375 mm	875 x 285 x 375 mm	1045 x 305 x 405 mm	1155 x 315 x 415 mm
	Gross Dimension (Outdoor, WxHxD, mm)	828 x 530 x 298 mm	828 x 530 x 298 mm	887 x 600 x 337 mm	915 x 600 x 370 mm
	Net Dimension (Indoor, WxHxD, mm)	802 x 295 x 200 mm	802 x 295 x 200 mm	971 x 321 x 228 mm	1082 x 337 x 234 mm
	Net Dimension (Outdoor, WxHxD, mm)	720 x 495 x 270 mm	720 x 495 x 270 mm	765 x 555 x 303 mm	805 x 554 x 330 mm
	Gross Weight (Indoor Unit)(kg)	10.9 kg	10.9 kg	15.1 kg	18.8 kg
	Gross Weight (Outdoor Unit)(kg)	22.2 kg	22.2 kg	30.1 kg	36.1 kg
	Net Weight (Indoor Unit)(kg)	8.9 kg	8.9 kg	12.3 kg	14.8 kg
	Net Weight (Outdoor Unit)(kg)	20.3 kg	20.3 kg	27.5 kg	33.5 kg
	Loading Quantity (20/40/40H, without Pipe)(EA)	130 / 255 / 300 EA	130 / 255 / 300 EA	90 / 185 / 218 EA	80 / 165 / 186 EA

Model Code		AR40H09C1AM/FA	AR40H12C1AM/FA	AR40H18C1AM/FA	AR40H24C1AM/FA
Technical Information	Piping Length (Max)(m)	25 m	25 m	30 m	30 m
	Piping Height (Max)(m)	10 m	10 m	20 m	20 m
	SVC Valve (Liquid, ODxL)(Inches)	1/4	1/4	1/4	3/8
	SVC Valve (Gas, ODxL)(Inches)	1/2	1/2	1/2	5/8
	Moisture Removal (L/h)	1.4 l/hr	1.4 l/hr	2.3 l/hr	2.8 l/hr
	Air Circulation (Cooling) (m^3/min)	10.83 m^3/min	10.83 m^3/min	14 m^3/min	21.67 m^3/min
	Refrigerant (Type)	R32	R32	R32	R32
	Refrigerant (Charging)(kg)	0.54 kg	0.54 kg	1.02 kg	1.25 kg
	Operating Temperature Range (Cooling) (°C)	0 ~ 50 °C	0 ~ 50 °C	0 ~ 50 °C	0 ~ 50 °C
	Operating Temperature Range (Heating) (°C)	-15 ~ 24 °C	-15 ~ 24 °C	-15 ~ 24 °C	-15 ~ 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)	6 step	6 step	6 step	6 step
Air Purification	HD - Filter	Yes	Yes	Yes	Yes
Convenience	SmartThings*	Yes	Yes	Yes	Yes
	Indoor Temperature 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	Standard Auto Mode	Standard Auto Mode	Standard Auto Mode	Standard Auto Mode
	Fast Cool	Yes	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes	Yes
	Fan Mode	Yes	Yes	Yes	Yes
	Quiet	Yes	Yes	Yes	Yes
Smart	Wi-Fi Embedded	Yes	Yes	Yes	Yes

*Limited to functions that can be controlled in SmartThings (turn on or off, set the temperature, choose a mode, and fine tune airflow and fan speed)

up:
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Smart Airconditioning Solutions
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