fourways | SAMSUNG
Smart Airconditioning Solutions



Samsung AR80H Bespoke AI Wind-Free™ Pro+ Mid-Wall Split

AI Motion Wind & Radar Sensor
7 Motions with radar sensing for automatic comfort, based on occupancy and activity.

PM1.0 (Sterilising & Air Purifying) Filter
Washable filter that helps capture 99% of bacteria, viruses and allergens and up to 90% ultra-fine dust for cleaner air

AI Fast & Comfort Cooling
Learns your usage and room conditions to automatically maintain ideal comfort.

Freeze Wash
Quickly freezes and defrosts to remove dirt and contaminants from inside the unit.

Good Sleep & WindFree Wearable
Connects to wearable devices to automatically optimise aircon settings for comfortable sleep.

Triple Protector Plus
Protects against power fluctuations, while anti-corrosion coating safeguards the condenser and cabinet.

AI Windfree Energy Saving Inverter
Automatically adjusts settings to reduce energy use while maintaining all-season comfort.

WindFree Low Noise
Windfree technology gently disperses air through thousands of micro air holes resulting in less air friction and noise.

SmartThings Control & Wi-Fi Connect via built-in Wi-Fi to quick control, monitor, voice control, update and analyse performance from anywhere.

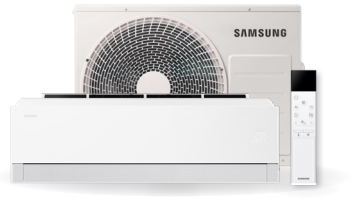
R32 Refrigerant
Supports efficient cooling with a lower environmental impact.

Dry Comfort
Helps reduce humidity while maintaining a comfortable temperature.

FIVE YEAR 5 WARRANTY

DIGITAL INVERTER TECHNOLOGY 10 YEAR WARRANTY ON THE COMPRESSOR

Product Specification Details



Model Code		AR80H12CADW/FA	AR80H18CADW/FA	AR80H24CADW/FA
Capacity	Rated Cooling Capacity (BTU/h)	11942 BTU/h	17061 BTU/h	22179 BTU/h
	Rated Heating Capacity (BTU/h)	12966 BTU/h	20473 BTU/h	23544 BTU/h
	Variable Cooling Capacity (Min - Max) (BTU/h)	3583 - 13649 BTU/h	3003 - 23203 BTU/h	4913 - 26956 BTU/h
	Variable Heating Capacity (Min - Max) (BTU/h)	2218 - 17061 BTU/h	1501 - 25591 BTU/h	4504 - 30368 BTU/h
	Rated Cooling Capacity (kW)	3.50 kW	5.00 kW	6.50 kW
	Rated Heating Capacity (kW)	3.80 kW	6.00 kW	6.90 kW
	Variable Cooling Capacity (Min - Max) (kW)	1.05 - 4.00 kW	0.88 - 6.80 kW	1.44 - 7.90 kW
	Variable Heating Capacity (Min - Max) (kW)	0.65 - 5.00 kW	0.44 - 7.50 kW	1.32 - 8.90 kW
Energy Efficiency	EER (Cooling)(W/W)	3.21 W/W	3.57 W/W	3.32 W/W
	COP (Heating)(W/W)	3.41 W/W	3.43 W/W	3.45 W/W
	Energy Efficiency Class (Cooling)(Grade)	A	A+	A
	Energy Efficiency Class (Heating)(Grade)	A+	A+	A+
Noise Level	Noise Level (Indoor, High/Low, dBA)	38 / 22 dBA	43 / 25 dBA	44 / 28 dBA
	Noise Level (Outdoor, High/Low, dBA)	46 dBA	51 dBA	54 dBA
Electrical Data	Power Source(Φ/V/Hz)	1 Ph / AC 220 ~ 240 V / 50 Hz	Ph 1 / AC 220 ~ 240~ V / 50 Hz	Ph 1 / AC 220 ~ 240~ V / 50 Hz
	Power Consumption (Cooling)(W)	1090 W	1400 W	1960 W
	Power Consumption (Heating)(W)	1115 W	1750 W	2000 W
	Operating Current (Cooling)(A)	5A	6.5 A	8.8 A
	Operating Current (Heating)(A)	5A	7.7 A	8.8 A
Physical Specification	Gross Dimension (Indoor, WxHxD, ㎜*㎜*㎜)	880 x 400 x 320 mm	1115 x 400 x 320 mm	1115 x 400 x 320 mm
	Gross Dimension (Outdoor, WxHxD, ㎜*㎜*㎜)	834 x 620 x 323 mm	913 x 622 x 371 mm	1023 x 724 x 413 mm
	Net Dimension (Indoor, WxHxD, ㎜*㎜*㎜)	820 x 352 x 230 mm	1055 x 352 x 230 mm	1055 x 352 x 230 mm
	Net Dimension (Outdoor, WxHxD, ㎜*㎜*㎜)	710 x 540 x 220 mm	790 x 548 x 285 mm	880 x 638 x 310 mm
	Gross Weight (Indoor Unit)(kg)	12.7 kg	15.7 kg	15.7 kg
	Gross Weight (Outdoor Unit)(kg)	26 kg	33 kg	40.5 kg
	Net Weight (Indoor Unit)(kg)	11 kg	14 kg	14 kg
	Net Weight (Outdoor Unit)(kg)	24 kg	30.7 kg	37.5 kg
	Loading Quantity (20/40/40H, without Pipe)(EA)	94 / 203 / 232 EA	77 / 162 / 185 EA	59 / 126 / 140 EA

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Technical Information	Piping Length (Max)(m)	15 m	30 m	30 m
	Piping Height (Max)(m)	8m	15 m	15 m
	SVC Valve (Liquid, ODxL)(Inches)	1/4"	1/4"	1/4"
	SVC Valve (Gas, ODxL)(Inches)	3/8"	1/2"	5/8"
	Moisture Removal (L/h)	1.39 l/hr	1.9 l/hr	2.3 l/hr
	Air Circulation (Cooling)(m^3/min)	10.40 m^3/min	16.1 m^3/min	15.5 m^3/min
	Refrigerant (Type)	R32	R32	R32
	Refrigerant (Charging)(kg)	0.7 kg	0.97 kg	1.15 kg
	Low Ambient (Cooling)(℃)	-10 ~ 46 ℃	-10 ~ 46 ℃	-10 ~ 46 ℃
	Low Ambient (Heating)(℃)	-15 ~ 24 ℃	-15 ~ 24 ℃	-15 ~ 24 ℃
	Outdoor Unit (Compressor Type)	BLDC	BLDC	BLDC
	Outdoor Unit (Anti-Corrosion Fin)	Yes	Yes	Yes
Air Flow	WindFree Cooling	Yes	Yes	Yes
	Air Direction Control (Up/Down)	Auto	Auto	Auto
	Air Direction Control (Left/Right)	Auto	Auto	Auto
Air Purification	PM1.0 (Sterilising & Air Purifying) Filter	Yes	Yes	Yes
	Auto Clean	Yes	Yes	Yes
Convenience	SmartThings	Yes	Yes	Yes
	AI Auto Cooling	Yes	Yes	Yes
	Motion Detect Sensor	Yes	Yes	Yes
	Freeze Wash	Yes	Yes	Yes
	Filter Cleaning Indicatior	Yes	Yes	Yes
	Indoor Temperature Display	Yes	Yes	Yes
	Display On/Off	Yes	Yes	Yes
	Beep On/Off	Yes	Yes	Yes
	24-Hour Timer	Yes	Yes	Yes
	Auto Changeover	Yes	Yes	Yes
	Auto Restart	Yes	Yes	Yes
Operating Mode	Auto Mode	AI Comfort (Wi-Fi + MDS, Direct/Indirect)	AI Comfort (Wi-Fi + MDS, Direct/Indirect)	AI Comfort (Wi-Fi + MDS, Direct/Indirect)
	Fast Cool	Yes	Yes	Yes
	Dry Comfort	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes
	Eco Mode (Cooling)	Yes	Yes	Yes
	Eco Mode (Heating)	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes
	Fan Mode	Yes	Yes	Yes
	Quiet	Yes	Yes	Yes
App Connectivity	SmartThings App Support	Yes	Yes	Yes

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5 YEAR WARRANTY

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