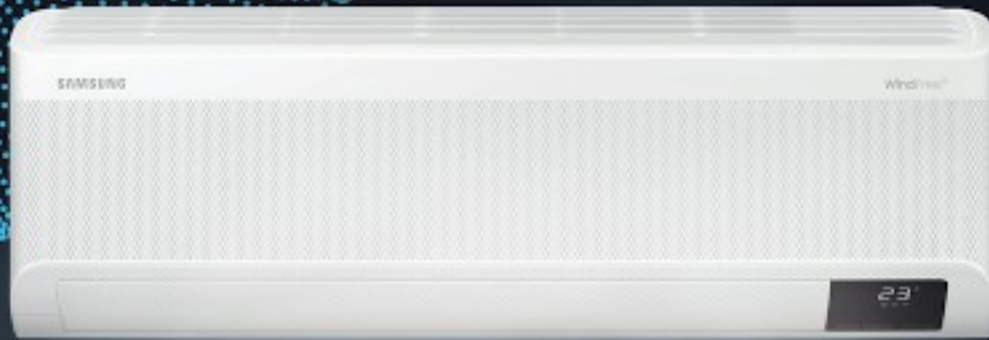


SAMSUNG
Climate Solutions



Find your flow.

Create your perfect environment.

samsung.com/windfree

WindFree™ Avant

WindFree™ Avant

The Samsung WindFree™ range keeps you comfortably cool without any cold drafts. It provides intelligent home climate comfort thanks to smart controls that adapt to your personal preferences, automatically maintaining optimal conditions.



WindFree™ Cooling

WindFree™ technology enhances your indoor comfort by using thousands of micro-holes to disperse air uniformly without any unpleasant blasts of cold wind. In WindFree™ mode, air is spread softly and silently, creating a 'Still Air'¹ environment that provides you total well-being day and night.



Smart Operation

AI Auto Comfort² introduces you to an intelligent way of living. It analyses your room conditions and usage patterns³, and then automatically adjusts the temperature. Temperatures can also be managed remotely using the SmartThings App². Turning it on and off, selecting the cooling mode, scheduling its operation and monitoring your air conditioner's power consumption is just one touch away.



R32 Refrigerant

The Samsung WindFree™ Avant air conditioner uses R32 refrigerant. The R32 refrigerant has a lower Global Warming Potential (GWP) than conventional R410A refrigerant, so it is more environmentally friendly⁴. Samsung's Single Split (RAC), Multi Split (FJM) and Commercial Split (CAC) product ranges upto 14 kW all feature R32 refrigerant.

¹ ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines 'Still Air' as air currents at speeds below 0.15m/s which lacks the presence of cold drafts.

² A Wi-Fi connection and Samsung SmartThings application account are required. Requires iOS 10.0 or later & Android 5.0 or later.

³ Stores user data, preferences and usage patterns to suggest the most useful options. ⁴ Air conditioners with R32 refrigerant have a Global Warming Potential (GWP) of 675, which is significantly lower than the GWP of R410A (2,088).



Step 1

The front panel opens, and Fast Cooling mode cools the room quickly from corner to corner.



Step 2

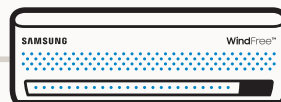
The set temperature is reached in Fast Cooling mode, and the front panel closes.



Step 3

WindFree™ mode spreads air uniformly through thousands of micro-holes.

Unique Samsung Solution



Wi-Fi Control

With Bixby⁵ voice control



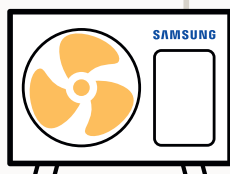
WindFree™ Indoor Unit

Thousands of micro-holes disperse air uniformly

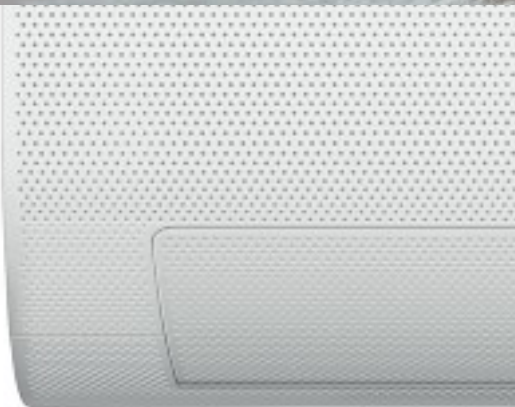


Compact Outdoor Unit

Available capacities: 2.5-6.8 kW



⁵ Bixby 2.0 Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian, Spanish and Portuguese.



Tri-Care Filter

The Tri-Care Filter¹ keeps the air cleaner and sustains the performance of the Heat Exchanger. Its three layers include a high-density filter that extracts certain large household dust particles, fibres and animal hair. It also has a filter with Zeolite coating that may help capturing fine dust, and helps to reduce certain types of bacteria and allergens in the air².

¹ Tested on the AR09TXCAAWKNEU model compared with the previous Samsung WindFree™ model AR09NXCAAWKNEU. The test was carried out in the Samsung internal test lab.

² Verified by Intertek testing samples of Samsung AR9500T in a continuous airflow condition (to KS K 0693:2016 protocol using bacteriophage MS2 virus ATCC 15597-B1 and Escherichiacoli strain C3000 ATCC 15597) and antiviral Tri-Care Filter (to Samsung-defined test criteria using Staphylococcus aureus ATCC 6538 and Klebsiella pneumoniae ATCC 4352). Our products have not been tested for their effects on the COVID-19 virus. Therefore, we do not make or give any express or implied claims or guarantees with regard to COVID-19.



AI Auto Comfort

AI Auto Comfort¹ introduces you to an intelligent way of living. To make life simpler and more efficient, it analyses room conditions and usage patterns². Based on your preference and the temperatures outside, it automatically adjusts the temperature to optimise the room's climate conditions, guaranteeing total comfort at all times.

¹ AI = Artificial Intelligence. A Wi-Fi connection and Samsung SmartThings application account are required. ² Stores user data, preferences and usage patterns to suggest the most useful options.



Voice Control

Supports voice control with Bixby 2.0¹. A user can simply command the device to obtain optimal indoor climate¹. To enable this function a Wi-Fi connection and Samsung SmartThings application account are required². In addition it is also compatible with Google Assistant & Amazon Alexa³.

¹ Currently Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian, Spanish and Portuguese.

² Requires iOS 10.0 or later & Android 5.0 or later.

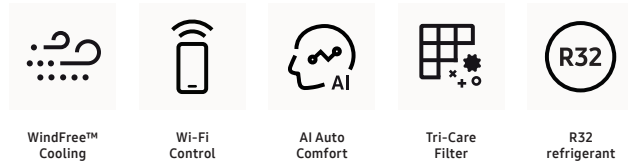
³ For supported commands, please check Amazon Alexa or Google Assistant website.





Specifications

WindFree™ Avant



Indoor Unit			AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU	AR24TXEAAWKNEU
Outdoor Unit			AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU	AR24TXEAAWKXEU
Capacity						
Capacity	Cooling (Nominal)	kW	2.5	3.5	5.0	6.5
	Cooling (Min–Max)	kW	1.0–3.4	1.0–4.0	1.6–6.7	1.4–7.6
	Heating @ +7 °C	kW	3.2	4.0	6.0	7.4
	Heating (Min–Max)	kW	0.72–5.00	0.74–5.50	1.30–8.00	1.20–9.70
	Heating @ -5 °C	kW	3.62	3.59	5.07	6.04
	Heating @ -10 °C	kW	3.37	3.33	4.70	5.65
	Heating @ -15 °C	kW	3.12	3.07	4.63	5.60
Performance						
Energy Efficiency Cooling	SEER ¹	W/W	7.9/ A++	7.3/ A++	6.8/ A++	6.4/ A++
	Power Consumption	kWh/a	111	168	257	355
	Pdesignc	kW	2.5	3.5	5.0	6.5
	EER	W/W	4.39	3.76	3.60	3.33
Energy Efficiency Heating	SCOP ¹	W/W	4.6/ A++	4.6/ A++	4.1/ A+	4.0/ A+
	Power Consumption	kWh/a	670	730	1,298	1,435
	Pdesignh (average)	kW	2.2	2.4	3.8	4.1
	COP ¹	W/W	4.21	3.74	3.53	3.15
Moisture Removal		l/h	1.0	1.5	2.0	2.5
Maximum Airflow (Cooling)	Indoor Unit	m ³ /min	9.5	10.5	15.7	17.6
	Outdoor Unit	m ³ /min	45.0	45.0	50.0	50.0
Sound Power	Indoor Unit (Cooling)	dB(A)	57	57	58	62
	Outdoor Unit (Cooling)	dB(A)	62	62	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)	38/16	40/16	41/25	45/26
	Outdoor Unit High	dB(A)	45	46	51	54
Operating Temperature Range	Cooling	°C	-10–46	-10–46	-10–46	-10–46
	Heating	°C	-15–24	-15–24	-15–24	-15–24
Electrical Data						
Power Source		Φ, V, Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Compressor Type	Outdoor Unit	Type	BLDC Rotary	BLDC Rotary	BLDC Rotary	BLDC Rotary
Power Consumption	Cooling	W	570	930	1,390	1,950
	Heating	W	760	1,070	1,700	2,350
Operating Current	Cooling	A	3.4	4.5	6.4	8.8
	Heating	A	3.7	5.1	7.8	10.5
Dimensions						
Net Dimensions (W x H x D)	Indoor Unit	mm	889 x 299 x 215	889 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg	9.9	9.9	12.2	12.5
	Outdoor Unit	kg	29.9	29.9	39.7	43.7
Refrigerant						
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 5 m)	kg	0.94	0.94	1.30	1.30
	Charging Ton Equivalent CO ₂	tCO ₂ e	0.63	0.63	0.88	0.88
	Additional Refrigerant Charging	g/m	10	10	15	15
Piping Connections	Liquid Pipe	ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m	3/15	3/15	3/30	3/30
Piping Height	Max	m	8	8	15	15
Piping Connections	Drain Pipe	ø, mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm

¹ Energy labels as shown are according to EU No 626/2011 (LOT10) label classification 2019, on a scale from D to A+++.

Indoor Unit		AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU	AR24TXEAAWKNEU
Outdoor Unit		AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU	AR24TXEAAWKXEU
Functions					
Airflow	WindFree™ Cooling	●	●	●	●
	Air Direction Control (Up/Down)	Auto	Auto	Auto	Auto
	Air Direction Control (Left/Right)	Auto	Auto	Auto	Auto
	Auto Fan Speed	●	●	●	●
Air Purification	Tri-Care Filter	●	●	●	●
	Easy Filter Plus	●	●	●	●
	Auto Clean (Self-Cleaning)	●	●	●	●
Operating Mode	AI Auto Comfort with Wi-Fi & MDS (direct/indirect)	-	-	-	-
	AI Auto Comfort with Wi-Fi	●	●	●	●
	Auto Mode (without Wi-Fi)	-	-	-	-
	Fast Cooling	●	●	●	●
	Good Sleep	●	●	●	●
	Eco	●	●	●	●
	Dehumidification	●	●	●	●
	Fan	●	●	●	●
	Quiet	●	●	●	●
Other Functions	Samsung SmartThings	●	●	●	●
	MDS (Motion Detect Sensor)	-	-	-	-
	Indoor Temperature Display	●	●	●	●
	Display On/Off	88 Display	●	●	●
	Beep On/Off	●	●	●	●
	Auto Changeover	●	●	●	●
	Auto Restart	●	●	●	●

Accessory



Wireless Remote Controller (included)	Advanced Wired Controller ²	Simple Type Controller ²	Touch Controller ²
	MWR-WG00JN/MWR-WG00KN	MWR-SH00N	MWR-SH11N

² MIM-A00N Interface is required for the connection to wired remote controllers.

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Learn more about Samsung Climate Solutions at:
www.samsung.com/climate

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Samsung Electronics Air Conditioner Europe B.V.
Evert van de Beekstraat 310, 1118 CX Schiphol
P.O. Box 75810, 1118 ZZ Schiphol
+31 (0)8 81 41 61 00
The Netherlands