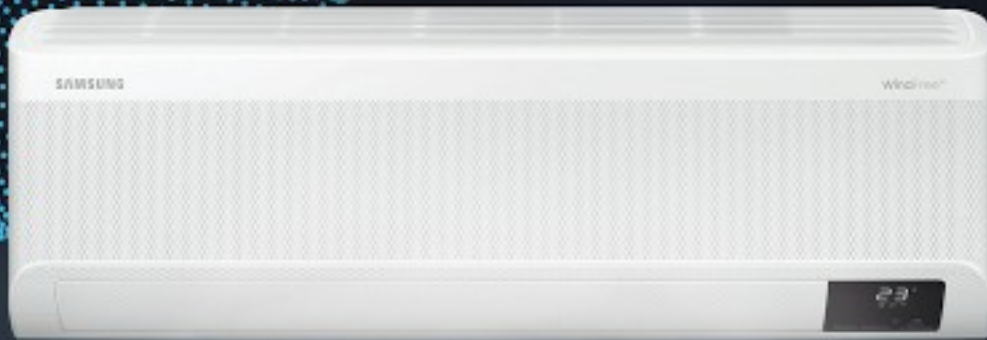


**SAMSUNG**  
Climate Solutions



**Find your flow.**

Create your perfect environment.

[samsung.com/windfree](https://samsung.com/windfree)

**Nordic WindFree™ Geo**

# Nordic WindFree™ Geo

With the Nordic WindFree™ Geo you not only enjoy optimal cooling without cold drafts in the summer but also a warm and comfortable indoor climate in the winter with the heating functionality. It provides intelligent home climate comfort thanks to smart controls that adapt to your personal preferences, automatically maintaining optimal conditions.



## Heating Up to -30°C

The Nordic WindFree™ Geo air source heat pump helps you achieve a comfortable warm temperature in your home even at extreme cold ambient temperatures<sup>1</sup>. To ensure optimal performance in low ambient temperature, the outdoor unit is equipped with a base heater by default.



## Smart Operation

AI Auto Comfort<sup>2</sup> introduces you to an intelligent way of living. It analyses your room conditions and usage patterns<sup>3</sup>, and then automatically adjusts the temperature. Temperatures can also be managed remotely using the SmartThings App<sup>2</sup>. Turning it on and off, selecting the cooling mode or scheduling its operation is just one touch away.



## R32 Refrigerant

The Samsung Nordic WindFree™ Geo air conditioner uses R32 refrigerant. The R32 refrigerant has a lower Global Warming Potential (GWP) than conventional R410A refrigerant, so it is more environmentally friendly<sup>4</sup>. Samsung's Single Split (RAC), Multi Split (FJM) and Commercial Split (CAC) product ranges upto 14 kW all feature R32 refrigerant.

<sup>1</sup> Tested internally. Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use. <sup>2</sup> Wi-Fi connection and Samsung SmartThings application account are required. Requires iOS 10.0 or later & Android 5.0 or later. <sup>3</sup> Stores user data, preferences and usage patterns to suggest the most useful options. <sup>4</sup> 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 mode cools or heats the room quickly from corner to corner.



### Step 2

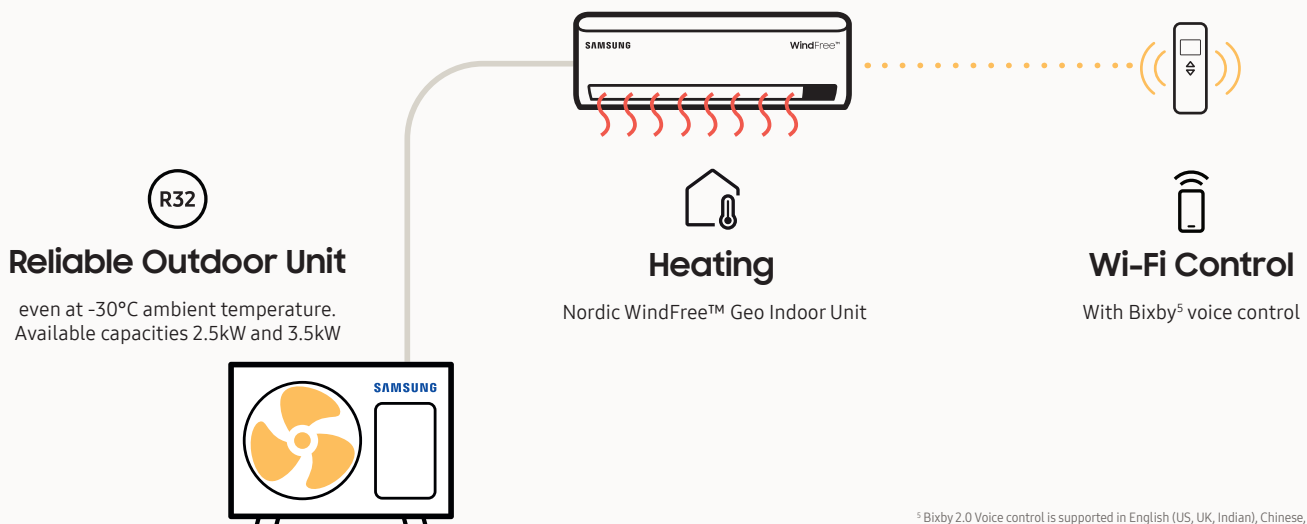
The set temperature is reached in Fast mode, and the front panel closes.



### Step 3

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

## Unique Samsung Solution



<sup>5</sup> 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 Filter<sup>1</sup> 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 air<sup>2</sup>.

<sup>1</sup> Tested on the AR09TXCAAWKNEU model compared with the previous Samsung WindFree™ model AR09NXCAWKNEU. The test was carried out in the Samsung internal test lab.

<sup>2</sup> 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.



### Motion Detect Sensor

The Motion Detect Sensor (MDS) cools or heats the home efficiently by self-regulating the air conditioner's activity when nobody is present. If no movement is detected for 20 minutes<sup>1</sup> it automatically switches to WindFree™ mode to save energy, after 40 minutes the device increases the temperature by 2°C in WindFree™ mode and after 40 minutes it enters standby (Soft off) mode. It will return to normal once activity resumes. MDS also enables customised airflow direction by allowing the desired comfort level to be selected.

<sup>1</sup> The Motion Detect Sensor (MDS) will start detecting the absence of movement after a minimum of 5 minutes and up to a maximum of 60 minutes.



### AI Auto Comfort

AI Auto Comfort<sup>1</sup> introduces you to an intelligent way of living. To make life simpler and more efficient, it analyses room conditions and usage patterns<sup>2</sup>. 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.








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





# Specifications

## Nordic WindFree™ Geo

						
WindFree™ Cooling	Heating Up to -30	Wi-Fi Control	AI Auto Comfort	Tri-Care Filter	Motion Detect Sensor	R32 refrigerant



Indoor Unit		AR09TXCACWKNEE		AR12TXCACWKNEE	
Outdoor Unit		AR09TXCACWKXEE		AR12TXCACWKXEE	
<b>Capacity</b>					
Capacity	Cooling (Nominal)	kW	2.5	3.5	
	Cooling (Min–Max)	kW	0.9-3.6	0.9-4.8	
	Heating @ +7 °C	kW	3.2	4.0	
	Heating (Min–Max)	kW	0.8-7.1	0.8-7.3	
	Heating @ 0 °C	kW	4.62	5.38	
	Heating @ -10 °C	kW	4.10	4.66	
	Heating @ -20 °C	kW	3.28	3.57	
<b>Performance</b>					
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W	8.8/ <b>A+++</b>	8.5/ <b>A+++</b>	
	Consumption	kWh/a	99	144	
	Pdesignc	kW	2.5	3.5	
	EER	W/W	4.63	3.95	
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W	5.1/ <b>A+++</b>	5.1/ <b>A+++</b>	
	Consumption	kWh/a	631	659	
	Pdesignh (average)	kW	2.3	2.4	
	COP <sup>1</sup>	W/W	4.74	4.26	
Moisture Removal		l/h	1.0	1.5	
Maximum Airflow (Cooling)	Indoor Unit	m <sup>3</sup> /min	13.1	13.1	
	Outdoor Unit	m <sup>3</sup> /min	45	45	
Sound Power	Indoor Unit (Cooling)	dB(A)	56	58	
	Outdoor Unit (Cooling)	dB(A)	59	62	
Sound Pressure	Indoor Unit Low/High	dB(A)	17 / 38	17 / 40	
	Outdoor Unit High	dB(A)	45	46	
Operating Temperature Range	Cooling	°C	-15-46	-15-46	
	Heating	°C	-30-24	-30-24	
<b>Electrical Data</b>					
Power Source		Φ, V, Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	
Compressor Type	Outdoor Unit	Type	Rotary	Rotary	
Power Input	Cooling	W	540	885	
	Heating	W	675	940	
Operating Current	Cooling	A	2.9	4.1	
	Heating	A	3.4	4.4	
<b>Dimensions</b>					
Net Dimensions (W x H x D)	Indoor Unit	mm	889 x 299 x 215	889 x 299 x 215	
	Outdoor Unit	mm	790 x 548 x 285	790 x 548 x 285	
Net Weight	Indoor Unit	kg	10.4	10.4	
	Outdoor Unit	kg	33	33	
<b>Refrigerant</b>					
Refrigerant	Type	R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 5 m)	kg	0.920	0.920	
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.62	0.62	
	Additional Refrigerant Charging	g/m	15	15	
Piping Connections	Liquid Pipe	ø, inch	1/4"	1/4"	
	Gas Pipe	ø, inch	3/8"	3/8"	
Piping Length	Min/Max (ODU to IDU)	m	3 / 15	3 / 15	
Piping Height	Max	m	8	8	
Piping Connections	Drain Pipe	ø, mm	ID 16	ID 16	

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

Indoor Unit		AR09TXCACWKNEE	AR12TXCACWKNEE
Outdoor Unit		AR09TXCACWKXEE	AR12TXCACWKXEE
<b>Functions</b>			
Airflow	WindFree™ Cooling	●	●
	Air Direction Control (Up/Down)	Auto	Auto
	Air Direction Control (Left/Right)	Auto	Auto
	Auto Fan Speed	●	●
Air Purification	Tri-Care Filter	●	●
	Easy Filter Plus	●	●
	Auto Clean (Self Cleaning)	●	●
Operating Mode	AI Auto with Wi-Fi & MDS (direct/Indirect)	●	●
	AI Auto with Wi-Fi	-	-
	Auto Mode (without Wi-Fi)	●	●
	Fast Cool	●	●
	Good Sleep	●	●
	Eco mode	●	●
	Dehumidification	●	●
	Fan	●	●
	Quiet	●	●
	Other Functions	Samsung SmartThings	●
MDS (Motion Detect Sensor)		●	●
Indoor Temperature Display		●	●
Display On/Off		●	●
Beep On/Off		●	●
Auto Changeover		●	●
Auto Restart		●	●

#### Accessory



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

<sup>2</sup> MIM-A00N Interface is required for the connection to wired remote controllers.

# SAMSUNG

## Climate Solutions



Learn more about Samsung Climate Solutions at:  
[www.samsung.com/climate](http://www.samsung.com/climate)

Copyright © 2023 Samsung Electronics Air Conditioner Europe B.V. All rights reserved. Samsung is a registered trademark of Samsung Electronics Co., Ltd. Specifications and designs are subject to change without notice and may include preliminary information. Non-metric weights and measurements are approximate. All data was deemed correct at the time of creation. Samsung is not liable for errors or omissions. Some images may be digitally altered. All brand, product, service names and logos are trademarks and/or registered trademarks of their respective owners and are hereby recognised and acknowledged.



Samsung Electronics Co., Ltd. participates in the Eurovent Certification Programme (ECP) for Air Conditioners (AC), Variable Refrigerant Flow (VRF) and Liquid Chilling Packages Heat Pump (LCP-HP). To check the ongoing validity of certification, please visit: [www.eurovent-certification.com](http://www.eurovent-certification.com)

**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