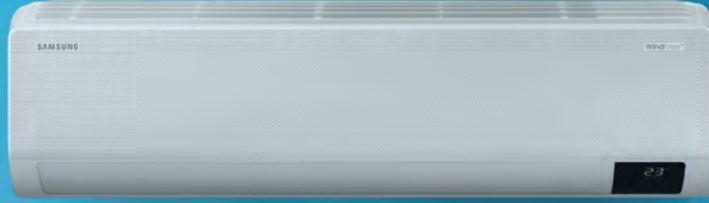


SAMSUNG



WindFree™

Heat Pumps





Comfort meets smart

At Samsung, we are dedicated to crafting heatpumps that reflect our unwavering commitment to innovation and quality. This has cemented our position as one of the world's foremost electronics brands and earned us a coveted spot on the Interbrand 2021 Best Global Brands list.¹

Our heatpumps systems are revered for their exceptional performance and dependability, making them the preferred choice across a diverse range of applications, including:

- Apartments
- Shopping centres
- Airports
- Stadiums
- Hotels

Through continuous investment in research and development, meticulous performance testing, and strict quality assurance procedures, our pursuit for perfection allows us to bring the finest heatpumps solutions to the market.

¹ Image for illustrative purposes only. Source: Interbrand Best Global Brands 2021 rankings.



Why choose Samsung?

01 AI Technology

AI Auto

Samsung's AI Auto feature utilises algorithms to analyse various factors influencing room conditions and requirements. Taking into account multiple inputs, such as preferred temperature settings, external weather data, and historical usage patterns, the algorithm accurately predicts the most appropriate mode for specific situations.

The AI Auto feature then transitions between WindFree™, Fast, and Normal modes for both heating and cooling. WindFree™ mode provides a gentle and uniform cooling distribution without any direct airflow for an extended period of time. Fast mode quickly adjusts the room temperature

to meet your immediate needs, while the Normal mode offers consistent and stable heating or cooling for everyday use.

By incorporating AI technology, our heatpump offers an intelligent heating and cooling solution, designed to enhance your comfort and optimise energy efficiency.



WindFree™ Good Sleep

WindFree™ offers a tranquil experience, operating quietly at only 23dB.¹ This offers the same benefits and convenience typically found in ducted systems, in a stylish split system design.

Unlike conventional heatpumps that blast cold air, WindFree™ Good Sleep mode provides a peaceful sleeping environment free from disruptive drafts

and uncomfortable airflow. By discreetly diffusing air through countless micro-holes, it consistently maintains a pleasant temperature throughout the night.

Our WindFree™ Good Sleep technology also significantly reduces energy consumption, saving 69%² more energy when compared to standard heatpumps running in normal wind mode.

Tri-Care Filter

Maintain pristine air quality and optimise the performance of your Heat Exchanger with the advanced Tri-Care Filter System. Its 3-layer filtration system includes a robust high-density filter designed to capture large dust particles, fibres, and pet hair. Additionally, the Zeolite Coating Filter effectively traps fine dust and neutralises various viruses, bacteria, and allergens.¹



Auto Clean

The Auto Clean function streamlines maintenance by automating the drying process of the Heat Exchanger through a 3 step process. It minimises moisture accumulation by recirculating air for 10-30 minutes,² which helps to reduce the growth of bacteria and unpleasant odours.

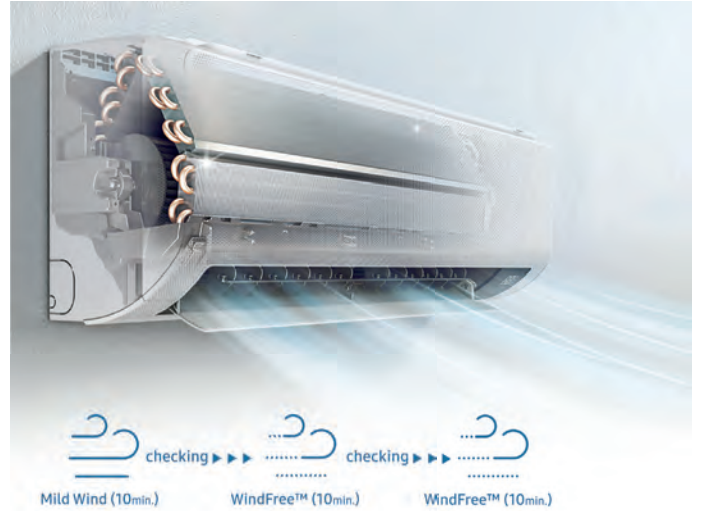


Image for illustrative purposes only. ¹Tested by Korea test lab for anti-bacteria and virus, Japan test lab for anti-allergy. Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use. ²The Auto Clean time will vary depending on the condition of the heatpumps.





02 Innovation

WindFree™ Cooling

Discover the serenity of Samsung's WindFree™ Cooling Mode. This technology cools larger spaces more efficiently and uniformly, providing an exceptional cooling experience. Once your ideal temperature is reached, the heatpumps vent closes, preserving the optimal climate through thousands of micro-holes.

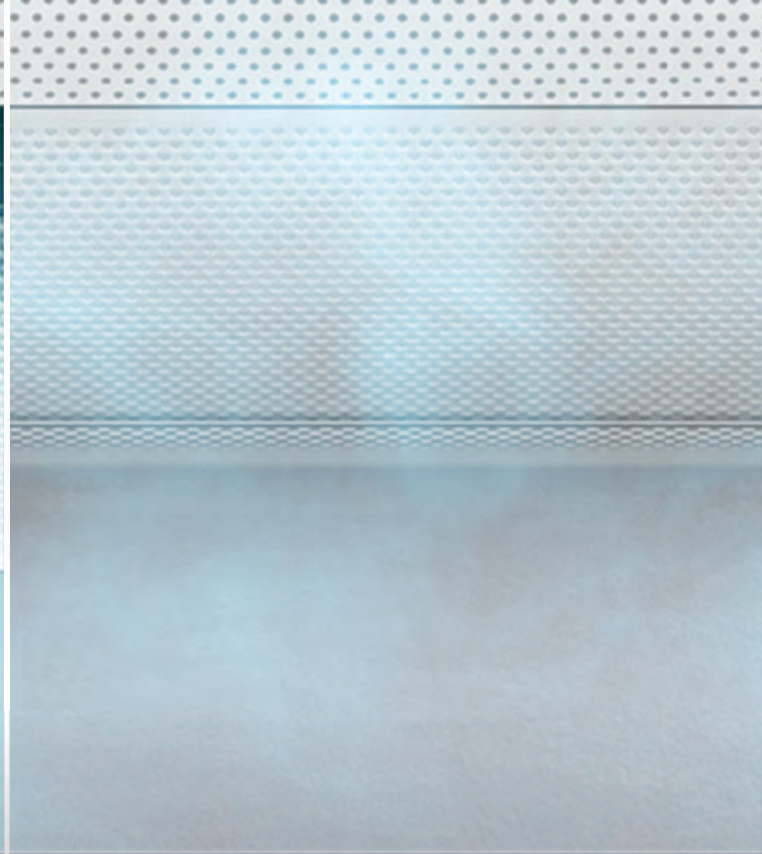
Fast Heating & Cooling

Heat and cool rooms quickly from corner to corner, so you're always comfortable.

Digital Inverter Boost technology cools the air 43% faster and warms the air 39% faster than our conventional model¹. Its advanced design also has a 15% larger fan, 18% wider inlet and a 31% wider blade. So your ideal temperature is dispersed farther and wider², reaching up to 15 meters to cover larger room sizes.

In accordance with the definition of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers), still air is an air flow moving at a speed of 0.15 m/s or slower, without creating cold drafts.

1. Tested on the AR12TXCAAWKEU model compared with the Samsung conventional AQ12EASER model, measuring the time taken to reduce the room temperature from 33°C to 25°C. 2. Tested on the AR24TX-FCAWKNEU model.



Set Temp. -----

Fast Cooling

Big blade cools air faster and better

WindFree™ Cooling

No cold draft and save up to 77% energy

03

Energy Saving

Experience energy efficiency with Samsung's WindFree™ mode, which consumes over 77%¹ less energy in-comparison to Fast mode. This uses minimal compressor Hz, closed indoor blades, and low RPM fan rotation, striking a balance between energy conservation and performance.

An independent comparative study conducted by Intertek - Total Quality Assurance provider - revealed significant reductions in energy consumption when our heatpumps operates at

minimum speed with WindFree™ Cooling versus maximum speed in Fast Cooling mode.

Our Digital Inverter Technology maintains the desired temperature without frequent cycling, minimising temperature fluctuations. Bolstered by robust neodymium magnets and a muffler for reduced noise and vibration, our system achieves remarkable energy savings of up to 73%² compared to conventional heatpumps that cycle frequently.

1. Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. WindFree™ Cooling mode. 2. Tested on the AR09TXCAAWKNEU model compared with the Samsung conventional model AQ09TSLXEA.



04 Connectivity

SmartThings

Connect and control from anywhere

Remotely control your Samsung heatpumps from anywhere using the SmartThings app. Turn it on or off, adjust settings and schedule operations remotely via Wi-Fi. Whether you forgot to turn off the heatpump before leaving home or want to prepare a refreshing environment before arriving, the SmartThings app keeps you connected and in control.

Smart home integration

The SmartThings app offers seamless integration with other compatible smart devices in your home. Coordinate your heatpumps with other appliances, such as lighting, to create a harmonious and complete smart home ecosystem.

Energy Monitor

Monitor your power consumption in real-time through the SmartThings app. Track your daily, weekly or monthly electricity usage and set energy consumption limits to efficiently manage your energy consumption.

Routine

Create custom 'routines' with the SmartThings app based on your active location and timing. For example, automate your heatpumps to switch to WindFree™ mode when you arrive home, or set it to turn off when you leave the house.

Available on Android and iOS devices. A Wi-Fi connection and a Samsung account are required. Some Wi-Fi models may not be able to use Energy Monitor function.



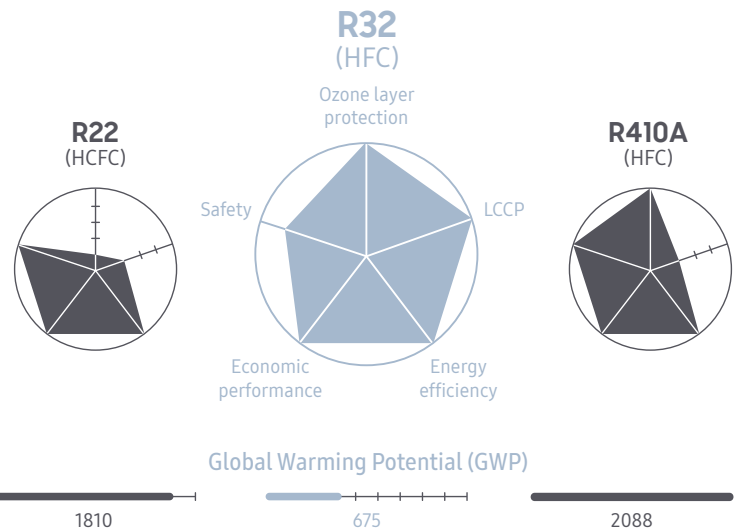
05

Sustainability

Refrigerant

Samsung has incorporated the R32 refrigerant into its heatpumps range to help reduce the effect on the ozone layer.

The R32 refrigerant exhibits a notably lower global warming potential (GWP) compared to traditional alternatives, making it a more sustainable choice for households and businesses alike.



Compared to traditional refrigerants like R410A, R32 has a considerably lower GWP and contributes less to the depletion of the ozone layer. However, individual results may vary depending on usage conditions and environment. Always consult a qualified HVAC technician for proper installation, maintenance, and disposal of heatpumps equipment containing refrigerants. The Global Warming Potential (GWP) is a measure of how much energy the emissions of 1 ton of gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO2)



10 Year Warranty
on Digital Inverter
Compressor

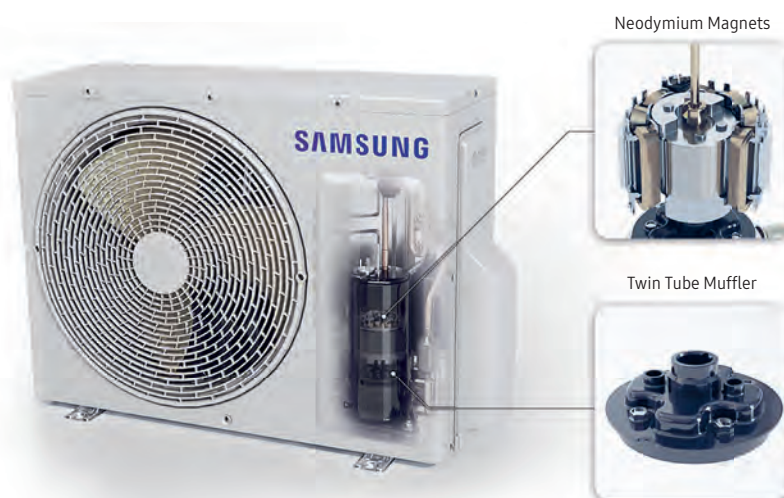
5 year parts warranty applicable only to inverter compressor.
Labour costs included. See full terms online.

Digital Inverter

Digital Inverter Technology combines speed, silence, and savings in a premium package thanks to our digitally optimised compressor.

Our heatpumps adapt swiftly to evolving conditions, ensuring a fast and responsive experience. Precise control over the compressor's speed, allows desired temperature maintenance without unwelcome fluctuations.

By finessing its speed, the compressor also has the ability to operate at low noise levels far lower than traditional heatpumps.



Specifications

Model Code	AR09BXECNWKNSA	AR12BXECNWKNSA	AR18BXECNWKNSA	AR24BXECNWKNSA	
Room size guide	Small: Up to 28m ²	Medium: 25 - 38m ²	Large: 35 - 55m ²	Very large: 48 - 72m ²	
Capacity	Cooling capacity	2.5kW	3.5kW	5.0kW	6.8kW
	Heating capacity	3.2kW	4.0kW	6.0kW	7.2kW
	Capacity (cooling, min - max)	0.96 ~ 3.35kW	0.99 ~ 4.0kW	1.6 ~ 6.7kW	1.4 ~ 7.6kW
	Capacity (heating, min - max)	0.72 ~ 5.0kW	0.74 ~ 5.5kW	1.3 ~ 8.0kW	1.2 ~ 9.4kW
Air purification	Tri-Care filter	Yes	Yes	Yes	Yes
	Easy Filter Plus (anti-bacteria)	Yes	Yes	Yes	Yes
	Freeze Wash	Yes	Yes	Yes	Yes
	Auto Clean (self cleaning)	Yes	Yes	Yes	Yes
Convenience	Built-in Wi-Fi (SmartThings)	Yes	Yes	Yes	Yes
	AI Auto Cooling	Yes	Yes	Yes	Yes
	Fast Cool	Yes	Yes	Yes	Yes
	Good Sleep	Yes	Yes	Yes	Yes
	Dehumidification	Yes	Yes	Yes	Yes
Refrigerant	Type	R32	R32	R32	R32
	Weight (kg)	0.95	0.95	1.15	1.15
Installation	Max. length (outdoor to indoor)	15	15	30	30
	Chargeless length (outdoor to indoor)	15	15	15	15
	Max. height (between ID/OD)	8	8	15	15
Energy efficiency	EER (cooling)	4.39W/W	3.80W/W	3.60W/W	3.30W/W
	COP (heating)	4.32W/W	3.81W/W	3.53W/W	3.27W/W
	Star rating (cooling - hot/average/cold)	4.5 / 4.5 / 4.5	4.0 / 4.0 / 4.5	3.5 / 3.5 / 3.5	3.0 / 3.0 / 3.0
	Star rating (heating - hot/average/cold)	3.5 / 3.0 / 2.5	3.0 / 2.5 / 2.0	3.0 / 2.0 / 1.5	3.0 / 2.0 / 1.5
Electrical data	Power source(Φ/V/Hz)	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Power	Current Input (Cooling - Min/Std/Max)	1.2 / 3.4 / 3.8A	1.3 / 4.5 / 5.0A	2.0 / 6.4 / 10.0A	2.0 / 9.7 / 11.5A
	Current Input (Heating - Min/Std/Max)	1.0 / 3.7 / 6.1A	1.0 / 5.1 / 6.8A	1.7 / 7.8 / 11.5A	1.7 / 9.8 / 14.5A
Indoor unit	Shipping dimension (WxHxD)	950 x 290 x 375mm	950 x 290 x 375mm	1115 x 290 x 375mm	1115 x 290 x 375mm
	Net dimension (WxHxD)	889 x 299 x 215mm	889 x 299 x 215mm	1055 x 299 x 215mm	1055 x 299 x 215mm
	Shipping weight	11.6kg	11.6kg	13.2kg	13.2kg
	Net weight (kg)	10.1kg	10.1kg	11.5kg	11.6kg
	Noise level (high/low)	38 / 17dBA	40 / 17dBA	41 / 25dBA	45 / 26dBA
Outdoor unit	Shipping dimension (WxHxD)	913 x 622 x 371mm	913 x 622 x 371mm	1023 x 724 x 413mm	1023 x 724 x 413mm
	Net dimension (WxHxD)	790 x 548 x 285mm	790 x 548 x 285mm	880 x 638 x 310mm	880 x 638 x 310mm
	Shipping weight	31.9kg	31.9kg	43.1kg	46.2kg
	Net weight (kg)	29.8kg	29.8kg	39.5kg	43.2kg
	Noise level (high/low)	45dBA	46dBA	51dBA	54dBA
Technical information	Piping length (max)	15m	15m	30m	30m
	Piping height (max)	8m	8m	15m	15m
	Connection size (liquid)	6.35	6.35	6.35	6.35
	Connection size (gas)	9.52	9.52	12.7	15.88
Operating range	Low ambient (cooling)	-10 ~ 46°C	-10 ~ 46°C	-10 ~ 46°C	-10 ~ 46°C
	Low ambient (heating)	-15 ~ 24°C	-15 ~ 24°C	-15 ~ 24°C	-15 ~ 24°C

1. Specification may be subject to change without prior notice. 2. Performance is based on the following test conditions: Cooling: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB. Heating: Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB. Equivalent refrigerant pipe length 5m, Level differences 0m. 3. Select wire size based on maximum current amps and in accordance with local electrical regulation standards. 4. Sound pressure level is obtained in an anechoic room. The sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure levels may differ depending on operation conditions.

This information should be used as a guide only. There are many variables that will affect the requirements of your heatpumps, such as orientation, usage, dimensions, construction materials, insulation, equipment, heat loads, etc. For cooling, if your room is a warm room with a lot of sun exposure during summer, then it is recommended that you use the smaller room size as your guide.

