

**SAMSUNG**



2020 Samsung

## **Wind-Free™ Air Conditioner and Air Purifier Catalogue**



# Advanced Cooling for a Better Life

Samsung air conditioners enrich your life. Our innovative cooling technology not only cools you down faster, but also saves energy. In addition, the advanced filter system makes your environment more comfortable. Discover a new way of life that is cool, fresh and convenient with Samsung air conditioners.







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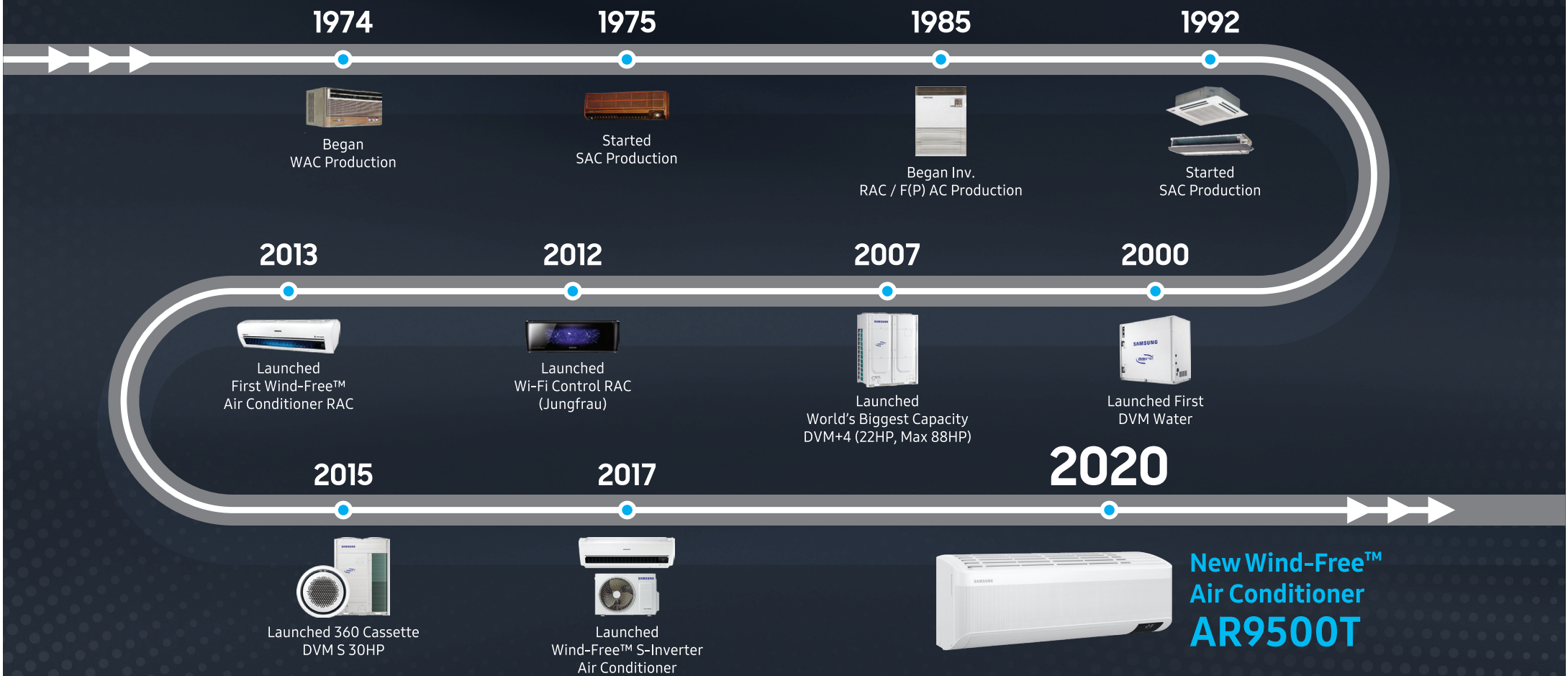
## Air Purifier

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# Innovation Milestones

Samsung has been manufacturing air conditioners and challenging the status quo of the industry for over 40 years. Thanks to cutting-edge innovations in design and technology, we will continue to aspire to be a leader in the cooling and heating industry in the years to come.





# Worldwide Recognition

Samsung air conditioners are recognized as world-leading products, having won various global for our stunning design and advanced performance.



## Efficiency & Innovation 2018

Organized by Fiera Milano International, 40<sup>th</sup> Mostra Convegno Expocomfort 2018 aimed to reward the best product that shows a high level of energy efficiency and innovation, providing a complete overview of the sector along the lines of "Efficiency & Innovation Path". And the Samsung Digital Inverter 8-Pole have been recognized in MCE's "Beyond Class A" initiative for product excellence.



## International Design Excellence Awards 2017

Started in 1980 by The Industrial Designers Society of America (IDSA), the International Design Excellence Awards (IDEA) fosters business and public understanding about the impact of design excellence on the quality of life and the economy. The IDEA program is considered the preeminent design competition with entries from over 39 countries. The Samsung floor standing air conditioner received the Silver award in 2017.



## CES Innovation Awards 2017

The CES Award is given to products submitted to CES based on product design and technological innovation. The award is jointly evaluated by the US industrial design association and USA CEA (Consumer Electronics Association). The Samsung air conditioner AR9500M received the 2017 CES innovation honoree with its innovative Wind-Free™ Cooling Technology.



## iF Product Design Awards 2017

As one of the world's oldest and most prestigious design competitions, the iF product design award has stood for qualitatively outstanding design awards for over 50 years. And the Samsung air conditioner, with its design innovations, was selected as a finalist in 2017. Samsung air conditioner continues to receive worldwide recognition and awards, proving the high quality of its functions and beauty.



# Protecting the Environment

Samsung endeavours to comply with international environmental standards, European and national laws and regulations across its global business operations. Samsung will actively attempt to minimise the generation of harmful materials, utilise resources efficiently and recycle waste products for the benefit of the environment. Samsung will do its best to conduct environmental improvement activities across all product development, production, distribution, sales and disposal processes.

## Addressing Global Warming with R32 Refrigerant

Following the introduction of EU legislation on the reduction of F-gas emissions, Samsung presents a new range of air conditioners for 2019 across Residential (RAC), Commercial (CAC) and Multi Split (FJM) models. All feature R32 refrigerant. R32 has a Global Warming Potential (GWP) of 675, which is significantly lower than the GWP of R410A (2088). These new products are more environmentally friendly than their R410A-based predecessors.

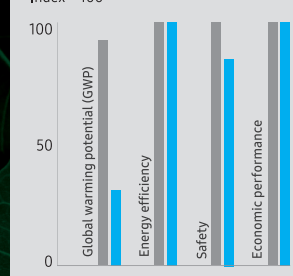
While refrigerants are an essential part of air conditioning, R32 reduces environmental impact by 68%\* in comparison with R410A (if leaked into the atmosphere), is non-toxic and easy to recycle. It has an Ozone Depletion Potential (ODP) of zero, a high refrigeration capacity and thermal conductivity, meaning maximum efficiency and a 30% reduction in charging volume.

\*Comparison between R410A and R32 GWP figures as per reporting from the European Commission.

### Environmental impact: R410A compared to R32

■ R410A (HFC) : Refrigerants currently used in industrialised countries  
■ R32 (HFC) : Next-generation refrigerants

Index = 100



## Making Energy Efficiency Clear

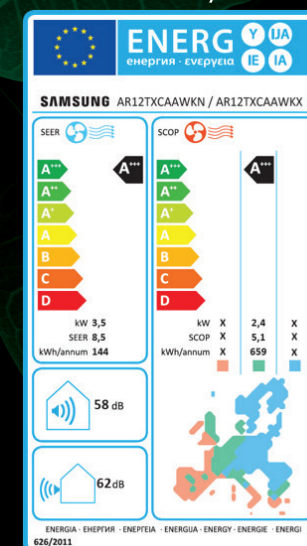
Since 1st January 2013, all air conditioners with a rated capacity of ≤ 12 kW for cooling or heating have featured an energy label indicating their energy efficiency in compliance with EU Regulation No. 626/2011 (Lot 10). As of January 2019, the energy efficiency scale has changed: the new range will be from A+++ to D, with A+++ being the most efficient and D being the least efficient.

The energy label should provide minimum necessary information such as the product model code, energy efficiency class, average annual energy consumption, SCOP and/or SEER values and noise level. The energy efficiency class is determined by measurements and calculations and should fall within the ranges indicated by the table below.

Energy Efficiency Class	SEER (Cooling)	SEER (Heating)
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80

\*Except single duct and double duct air conditioners.

### New Energy Label as of January 2019

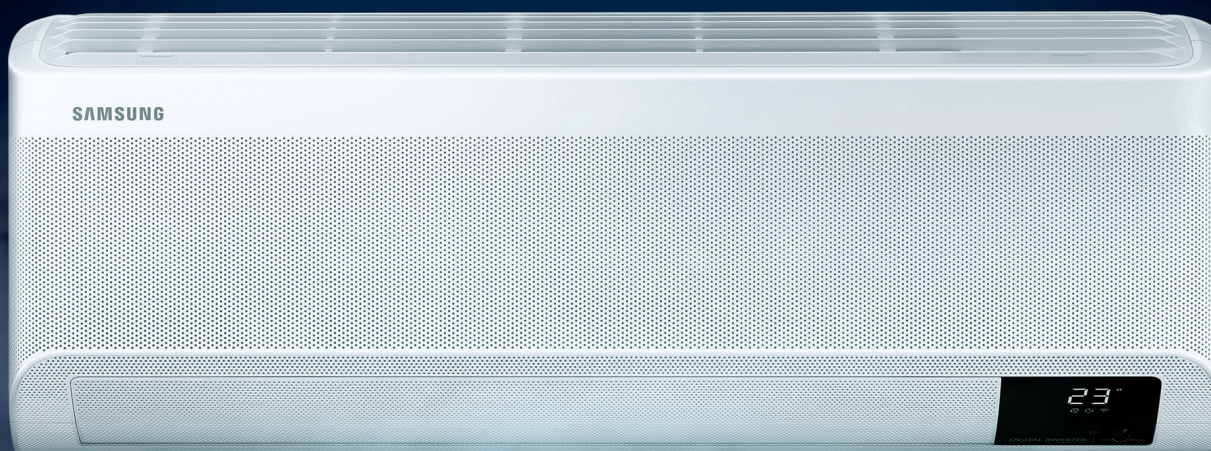


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626/2011



# Wind-Free™ Cooling

Stay comfortably cool without unpleasant direct wind.



Stay feeling comfortably cool with Wind-Free™ Cooling. It cools gently and quietly without the unpleasant feeling of cold wind on your skin, as it disperses air through 23,000 micro air holes. It creates a “Still Air” environment<sup>1</sup> with very low air speed and much less noise<sup>2</sup>. Its advanced airflow structure also means it cools a wider and larger area more evenly. And it consumes 77% less energy<sup>3</sup> than Fast Cooling mode<sup>4</sup> so you can stay comfortably cool without worrying about electricity bills.

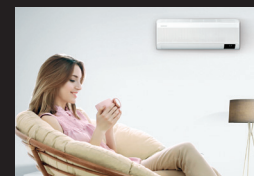
<sup>1</sup> ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines “Still Air” as air currents at speed below 0.15m/s which lacks the presence of cold drafts.

<sup>2</sup> Tested on the AR12TXCAAWKNEU model. Wind-Free™ mode generates only 23dB of noise, compared to 26dB with the Samsung conventional model.

<sup>3</sup> Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. Wind-Free™ Cooling mode.

<sup>4</sup> Tested on the AR12TVEAAWKNAP model, based on the power consumption of Fast Cooling mode vs. Wind-Free™ Cooling mode.

## Comfortable Cooling



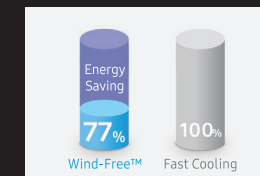
When it reaches the target temperature it automatically changes the mode to Comfort Cooling, which blows the air gently and adjusts the angle of the blades upwards, so it keeps you comfortable without feeling cold.

## Low Noise



Cool your living spaces with less noise, so it doesn't disturb you. The compressor creates a powerful airflow, but works really quietly as it includes a Twin Tube Muffler. It reduces the refrigerant flow noise when operating at high speed and minimizes ambient noise during low speed operation.

## Energy Saving



The Wind-Free™ Cooling mode consumes 77% less energy than Fast Cooling mode. With Wind-Free™ Cooling, the compressor operates at its minimum Hz to maintain the desired temperature, and the fan motor of the indoor also rotates at the minimum RPM. So, you can stay comfortably cool without worrying about electricity bills.

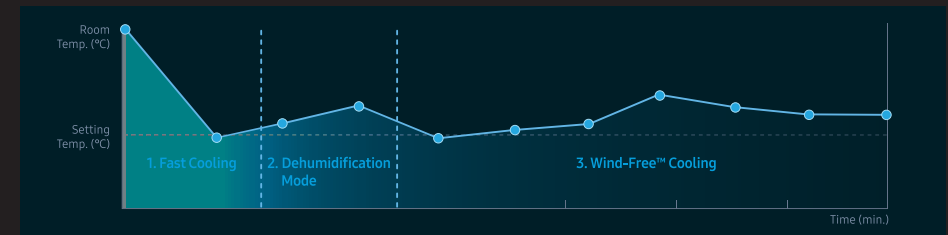


# AI Auto Cooling

Automatically optimizes the cooling by analyzing your usage behavior and living conditions.



Experience an intelligent way of living with AI Auto Cooling\*. To make life simpler and more efficient, it automatically optimizes the various modes by analyzing the room conditions and your usage patterns\*\*. Based on your preferred temperature and the outside temperature, it automatically switches to the most appropriate mode, including Wind-Free™, Fast and Normal Cooling, to maintain the optimal room conditions and keep you feeling comfortable.



1. Cools down the room fast with Fast Cooling mode.
2. Setting the optimum humidity with Dehumidification mode.
3. Once reached the set temperature, automatically changes to Wind-Free™ mode to maintain the desired temperature.

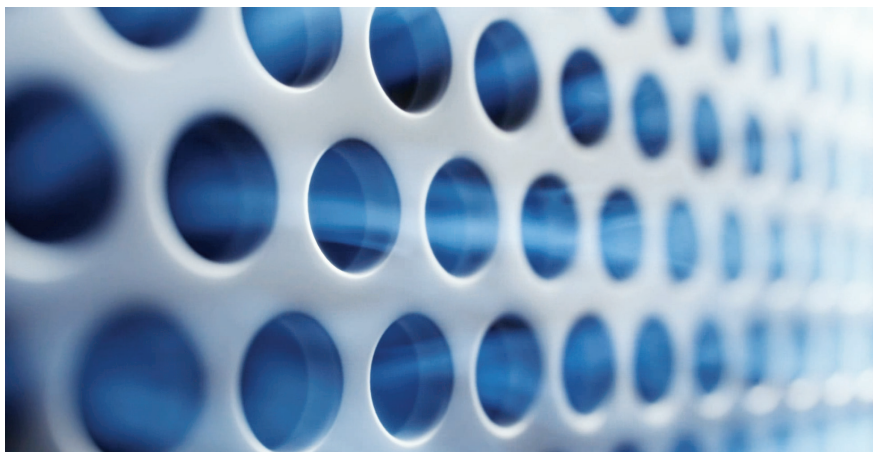
\*A Wi-Fi connection and a Samsung account are required.  
\*\*Stores user data, preferences and usage patterns to suggest the most useful options.



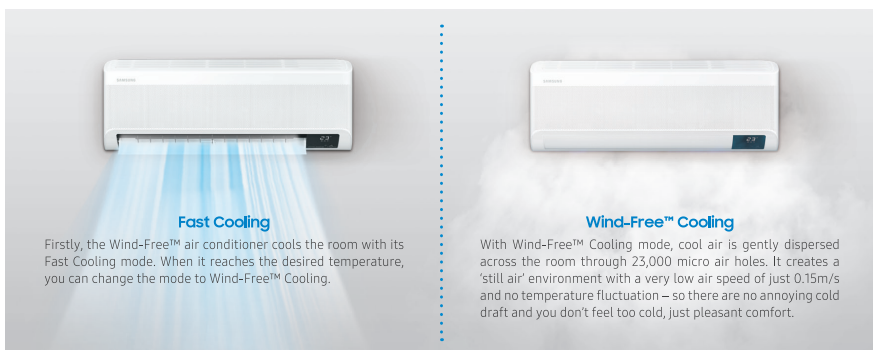
# Cooling Performance

## Wind-Free™ Cooling

Get cool fast, stay cool without direct wind.



23,000 Micro air holes

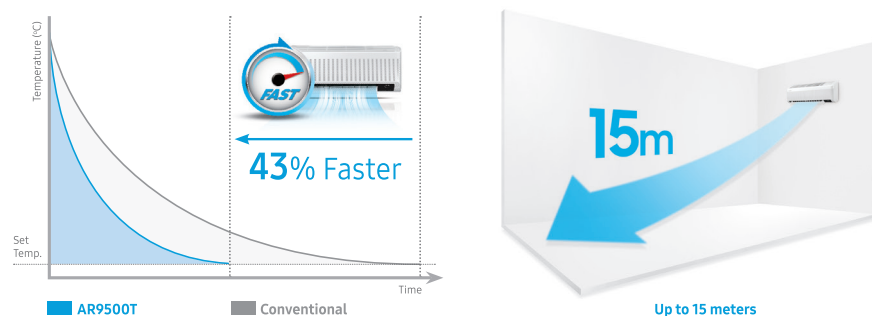
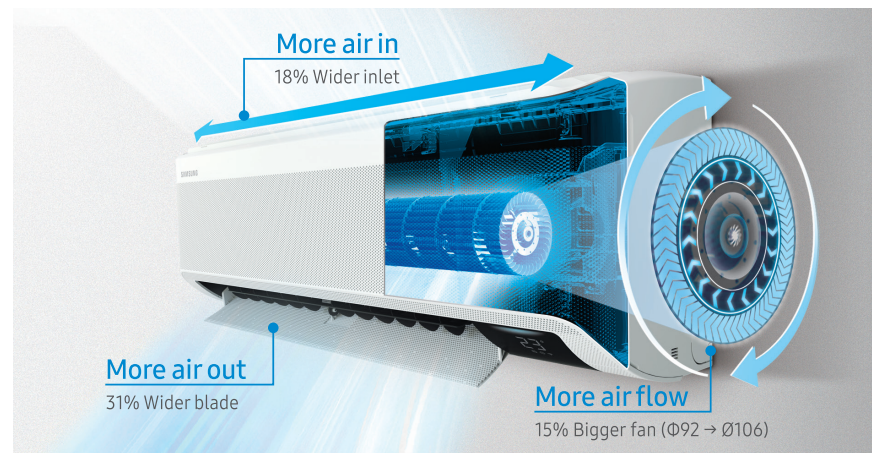


Stay feeling comfortable cool with Wind-Free™ Cooling. It cools gently and quietly without the unpleasant feeling of cold wind on your skin, as it disperses air through 23,000 micro air holes. It creates a “Still Air” environment\* with a very low air speed and much less noise\*\*. Its advanced airflow structure also means it cools a wider and larger area more evenly. And it consumes 77% less energy than Fast Cooling mode\*\*\* so you can stay comfortably cool without worrying about electricity bills.

\*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.  
\*\*Tested on the AR12TXCAWKNEU model. Wind-Free™ mode generates only 23dB of noise, compared to 26dB with the Samsung conventional model.  
\*\*\*Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. Wind-Free™ cooling mode.

## Fast Cooling

Cools 43% faster\* from corner to corner, so you always feel cool.



Cool rooms quickly from corner to corner, so you're always comfortable whenever you want and wherever you are. Powerboost with Digital Inverter Boost technology dramatically shortens the time it takes for the compressor to reach maximum power when it starts operating, so it cools the air 43% faster\*. Its advanced design also has a 15% bigger fan, 18% wider inlet and a 31% wider blade. So cool air is dispersed farther and wider into every corner of a room, reaching up to 15 meters\*\*.

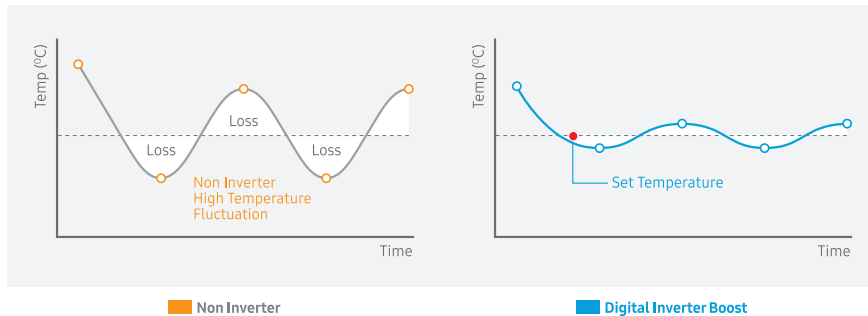
\*Tested on the AR12TXCAWKNEU model compared with the Samsung conventional model AQ12EASER.  
\*\*Tested on the AR24TXCAWKNEU model.



# Energy Saving

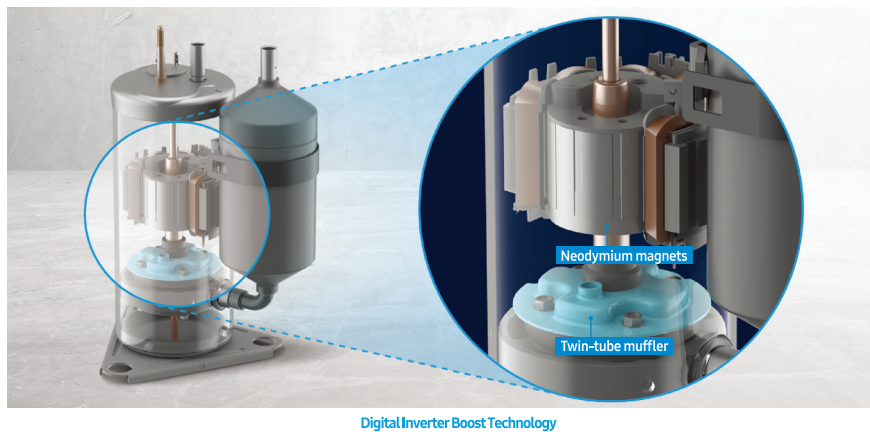
## Digital Inverter Boost

Energy saving up to 73% by Digital Inverter Boost Technology.



Save money everyday with highly energy-efficient Digital Inverter Boost technology. Unlike conventional fixed-speed compressors, it maintains the desired temperature without frequently turning on and off, so there's less fluctuation. It also uses strong magnets made of neodymium and includes a muffler, so it works efficiently and produces less noise and vibration. And it optimizes power usage when cooling, which reduces energy consumption by up to 73%\*.

\*Tested on the AR09TXCAAWKNEU model compared with the Samsung conventional model AQ09TSLXEA.



It also uses strong magnets made of neodymium and includes a twin-tube muffler, so it works efficiently and produces less noise and vibration. And it optimizes power usage when cooling, which reduces energy consumption by up to 73%\*.

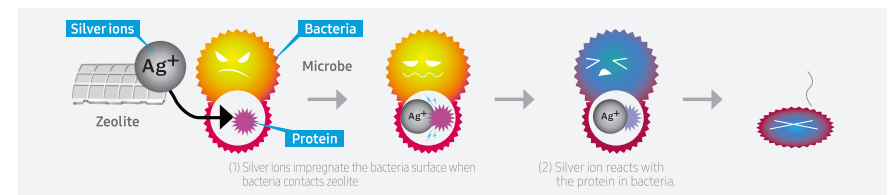
\*Tested on the AR09TXCAAWKNEU model compared with the Samsung conventional model AQ09TSLXEA.

The above is merely for reference, specifications are subject to change without prior notice.

# Air Care

## Easy Filter Plus

Easy to clean filter.



### Antibacterial process

Keep your air conditioner working efficiently with less effort. The Easy Filter Plus is located outside, on the top, so it can easily be taken out and cleaned. Its dense mesh keeps the Heat Exchanger clean and an anti-bacterial coating helps protect you against dangerous airborne contaminants\*.

\*Tested on certain bacteria in Korea test lab. Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use.

## Tri-Care Filter\*

Keeps your air hygienic by capturing dust, viruses, bacteria and allergens.



Keep the air hygienic and maintain the Heat Exchanger's performance with a Tri-Care Filter. Its 3-layers include a high-density filter that extracts large dust particles, fibers and animal hairs. A Zeolite Coating Filter also captures fine dust, and reduces certain viruses, bacteria and allergens.

\*For Wind-Free™ Premium Plus only.

\*\*Tested by Korea test lab for anti bacteria & virus and Japan test lab for anti allergy Data has been measured under specific testing conditions for tested bacteria/virus/allergens and may vary depending on environmental factors and individual use.

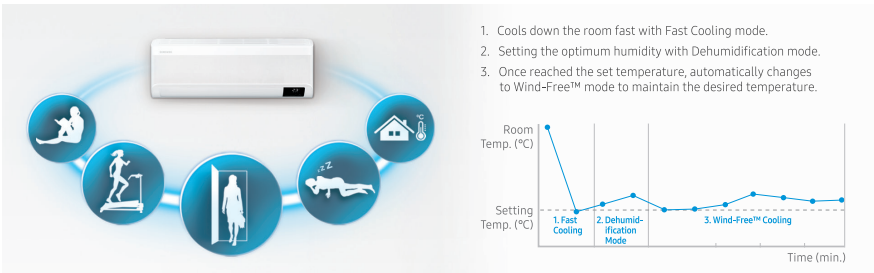
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# Smart Functionality

## AI Auto Cooling\*

Automatically optimizes the cooling by analyzing your usage behavior and living conditions.

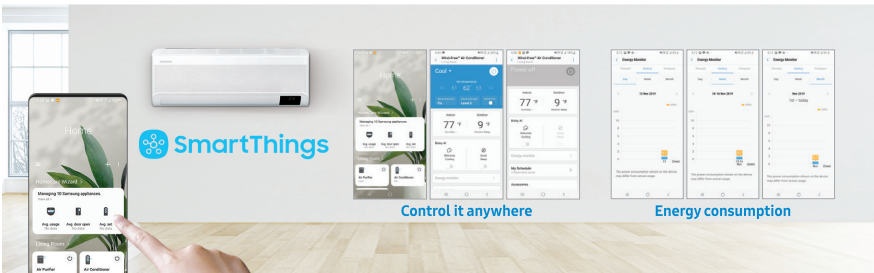


Experience an intelligent way of living with AI Auto Cooling\*\*. To make life simpler and more efficient, it automatically optimizes the various modes by analyzing the room conditions and your usage patterns\*\*\*. Based on your preferred temperature and the outside temperature, it automatically switches to the most appropriate mode, including Wind-Free™, Fast and Normal Cooling, to maintain the optimal room conditions and keep you feeling comfortable.

\*For Wind-Free™ Premium Plus only.  
\*\*A Wi-Fi connection and a Samsung account are required.  
\*\*\*Stores user data, preferences and usage patterns to suggest the most useful options.

## SmartThings\*

Control the air conditioner remotely and with your voice.

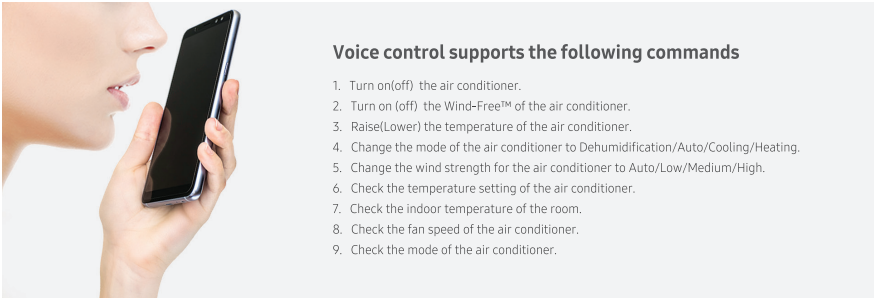


Control the temperature in your home anytime and anywhere. Using the SmartThings App\*\* you can remotely control and monitor the air conditioner with just a touch. Or simply tell the voice control artificial intelligence (AI) system\*\* what you want\*\*\* and it does it. It even suggests the best settings.

\*For Wind-Free™ Premium Plus only.  
\*\*Available on Android and iOS devices. A Wi-Fi connection and a Samsung account are required.  
\*\*\*Voice control supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian and Spanish. Portuguese will also be supported by the end of 2020.

## Voice Control\*

Control the temperature anytime and anywhere with voice control.



\*For Wind-Free™ Premium Plus only.



# Durability

## Triple Protector Plus

Delivers a long-lasting performance with advanced durability and protection from power surges, without a voltage stabilizer\*.



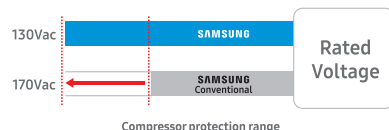
### 1. Compressor protector

Samsung advanced compressor protects itself from unstable electrical conditions and is also until 130Vac, compared to a conventional 170Vac.

\*Normal Working Range : 187Vac ~ 265Vac.

\*The voltage value may different because the voltage ripple value is different depending on the load.

\*Tested on the AR12TXEAAWKNEU model compared with the Samsung conventional model AS18FCMID.



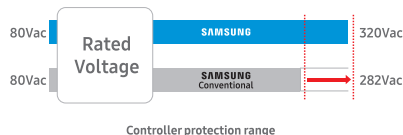
### 2. Controller protector

Samsung advanced compressor protects itself from unstable electrical conditions and is also until 130Vac, compared to a conventional 170Vac.

\*Normal Working Range : 187Vac ~ 265Vac.

\*The voltage value may different because the voltage ripple value is different depending on the load.

\*Tested on the AR10TYCABWKNEU model compared with the Samsung conventional model AS18FCMID.



### 3. Fin protector

Multi Channel Condenser are designed with strong corrosion-resistant material to protect them from rusting. And the made thicker, so it can ensure harsher conditions.

\*Tested on the AR10TYCABWKNEU model compared with the Samsung conventional model AS18FCMID.



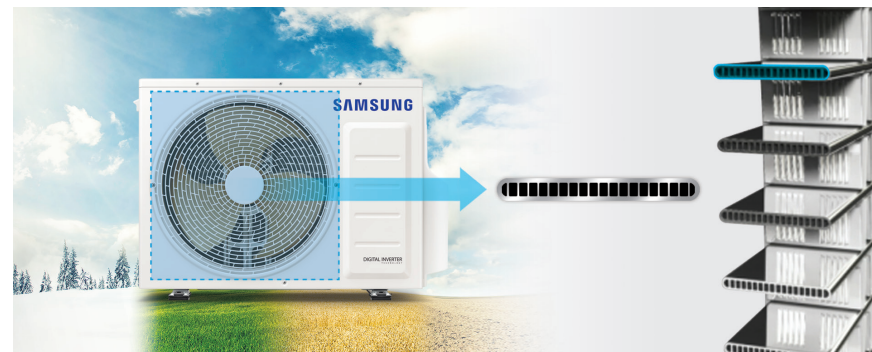
Enjoy a long-lasting performance even in the most challenging environments. Triple Protector Plus technology prevents the compressor and controller from being overloaded by power surges or damaged by fluctuating electrical currents, without a separate voltage stabilizer\*. The air conditioner is also designed to provide advanced durability. Its anti-corrosion coating stops the condenser from corroding and the cabinet from rusting, and the cabinet is thicker, so it can endure harsh conditions.

\*Tested on the AR12TXEAAWKNEU model compared with the Samsung conventional model AS18FCMID.

The above is merely for reference, specifications are subject to change without prior notice.

## DuraFin™

Maintains the performance and efficiency of the heat exchanger without becoming corroded.

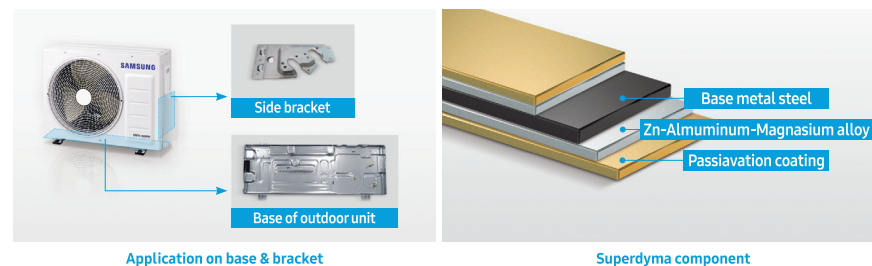


Enhance the performance and efficiency of the Heat Exchanger using the DuraFin™. It is made of a much denser material and is thicker in design. Its improved coating also has more corrosion resistance. So it passes the accelerated Sea Water Acetic Acid Test (SWAAT) for corrosion over 100 days\*.

\*Based on the AR13TYHYBWKNEU model compared with the Samsung conventional model AR18JRFNFWK.

## Superdyma

Superdyma for corrosion-resisting of outdoor unit.



Superdyma is a highly corrosion-resisting, alloy-coated steel sheet, consists of Zn, Al and Mg. It is 5 times more corrosion-resistant than conventional GI.

The above is merely for reference, specifications are subject to change without prior notice.



# Additional Features

## Auto Clean

Keeps the inside of the air conditioner clean and hygienic.



Keep the inside of your air conditioner hygienic without much effort at all! After it's been working, the Auto Clean function automatically dries the Heat Exchanger using a 3-step process. It removes moisture by blowing air for between 10 to 30 min. So it prevents the build-up of bacteria and odors.

\*Only available in Wind-Free™ models that have a humidity sensor.

## Wind-Free™ Good Sleep

Provides the right temperature with Wind-Free™ cooling to help you sleep more comfortably.



Get a really good night's sleep every night. The Wind-Free™ Good Sleep mode creates the ideal climate in your bedroom for sleeping – without an unpleasant cold air flow and using less energy compared to the Fast cooling mode. Its temperature control with Wind-Free™ cooling keeps you comfortable throughout the night. So you fall asleep fast, sleep deeply and comfortably, and wake up feeling fully refreshed and ready for a new day. And you may gain precious minutes of potentially lost sleep.

The above is merely for reference, specifications are subject to change without prior notice.

## Usage

Display energy consumption 0.1 ~ 99kWh. Energy consumption (used time) is calculated from the moment turning on.



## Display Off

Display lighting can be turned off using remote controller.



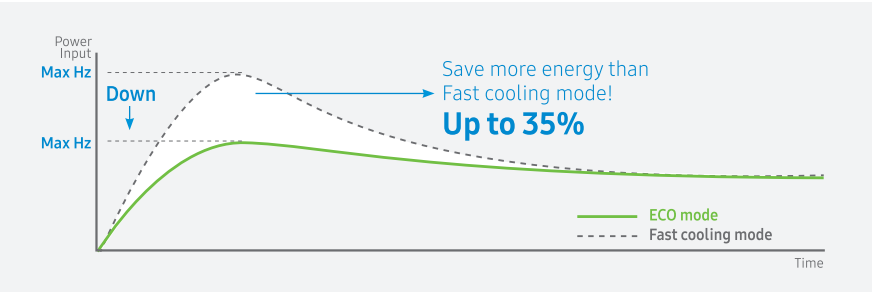
The above is merely for reference, specifications are subject to change without prior notice.



# Additional Features

## Eco Mode

Save energy, even when you're alone.

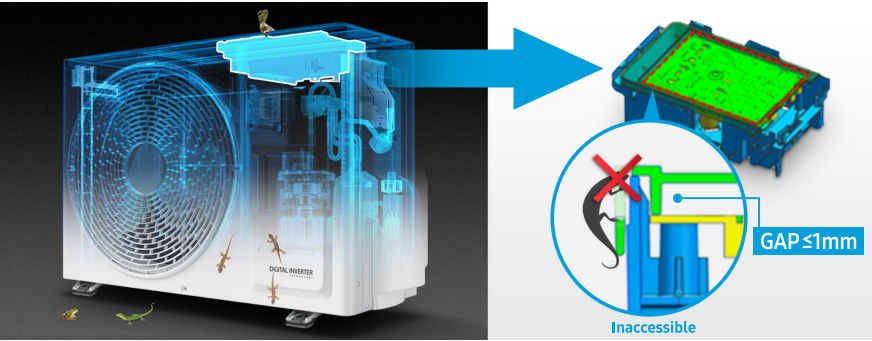


Save energy, but still stay cool. The ECO mode uses less compressor capacity compared to Fast cooling mode. This reduces energy consumption compared to conventional models\*, while still providing a cool and comfortable environment. It lets you cool efficiently when it's not too hot outside or just save energy and money at any time, so you don't have to worry about your electricity bills. And it even helps to avoid overloading your local electricity network during a hot summer.

\*Tested on AR07T9170HA3, based on the power consumption of Fast Cooling mode vs. ECO mode.

## Lizard Care

Anti-lizard outdoor structure to protect PBA.



Rib design structure with gaps smaller than 1mm prevents small animals from invading inside the PBA. (Printed Board Assembly)

The above is merely for reference, specifications are subject to change without prior notice.

## 10 Year Warranty Compressor

The Digital Inverter Compressor provides more credible durability with its 10 year warranty.



Even more guaranteed with 10 year warranty on the Digital Inverter Compressor.

\*The warranty policy may vary based on the model & region.

## Durable in High Temperature

Digital Inverter with durable compressor, it can maintain cooling performance even at 68°C.



Samsung Digital Inverter with durable compressor, it can maintain cooling performance even at 68°C\*\*. So, you can stay comfortably cool without worrying about malfunctions due to extreme heat.

\*Only for extreme climate region.

\*\*Based on internal testing of compressor UG9TK3150F and UG91TK2150F.

The above is merely for reference, specifications are subject to change without prior notice.

# Additional Features

## 4-Way Swing\*

Control the wind direction Up/Down, Left/Right using remote controller. Control the wind to your desired location.



\*May differ based on the model & region. Wind-Free™ Premium Plus : Auto Up/Down/Left/Right. S-Inverter Premium : Auto Up/Down, Manual Left/Right.

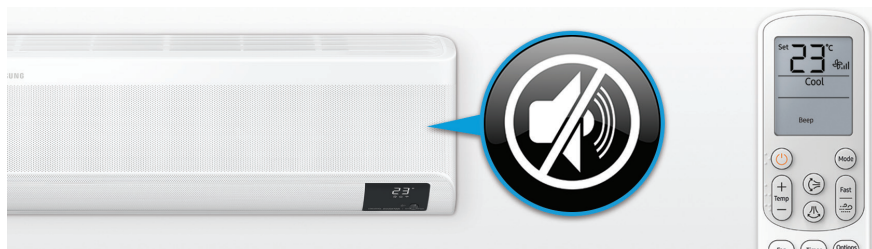
## Temperature Display

A numerical and intuitive icon display helps you know the temperature and functions easily.



## Beep Off

Beep sound from the indoor unit can be muted using remote controller.



The above is merely for reference, specifications are subject to change without prior notice.

## HD Filter

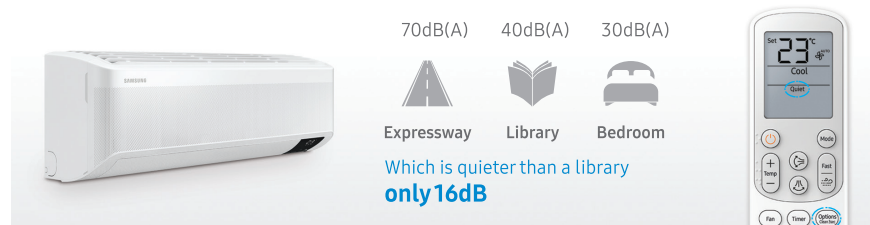
Prevents fine dust particles and allergens from spreading out in the air.



Make sure that the air you breathe is always clean and fresh. The HD Filter is really effective at capturing dust, airborne contaminants and allergens, such as pollen, mold spores and pet dander. And it's also washable, so all you need to do is give it a quick rinse in water and then reuse it.

## Quiet Operation

Samsung air conditioner work much more smoothly and quietly its stable operation produces less vibration and noise.



## Wind-Free™ Dry Mode\*

When the humidity is high, keep the air in the room comfortable with Wind-Free™ Dry mode.



When the humidity is high, Press 'Dry' mode. Using a humidity Sensor, it helps effectively dehumidify. If you add 'Wind-Free™' button on your remote controller, You can experience dehumidification without chilly wind.

\*For Wind-Free™ Premium Plus only.

The above is merely for reference, specifications are subject to change without prior notice.



# Installation

## Easy to Install and Service

Simple modular design.



A3050



Screw points



Need special tool

A conventional bracket has to be fitted precisely on two fixed hooks. So you have to find the right location to hang it.



AR9500T



No screw points



No need special tool

Samsung's roller type bracket makes mounting the unit much easier. Simply hang it on the unit and find the best place to install it by sliding the bracket from side to side.

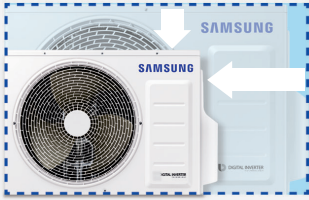
Assembled parts (6) / Screw points (5)  
Installing time : 9.3 min

**45%**

Assembled parts (3) / Screw points (2)  
Installing time : 5.1 min

## Easy to Carry


Lighter weight outdoor unit makes it easier to carry and install.




Compact outdoor unit

Volume 104.6m<sup>3</sup> **27%** ↓ Volume 75.9m<sup>3</sup>

Weight 27.6KG **18%** ↓ Weight 22.6KG



A3050 (828\*267\*265)



AR9500T (820\*299\*215)

Volume 58.6m<sup>3</sup> **10%** ↓ Volume 52.7m<sup>3</sup>

Weight 9.4KG **5%** ↓ Weight 8.9KG

\* Compared AR12TXFYAWKXEU model with AR12NXFHBWKXEU, Net size based.

\* Compared AR12TXFCWKXEU model with AR12NXWCWKXEU, Net size based.

## Smart Install

Check for installation status to find out if there is any problems with any of the functions.



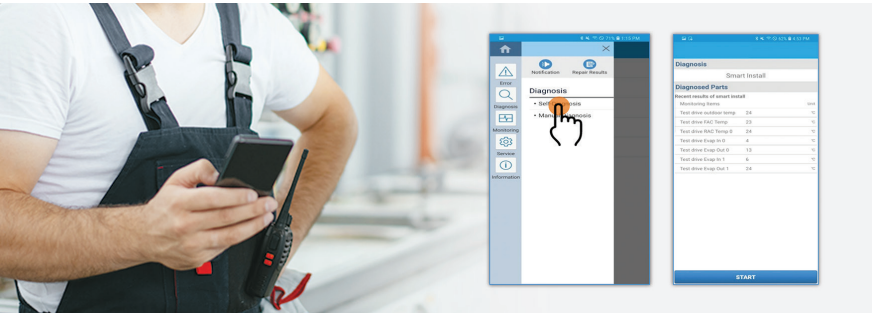
**Smart install check**

- Communication error between Indoor and outdoor units.
- Check service value.
- Check whether there is refrigerant flow or not

\* To use Hass Application for Non WIFI model, installers have to buy cables to connect product.

## HASS

HASS application on your smartphone will help make your repairs easier.



When it broke down and Installer need to check in detail, HASS application on your smartphone will help make your repairs easier.

## 2020 AIR CONDITIONER SPECIFICATIONS



Wind-Free™ Premium Plus

			Indoor Model Code	AR10TYEAJWKNNME	AR13TYEAJWKNNME	AR18TYEAJWKNNME	AR24TYEAJWKNNME
			Outdoor Model Code	AR10TYEAJWKXME	AR13TYEAJWKXME	AR18TYEAJWKXME	AR24TYEAJWKXME
				1.0HP	1.5HP	2.0HP	2.5HP
Performance	Capacity	Cooling (Min - Max)	Btu/h	9000 (3000 - 11500)	12000 (3000 - 13600)	18000 (5200 - 22500)	21500 (5000 - 25000)
		Cooling (Min - Max)	kW	2.64 (0.88 - 3.37)	3.52 (0.88 - 3.99)	5.28 (1.52 - 6.59)	6.30 (1.47 - 7.33)
EER			W/W	3.77	3.35	3.47	3.41
CSPF				5.50	5.30	5.33	5.30
Energy Grade				5 Star	5 Star	5 Star	5 Star
Air Circulation			Max, m³/min	10.7	11.7	17.9	17.9
Moisture Removal			l/hr	1.0	1.5	2.0	2.5
Noise Level Pressure		Indoor High/Low	dB(A)	39/20	40/20	43/26	45/30
		Outdoor High	dB(A)	48	48	52	52
Electrical Data							
Energy Efficiency		Operating Current		3.8	5.2	7.2	8.5
		Power Consumption		700	1050	1520	1850
Power Source			V/Hz/Φ	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P
Physical Specification							
Net Dimension (WxHxD)		Indoor	mm	820 x 299 x 215	820 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215
		Outdoor	mm	660 x 475 x 242	660 x 475 x 242	790 x 548 x 285	880 x 638 x 310
Net Weight		Indoor	kg	8.9	8.9	11.4	11.6
		Outdoor	kg	20.1	20.1	29.9	35.6
Technical Information							
Piping Length & Height		Piping Length	Max, m	15	15	30	30
		Piping Height	Max, m	8	8	15	15
Refrigerant Type		Type		R32	R32	R32	R32
		Charge	Kg	0.5	0.5	0.73	0.80
SVC Valve		Liquid (OD) mm	mm	6.35	6.35	6.35	6.35
		Gas (OD) mm	mm	9.52	9.52	12.70	15.88
General Feature							
Air Flow	Wind-Free		•	•	•	•	•
	Air Direction Control	Up/Down	Auto	Auto	Auto	Auto	Auto
		Left/Right	Auto	Auto	Auto	Auto	Auto
	Air Flow Control Step (Cool/Fan)		5/4	5/4	5/4	5/4	5/4
Air Purification	Auto Fan Speed		•	•	•	•	•
	Easy Filter Plus	Anti-Bacteria	•	•	•	•	•
	Tri-Care Filter	Anti-Bacteria/Anti-Virus/Anti-Allergy	•	•	•	•	•
	Auto Clean (Self Cleaning)		•	•	•	•	•
Convenience	SmartThings		•	•	•	•	•
	Filter Cleaning Indicator		•	•	•	•	•
Operating Range	Temperature	°C	16-46	16-46	16-46	16-46	16-46
	Auto Mode	AI Auto with Wi-Fi	•	•	•	•	•
	Fast Cool		•	•	•	•	•
	Good Sleep		•	•	•	•	•
	Eco Mode		•	•	•	•	•
	Fan Mode		•	•	•	•	•
	Quiet		•	•	•	•	•
Outdoor Unit & PBA	Triple Protector	Anti-Corrosion Fin	•	•	•	•	•
		Compressor Protector	•	•	•	•	•
		PBA Protector	•	•	•	•	•

## 2020 AIR CONDITIONER SPECIFICATIONS



S-Inverter Premium

			Indoor Model Code	AR10TYHYDWKNNME	AR13TYHYDWKNNME	AR18TYHYDWKNNME	AR24TYHYDWKNNME
			Outdoor Model Code	AR10TYHYDWKXME	AR13TYHYDWKXME	AR18TYHYDWKXME	AR24TYHYDWKXME
				1.0HP	1.5HP	2.0HP	2.5HP
Performance	Capacity	Cooling (Min - Max)	Btu/h	9000 (3000 - 11500)	12000 (3000 - 13600)	18000 (5200 - 22500)	21500 (5000 - 25000)
		Cooling (Min - Max)	kW	2.64 (0.88 - 3.37)	3.52 (0.88 - 3.99)	5.28 (1.52 - 6.59)	6.30 (1.47 - 7.33)
EER			W/W	3.77	3.35	3.47	3.41
CSPF				5.50	5.30	5.33	5.30
Energy Grade				5 Star	5 Star	5 Star	5 Star
Air Circulation			Max, m³/min	10.9	11.9	17.9	18.6
Moisture Removal			l/hr	1.0	1.5	2.0	2.5
Noise Level Pressure		Indoor High/Low	dB(A)	39/20	40/20	43/26	45/30
		Outdoor High	dB(A)	48	48	52	52
Electrical Data							
Energy Efficiency		Operating Current		3.8	5.2	7.2	8.5
		Power Consumption		700	1050	1520	1850
Power Source			V/Hz/Φ	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P
Physical Specification							
Net Dimension (WxHxD)		Indoor	mm	820 x 299 x 215	820 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215
		Outdoor	mm	660 x 475 x 242	660 x 475 x 242	790 x 548 x 285	880 x 638 x 310
Net Weight		Indoor	kg	8.9	8.9	11.4	11.6
		Outdoor	kg	20.1	20.1	29.9	35.6
Technical Information							
Piping Length & Height		Piping Length	Max, m	15	15	30	30
		Piping Height	Max, m	8	8	15	15
Refrigerant Type		Type		R32	R32	R32	R32
		Charge	Kg	0.5	0.5	0.73	0.80
SVC Valve		Liquid (OD) mm	mm	6.35	6.35	6.35	6.35
		Gas (OD) mm	mm	9.52	9.52	12.70	15.88
General Feature							
Air Flow	Wind-Free		-	-	-	-	-
	Air Direction Control	Up/Down	Auto	Auto	Auto	Auto	Auto
		Left/Right	Manual	Manual	Manual	Manual	Manual
	Air Flow Control Step (Cool/Fan)		5/4	5/4	5/4	5/4	5/4
Air Purification	Auto Fan Speed		•	•	•	•	•
	Easy Filter Plus	Anti-Bacteria	•	•	•	•	•
	Tri-Care Filter	Anti-Bacteria/Anti-Virus/Anti-Allergy	-	-	-	-	-
	Auto Clean (Self Cleaning)		•	•	•	•	•
Convenience	SmartThings		-	-	-	-	-
	Filter Cleaning Indicator		•	•	•	•	•
Operating Range	Temperature	°C	16-46	16-46	16-46	16-46	16-46
	Auto Mode	AI Auto with Wi-Fi	-	-	-	-	-
	Fast Cool		•	•	•	•	•
	Good Sleep		•	•	•	•	•
	Eco Mode		•	•	•	•	•
	Fan Mode		•	•	•	•	•
	Quiet		•	•	•	•	•
Outdoor Unit & PBA	Triple Protector	Anti-Corrosion Fin	•	•	•	•	•
		Compressor Protector	•	•	•	•	•
		PBA Protector	•	•	•	•	•



## 2020 AIR CONDITIONER SPECIFICATIONS



## S-Essential

	Indoor Model Code		AR09TGHQABUNME	AR12TGHQABUNME	AR18TGHQABUNME	AR24TGHQABUNME	
	Outdoor Model Code		AR09TGHQABUXME	AR12TGHQABUXME	AR18TGHQABUXME	AR24TGHQABUXME	
Performance			1.0HP	1.5HP	2.0HP	2.5HP	
Capacity	Cooling (Min - Max)	Btu/h	9000	11500	18000	24000	
	Cooling (Min - Max)	kW	2.637	3.370	5.274	7.032	
EER		W/W	3.20	3.20	3.47	3.40	
CSPF			3.72	3.55	3.67	3.70	
Energy Grade			3 Star	3 Star	3 Star	3 Star	
Air Circulation		Max, m³/min	9.88	9.2	13.2	17.8	
Moisture Removal		l/hr	1.0	1.2	1.8	2.6	
Noise Level Pressure	Indoor High/Low	dB(A)	41/28	38/27	40/30	45/38	
	Outdoor High	dB(A)	51	51	55	56	
Electrical Data							
Energy Efficiency	Operating Current		3.8	4.8	7.0	9.5	
	Power Consumption		824	1053	1520	2070	
Power Source		V/Hz/Φ	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	
Physical Specification							
Net Dimension (WxHxD)	Indoor	mm	805 x 194 x 285	805 x 194 x 285	957 x 213 x 302	1040 x 220 x 327	
	Outdoor	mm	681 x 285 x 434	770 x 300 x 555	770 x 300 x 555	946 x 410 x 810	
Net Weight	Indoor	kg	8.8	8.8	11.6	14.2	
	Outdoor	kg	24.0	28.2	37.8	60.7	
Technical Information							
Piping Length & Height	Piping Length	Max, m	20	20	25	25	
	Piping Height	Max, m	8	8	10	10	
Refrigerant Type	Type		R32	R32	R32	R32	
	Charge	Kg	0.5	0.5	0.73	0.80	
SVC Valve	Liquid (OD) mm	mm	6.35	6.35	6.35	9.52	
	Gas (OD) mm	mm	9.52	12.70	12.70	15.90	
General Feature							
Air Flow	Wind-Free		-	-	-	-	
	Air Direction Control	Up/Down	Auto	Auto	Auto	Auto	
		Left/Right	Manual	Manual	Manual	Manual	
	Air Flow Control Step (Cool/Fan)		3/3	3/3	3/3	3/3	
Air Purification	Auto Fan Speed		★	★	★	★	
	Easy Filter Plus	Anti-Bacteria	-	-	-	-	
	Tri-Care Filter	Anti-Bacteria/Anti-Virus/Anti-Allergy	-	-	-	-	
Convenience	Auto Clean (Self Cleaning)		-	-	-	-	
	SmartThings		-	-	-	-	
Operating Range	Filter Cleaning Indicator		-	-	-	-	
	Temperature	°C	18-43	18-43	18-43	18-43	
	Auto Mode	AI Auto with Wi-Fi	-	-	-	-	
	Fast Cool		★	★	★	★	
	Good Sleep		★	★	★	★	
	Eco Mode		★	★	★	★	
	Fan Mode		★	★	★	★	
	Quiet		★	★	★	★	
	Outdoor Unit & PBA	Triple Protector	Anti-Corrosion Fin		★		★
			Compressor Protector	★		★	★
PBA Protector			★		★	★	

# Memo

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.



**Air Purifier**  
Visibly clean air  
you can trust





## Purifies Fast

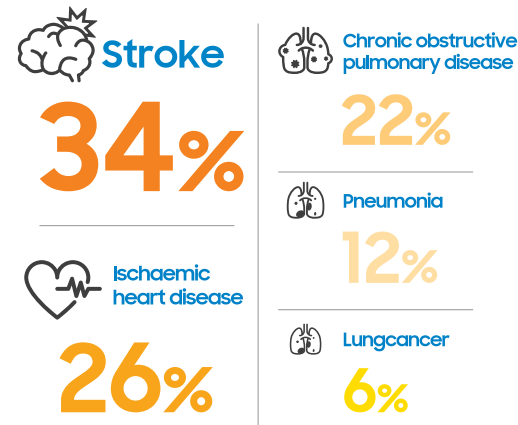
Even when the weather seems nice, much of the time there are actually fine dust and particulates in the air. The microscopic particles that we breathe in are the culprits behind many respiratory health issues. Many people believe that staying indoors solves the problem, but air inside the home may not be as clean as they think.

To help find a solution, introducing Samsung Air Purifier not only has an advanced filtration system, but also a high Clean Air Delivery Rate (CADR). Its multi-layered purification system removes up to 99.97% of 0.3 $\mu$ m sized dust particles\*, as well as harmful gases, like formaldehyde\*\*. It also detects the air quality in real time and displays the results numerically, so you can be sure that you're always breathing clean air. Now, discover a new way of life with the Samsung Air Purifier.

\*The filter media has over 99.97% dust collection efficiency, based on a particle size of 0.26 $\mu$ m, as specified by 42 CFR part 84. Tested in the National Test Institute of Korea.  
\*\*Tested on the AX80K7580WFD for toluene, xylene, benzene, ethylbenzene, styrene & formaldehyde gases in the National Test Institute of Korea.

# “Do you think your indoor air quality is clean enough?”

## Illness Attributed to Indoor Air Pollution\*



Source: WHO (World Health Organization)

## Types of Indoor Air Pollutants

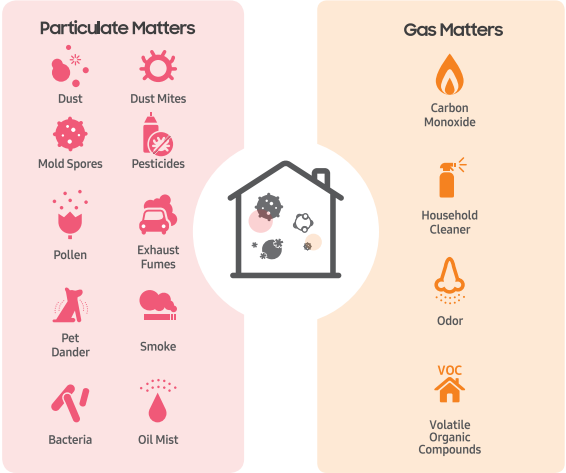
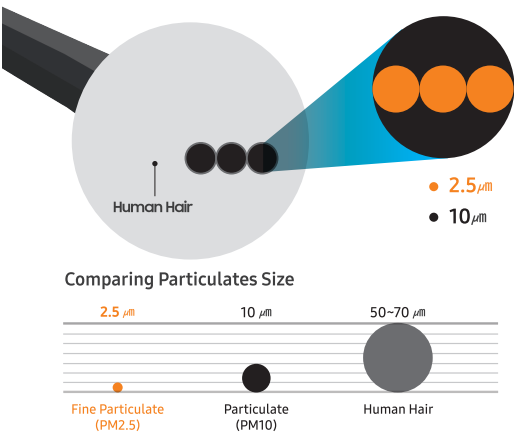


Image simulated for illustrative purposes

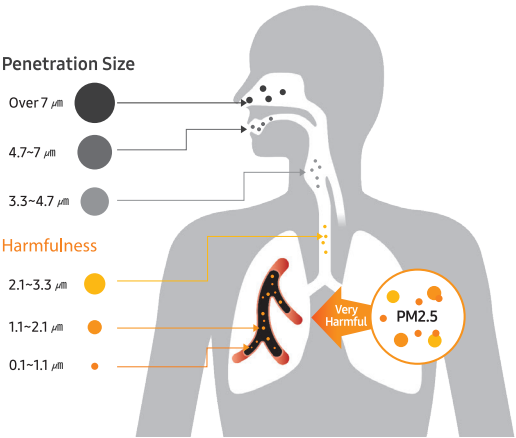
The above is merely for reference, specifications are subject to change without prior notice.

# “What is the PM2.5 and how can it affect to health?”

PM is the term for particles found in the air, including dust, dirt, soot, smoke and liquid droplets. And, PM2.5 refers to fine particles with a diameter of 2.5µm or less.



PM2.5 can penetrate deeper into the parts of the lungs that are valnerable to injury. An Air Purifier that captures PM10 and PM2.5 effectively is a healthier life.



The above is merely for reference, specifications are subject to change without prior notice.



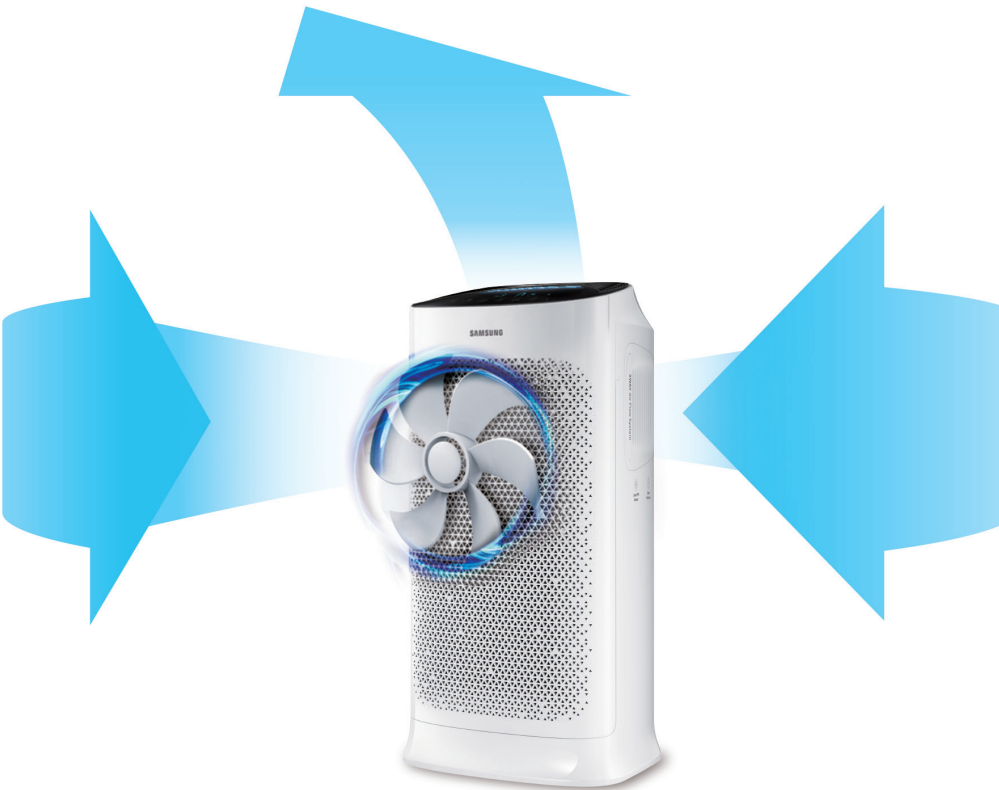
# Front Air Inflow and 3 Way Air Flow

## Pure Air Everywhere - Faster and Wider

Purify a wide area much more quickly, reaching from corner to corner\*. The Front Air Inflow easily draws in air. Power Fan rapidly distributes the clean air in multiple directions using its 3 Way Air Flow. So it reaches much wider and purifies faster, with a CADR of 467 cu. meters per hour\*\*.

\*Based on internal test result. Tested on the AX80K7580WFD compared with the Samsung conventional model AX40K3020UWD. Performance may vary depending on the actual usage environment.

\*\*CADR > 701m³/h. Tested in the KACA (Korea Air Cleaning Association).



# Multi-Layered Purification System

## Intensive Air Purification<sup>1</sup>

Keep your air pure and safe with multi-layered purification. Firstly, it extracts larger dust particles. An Activated Carbon Deodorization Filter then removes harmful gases<sup>2</sup>. The HEPA Filtration with ultrafine dust filter also captures up to 99.97% of ultrafine dust<sup>3</sup> and inhibits bacteria<sup>4</sup>.

<sup>1</sup> Performance may vary depending on the actual usage environment.

<sup>2</sup> Tested on the AX80K7580WFD for toluene, xylene, benzene, ethylbenzene, styrene & formaldehyde gases in the National Test Institute of Korea.

<sup>3</sup> The filter media has over 99.97% dust collection efficiency, based on a particle size of 0.26µm, as specified by 42 CFR part 84. Tested in the National Test Institute of Korea.

<sup>4</sup> Tested on the filter media of the dust collecting filter in the National Test Institute of Korea.








# Numeric Air Quality Display

## Precise Monitoring, Intuitive Display

Check the level of air pollution more precisely. A Laser PM Sensor detects dust particles, even particles less than 1.0µm, and gaseous contaminants. The numeric display then shows the exact level of PM1.0/2.5/10 sized air pollution. It also clearly highlights how clean the air is with a 4-colour Indicator.

## Ultrafine Dust & Purity Colour

Ultrafine Dust				
Purity Colour				
PM1.0/2.5	0 ~ 15	16 ~ 35	36 ~ 75	76 ~
PM10	0 ~ 30	31 ~ 80	81 ~ 150	151 ~



# SmartThings (Wi-Fi Control)

## Remotely Control it Anytime, Anywhere

Take care of your air and check its pollution level at anytime and anywhere. The SmartThings App\* lets you remotely control the air purifier. With a simple touch or using your voice\*\* you can turn it on or off, check the air quality, control other functions and monitor the status of the filter.

\*Available on Android and iOS devices. A Wi-Fi connection is required.  
 \*\*Voice control supported in 8 languages (UK English, US English, Korean, Chinese, German, French, Spanish and Italian).



The above is merely for reference, specifications are subject to change without prior notice.



# Detailed & Considerate Features

## Convenience



**Auto Mode**  
Auto Mode senses the air pollution level and automatically adjusts the power and fan speed.



**Timer**  
A timer to schedule when it turns on/off, so it doesn't waste energy.



**Filter Change Alarm**  
A Filter Change Alarm makes an icon blink when the filter needs replacing.



**Sleep Mode**  
Sleep Mode helps you sleep by creating a softer and quieter air flow, without any display lighting.



**Child Lock**  
A Child Lock prevents any accidental changes in settings or improper use.



**Wi-Fi Control\***  
Wi-Fi Control for you easily remote and control it anytime, anywhere.

\*Only for AX60R5080WDME

## Design



**Slim Design**  
The slim design ensures that it fits in almost anywhere, without taking up much room.



**Front-sided Inlet**  
Front-sided air inlet means you can simply replace and maintain the filter without moving or pulling it away from the wall.

## 2020 AIR PURIFIER SPECIFICATIONS



**AX5500**  
Capacity : 60m<sup>2</sup>



**AX3300**  
Capacity : 34m<sup>2</sup>

AIR PURIFIER	MODEL CODE	
	AX60R5080WDME	AX34R3020WWME
<b>Performance</b>		
Room Coverage (m <sup>2</sup> )	60	34
Noise (dBA)	50	45
Power Consumption (W)	60 W	30 W
<b>Physical Specification</b>		
Net Dimension (WxHxD, mm)	360 x 783 x 293 mm	350 x 540 x 350 mm
Net Weight (kg)	11.2 kg	8.2 kg
Colour	White	White
<b>Air Flow</b>		
Air Flow Control Step (Cool/Fan)	3 Step	3 Step
<b>Air Purification</b>		
Dust Collecting	•	•
<b>Features</b>		
Pre-Filter	•	•
2-in-1 Filter (Deodorization & PM2.5)	•	•
Dust & Odor Sensor	•	•
3-Way Air Flow	•	-
Front-Sided Inlet	•	-
Indicator (Cleanliness)	Numeric (PM1.0/2.5/10)	4 Colour Indicator
Double Smart Sensor (PM2.5 & Gas)	•	-
Hidden Wheels	•	-
Child Lock (3 Sec)	•	•
Filter Alert Indication	•	•
Sleep Mode	•	•
Timer	•	-
Mode (Auto)	•	•
Wi-Fi Embedded	•	-

# SAMSUNG



To learn more about Samsung Wind-Free™ Air Conditioner and Air Purifier, or to find your nearest retailer, please visit: [www.samsung.com/my](http://www.samsung.com/my)