

Source Material for 2013 Samsung Air Conditioner

This is a source material for 2013 Samsung Air Conditioner Catalog that is provided globally. Modify and publish this catalog according to each subsidiary's circumstances after consulting with the head office.

VOC Registration

- <http://mnet.samsung.com> -> Product information -> help -> voc
- VOC type : marketing contents -> air conditioner -> catalog



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2013 SAMSUNG

AIR CONDITIONER ICONS

Samsung air conditioners offer advanced performance of cooling.

Energy Efficiency



Smart inverter
Save energy with high energy efficiency




Minimum Standby Power
Save energy whether on or off




Smart Saver
Enjoy worry-free fresh cooling.


Clean and Fresh Air




Virus Doctor
Breathe healthier air




Full HD filter
Block up to 80% of Dust




Catechin Filter
Catechin deactivates captured bacteria and unpleasant odors



Anti-bacteria Coating
Effective Blocking up of bacteria



Auto Clean
Keeping the air conditioner clean and dry



Natural Breeze
Provide with natural fresh air

Comfort



good'sleep
Sleep like a baby



Turbo Cooling
Instantly cool your space



Dehumidification
Remove humidity in air



Quiet Operation
Relax with peace and quietness




Auto Mode
Automatically adjust operation mode(cooling/ heating) and fan speed according to the setting temperature




Fan Mode
The fan circulates the air in the room


Durability




Triple Protector
Enjoy steady and stable cooling with ultimate durability




Engine Protector
Compressor prevention from being overload




Controller Protector
Withstand power fluctuation from 80V to 450V



Fin Protector
Long lasting anti-corrosion fin



Twin BLDC
Extremely reduce vibration up to 40%



BLDC
High performance with low vibration

Convenience



Indoor Temp. Display
Display the indoor temperature



Display On/ Off
The display of LCD screen appears or disappears



Beep On/ Off
Beeping sound turns on or off



24-Hour timer
Timer setting in the period of 1 hour to 24 hours



Auto Air Direction (Up / Down)
The fan automatically moves up and down



Manual Air Direction (Left/ Right)
Manual adjusting of air flow direction



Auto Restart
Restart automatically at the set point



Auto Changeover
Selecting automatically operating mode(cooling/heating) according to the temperature



Special Remote Control
Easy to see and convenient control

Learn more about
Samsung air conditioners at:
www.samsung.com

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SAMSUNG

2013 SAMSUNG AIR CONDITIONERS

The fresh and clean air of Samsung air conditioners
ease your mind and comfort your body.



SAMSUNG



Smart Appliances that get you and your home

A smooth-running home is a source of great pleasure for modern moms, but maintaining a home also entails hard work. 'Traditional' home appliances help to ease the physical burden of household management but the mental burden of planning and organizing are still on mom's shoulders.

Samsung is revolutionizing the home appliances category, drawing on the expertise that we have developed in categories such as mobile phones and TVs to add smart technology into appliances. **Samsung Smart Appliances get you and your home.**

Assuming human characteristics, Samsung Smart Appliances anticipate mom's needs and adapt to her requirements to ease the mental as well as the physical burden of maintaining a smooth-running home.

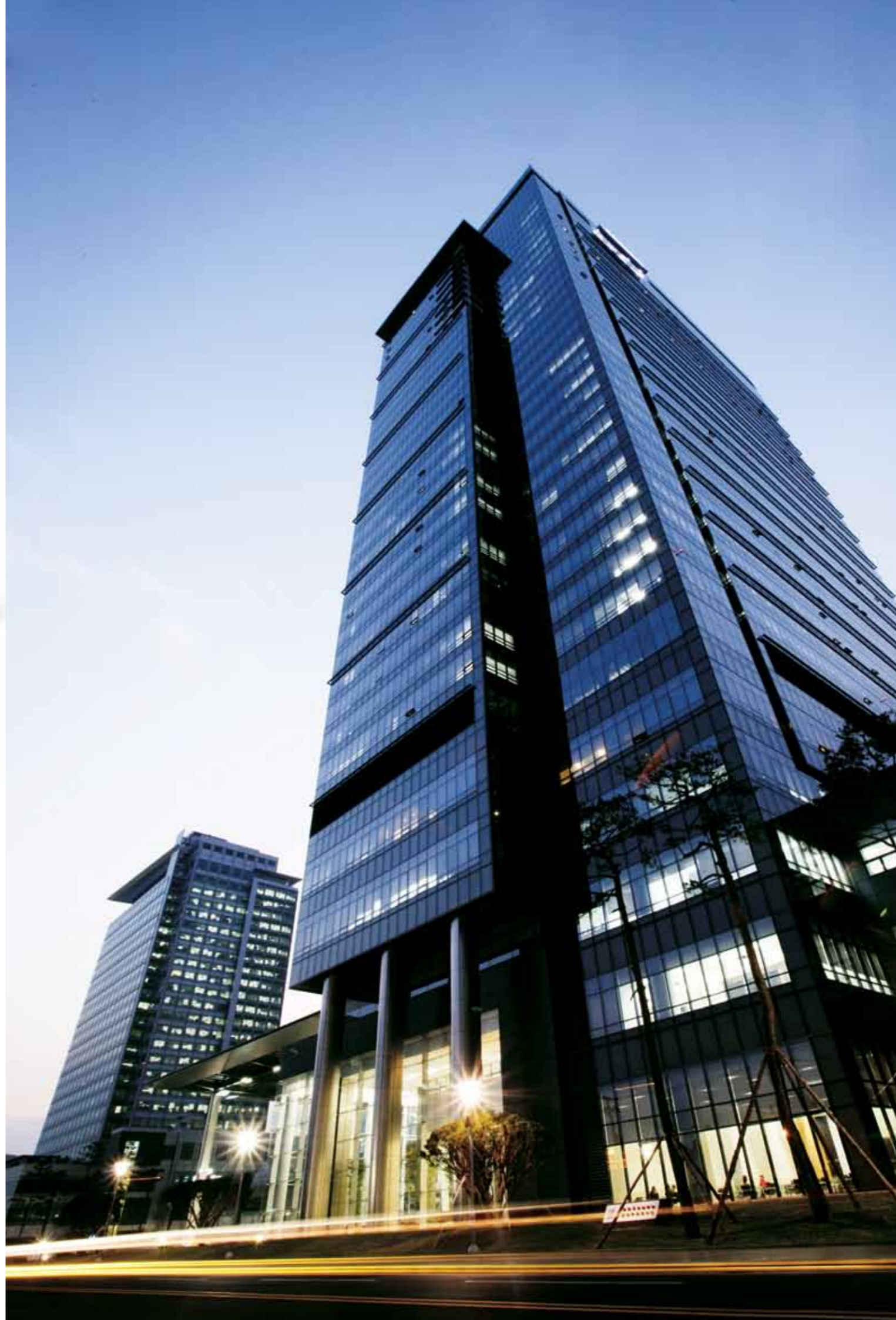
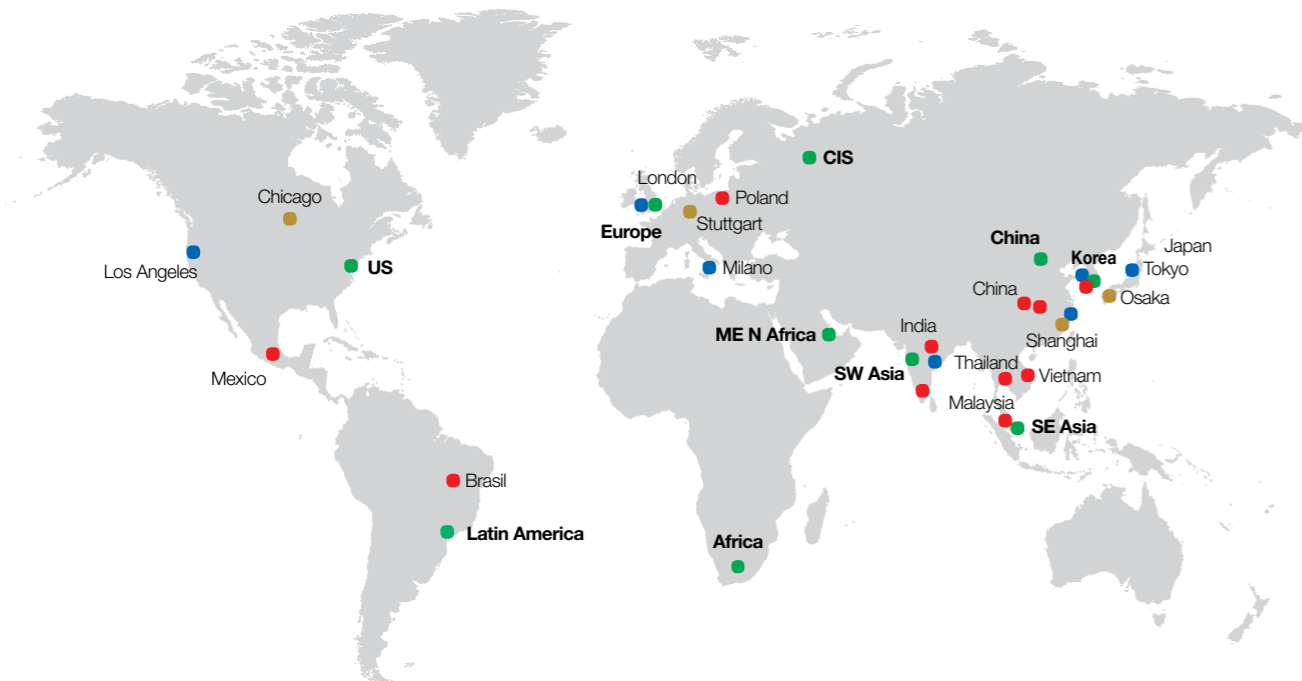
Samsung is moving ahead and with our customers

“Put simply, our differentiation is centered on producing innovative technology that brings genuine change to people’s lives. We do this by bringing a relentless focus on consumer experience and product innovation in everything we do.”
- Sue Shim CMO (Chief Marketing Officer), SAMSUNG



Global Business Network

● 11 Global Operation Centers ● 10 Global Headquarters ● 4 HA R&D Centers ● 7 Design Centers



'Eco-friendly' Samsung

Preserves the nature you live in.

Thinking of you and the environment, Samsung plans for the future. Realizing your hopes for a greener, healthier life for you and the generations that follow, Samsung's environment-friendly technologies work to make the world a more beautiful place.



Air & Water Conservation

As a leading innovator of environment-friendly products and technologies, Samsung products already drastically reduce the strains on nature's valuable resources. Samsung uses cyclopentane insulation in its refrigerators not to promote greenhouse effect and thus to prevent global warming. Samsung's water-efficient washing machines also effectively operate with less detergent and water to conserve nature.

Samsung Eco-Friendly Air Conditioner

Making continuous efforts to stay eco-friendly, Samsung air conditioners use R-410A, an environment-friendly refrigerant to help rid the air of pollutants and restrain the use of materials with high global warming potential (GWP). These energy-efficient air conditioners not only save you money, but help conserve the environment.



Global Recycling

Samsung Electronics has taken a leading role in saving the environment and complies with the WEEE (Waste Electrical and Electronic Equipment) Directive by joining or establishing the recycling schemes for each country.



Use Less, Save More

Samsung washers with its ceramic heaters use less power which saves you energy, money and time. This energy-efficient technology protects you and nature for your greener life style.



Galeria de Innovacion 2009

Samsung attended Europe's largest air-conditioner exhibition "Climatization" in Madrid, Spain. Samsung air conditioner's beautiful design with innovative features was awarded the "Galeria de Innovacion". The idea behind this award is to encourage innovation in the practical application of know-how and technologies in industrial development. Once again, Samsung proves its unsurpassed standards in quality.

iF Product Design Award 2009

As one of the world's oldest & prestigious design competitions, the iF product design award has stood for qualitatively outstanding design awards for over 50 years. And Samsung air conditioner with its design innovations has won the iF product design award for the year 2009. Samsung air conditioner continues to receive worldwide recognition and awards, proving high quality of function and beauty.

Comfort & Design 2010

Organized by Fiera Milano International, 37th Mostra Convegno Expocomfort / Expobagno 2010 aimed to reward the best product that shows a high level of environmental quality, providing a complete overview of the sector along the lines of "Comfort & Living Technology". And Samsung air conditioner won the prize conferring a valid and professional recognition for the best product in the ceremony.

Good Design Award 2011

Good Design Award is a comprehensive program for the evaluation and encouragement of design organized by Japan Institute of Design Promotion (JDP). This has been a program advancing lifestyle and industrial activity by selecting outstanding design. Samsung air conditioner, Y series, has advanced to the finals for the year 2011.

2012 SAMSUNG AIR CONDITIONERS Contents

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SPLIT TYPE	26p	Max Inverter Crystal Max
SPECIFICATIONS	34p	Max Inverter Crystal Max

Smart Inverter



Save energy with high energy efficiency



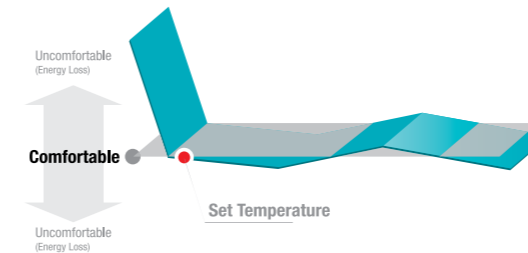
Test condition
 • Inverter model : AQV09PSD(AQV09UGF) / On/Off model : AQ09TSB
 • Outside Temperature : 35°C/24°C (Dry Bulb/Wet Bulb)
 • Laboratory: House-environment Test Lab at Samsung Electronics
 • Room Size : 16.5m²
 • Initialize indoor Temperature : 35°C / Set target Temperature : 25°C

What is the Smart Inverter?

Samsung Smart Inverter technology saves energy while the air conditioner is on by maintaining the ideal temperature without constant shutting off and on of the compressor.

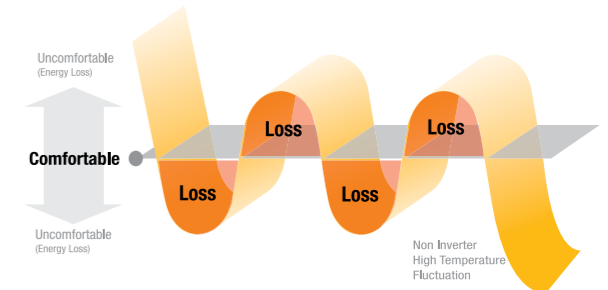
Smart Inverter

Smart Inverter technology automatically adjusts power to cope with any temperature variances, assuring you have optimal comfort.



Non-inverter

Non-inverter air conditioners are continuously shutting down when it reaches the set temperature, which causes large fluctuations in temperature and comfort.



Save energy, money, and stay cool!

The Smart Inverter allows you to stay comfortable for a long period of time while using the least amount of energy. With reduced energy consumption, it also preserves the environment



Save Energy

Enhanced control of the Smart Inverter reduces energy consumption so you can save more money on your electricity bill.



Stay Comfortable

The set temperature is maintained without extreme temperature fluctuations so you stay consistently comfortable.

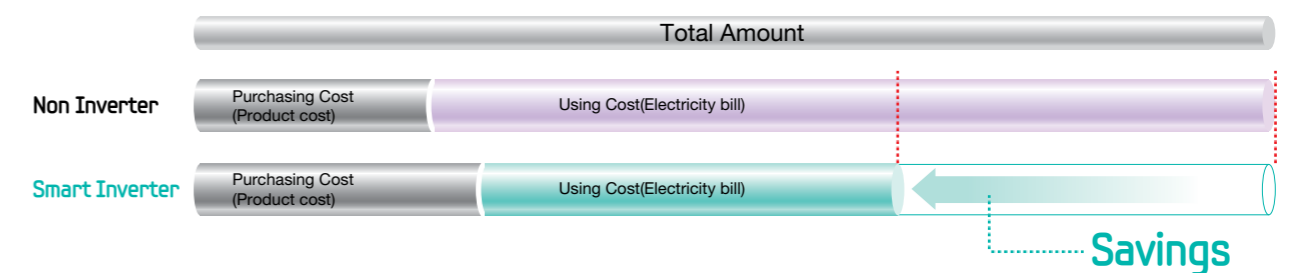


Save Earth

The energy efficient Smart Inverter not only saves your money but also nature for your greener life style.

Save more with the Smart Inverter

Although the unit price of Smart Inverter air conditioner is initially higher than a non-inverter air conditioner, it pays for itself in time with the money you save on electricity bills.



Minimum Standby Power



Save energy whether on or off



Double Savings

Samsung Smart Inverter technology saves up to 60% in energy while the air conditioner is on, and uses Minimum standby power when turned off. These great double savings reduce your electricity bill and keep you from pulling out the plug.



When the air conditioner is on
SMART INVERTER

The Smart Inverter technology uses the least amount of electricity to maintain the desired temperature without frequently shutting off and on, saving up to 60% of energy.



When the air conditioner is off
Minimum Standby Power

When the air conditioner is off, the improved control board installed in the Samsung air conditioner uses less than 1W, resulting in significantly less energy consumption than Samsung conventional air conditioners.

Smart Saver



Enjoy worry-free fresh cooling



This is when you need Smart Saver!



When you repeatedly turn the air conditioner on and off to save energy.



When you don't want to waste energy cooling an empty room.



When you debate turning on the air conditioner because it's not unbearably hot.

Preserve nature with Samsung!

With the innovative Smart Saver function, users can significantly save energy and money. Feel proud of that you are doing your part in preserving the environment by using an energy-efficient product.



Virus doctor



Breathe healthier air



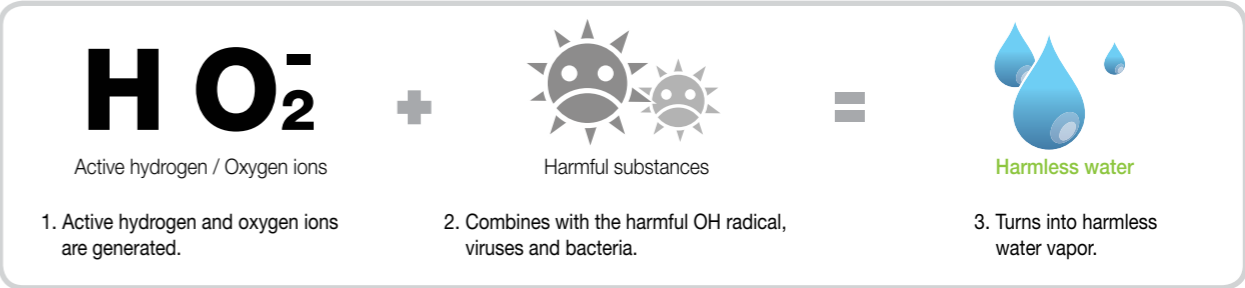
What is Virus doctor?

An amazing air purifying technology, 'Virus doctor', neutralizes all harmful contaminants in the air including bacteria that resists physical filtration, turning these contaminants into harmless water vapor.



How does Virus Doctor eliminate biological contaminants?

Whereas conventional filter-based purifying systems can only affect processed air, Samsung air conditioners with Virus doctor proactively remove all contaminants, thus improving air quality.



Virus doctor has received three awards, gaining recognition both at home and abroad.



2010 AHR EXPO
Innovation Awards in the
indoor air-quality category



1st Air Day
Minister of the
Environmental Award



Winner of the
Jang Young Sil
Award

Certification status

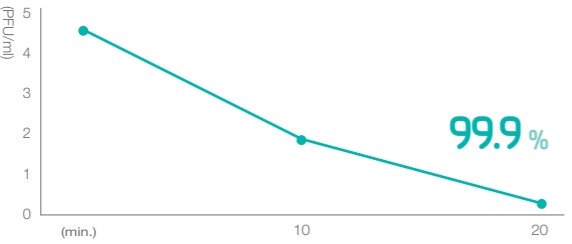
Substances		Effectiveness	Verification Institute
Virus	Influenza A virus subtype H1N1 (Swine flu)	99.99% eliminated	Chungnam National University (Korea)
	Influenza A virus H5N1 (Avian influenza)	99.99% eliminated	Retroscreen (UK)
	Influenza A virus H1N1 (Spanish influenza)	99.6% eliminated	Kitasato Environmental Science Center (Japan)
	Influenza A virus H3N2 (Asian influenza)	99.6% eliminated	Yonsei University (Korea)
	Corona Virus (the same family as SARS)	99.6% eliminated	Kitasato Medical Center (Japan)
Bacteria	MRSA ¹⁾	99.99% eliminated	Kitasato Medical Center (Japan)
	Staphylococcus	99.97% eliminated	Kitasato Environmental Science Center (Japan)
	Escherchia coli	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Micrococcus	99.9% eliminated	Kitasato Environmental Science Center (Japan)
	Bacillus subtilis	99.7% eliminated	Kitasato Medical Center (Japan)
mold	Aspergillus	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Penicillium	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Cladosporium	98.9% eliminated	Kitasato Environmental Science Center (Japan)
Allergen	Der p1 (Dust mites)	effective	Acquire BAF ²⁾ Seal (UK)
	Fel d1/Can f1 (Dog/cat hair)	effective	RTI ³⁾ Test (US)
	Allergen	effective	RTI ³⁾ Test (US)
OH-Radicals	Neutralization of OH Radicals	Verified	Hiroshima University (Japan)
Safety	Inhalation Toxicity Test	Non-toxic	Seoul Toxicology Laboratory (Korea)
	Conjunctiva & Skin irritation Test	Non-toxic	Clinical Research Institute at Seoul National University (Korea)

1) MRSA : Methicillin-Resistant Staphylococcus Aureus (Antibiotic-resistant nosocomial pathogens)
2) BAF : British Allergy Foundation (Certification institute)
3) RTI : Research Triangle Institute (Allergy research institute in the US)

Healthy Air _ Eliminate the influenza virus

Viral removal testing was carried out on the influenza virus, the most common airborne virus, leading to confirmation of Virus doctor's ability to effectively eliminate up to 99.9% viruses in the air. (Certification by: Korea-Yonsei University, Chungnam National University / Japan - Kitasato Environmental Science Center, Medical Center)

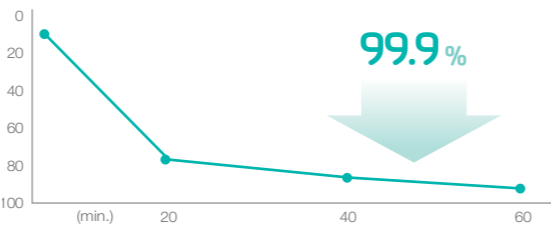
Influenza subtype A H1N1 eradication experiment



* Research carried out by : Professor Seo Sang-hui of Chungnam National University (Developed the world's first H1N1 vaccine for the human body)

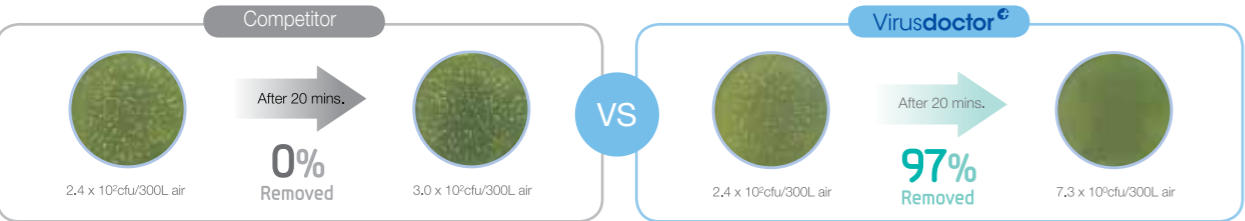
MRSA (Antibiotic-resistant bacterium)

S-Plasma ion removes 99.99% of MRSA, which is resistant to antibiotics.



* Testing institute : Kitasato Environmental Science Center
* Measurement time : 2 hours * Test sample : Device only * Size of chamber : 1m³

Microbial test results (Staphylococcus aureus)



* Size of chamber : 900mm(W) x 500mm(D) x 600mm(H) * Air suction rate : 300L air/3 min * Samsung test standards

Clean Air _ Remove allergens in the air



Virus doctor, Samsung's outstanding and unique technology, has received the BAF (United Kingdom) Seal.

Relaxing Air _ Generate relaxing oxygen ions

Free from harmful positive ions

As positive ions can cause symptoms such as difficulty in breathing, headache, and nausea, Samsung's special Virus doctor technology generates nearly zero harmful positive ions to keep your family safe.



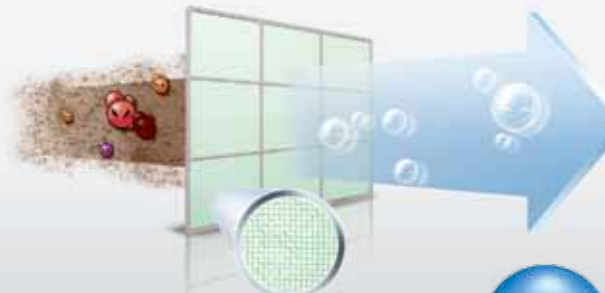
Free from ozone

Virus doctor technology produces virtually no ozone, an air pollutant with harmful effects on the respiratory system. Producing less than 1/5th of the concentration level stipulated in international indoor ozone regulations, Virus doctor technology lets you breathe easy.

Full HD filter




Block up to 80% of dust



FULL HD FILTER

Dust Collection up to **80%**
Compared with conventional filters

VS



30 mesh General pre filter

Dust Collection up to **50%**

Easier and care-free filter cleaning!

All you need to do is simply wash out the dirt with flowing water to clean the filter. Always keep your air clean and fresh with simple and easy care of the filter.




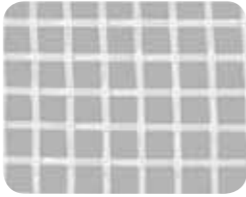
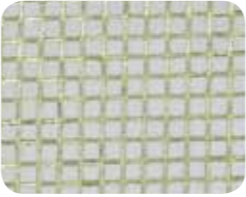

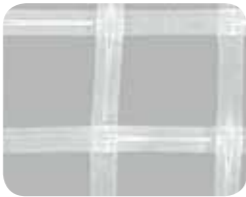
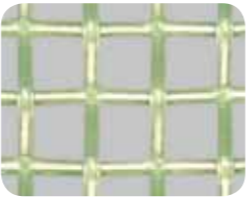
Anti-bacteria coating

Due to the anti-bacteria coating's unique structure, this filter collects even the smallest microscopic dust particles and viruses for the complete protection.



Full HD filter types

There are two different type of Full HD Filters. The ultra-compact filters remove even the smallest dust particles, and the anti-bacteria coating removes bacteria and house dust.

	30 mesh General pre filter	Full HD Filter	
		Full HD 60	Full HD 80
X 40			
X 150			
Application Model		Max	Max Inverter / Crystal
Filament Dia.	211	134	60
Dust Collection	50%	60%	80%
Feature	Anti-Bacteria coating		

Double Cleaning

Samsung enhanced purifying system with advanced filter and smart Virus doctor.
Virus doctor further cleans the air that has already been filtrated by the Full HD Filter to ensure a fresher and healthier environment.

STEP 1.

FULL HD FILTER

Samsung's high density filter blocks out even the smallest dust particles.



STEP 2.

Virusdoctor⁺

The air purifying device eliminates 99% of contaminants, bacteria and viruses in the air.

Triple Protector



Enjoy steady and stable cooling with ultimate durability

Triple Protector



Ultimate
Compressor

Advanced
Volt control

Anti-
Corrosion



Engine protector

Controller protector

Fin protector

How to work

Samsung's integrated protection technology offers better durability and reliability. Its powerful cooling system (Engine Protector), constant volt control (Controller Protector), and effective anti-corrosion coating (Fin Protector) allow you to have perfectly fresh cooling air for a longer period of time.



1 Engine protector

Samsung's distinctive engine protector prevents compressor from being overloaded by unstable electricity circumstances, so you can always rely on having a cooled room evenly.



2 Controller protector

Samsung's advanced controller adjusts to avoid breakdowns from unstable power supplies. This special technology withstands power fluctuations from 80V to 450V, so you always have unbeatable coolness regardless of circumstances.



Upgraded mode
'Smart Protection'

It checks the voltage level after protection from unstable voltage fluctuation. when voltage fluctuation is stable, Smart Protection mode re-starts the Samsung air-conditioner automatically. There's no need to restart manually.

3 Outstanding anti-corrosion protector

Anti-corrosion fin condenser and MCC are designed with strong corrosion-resistant material to protect itself from rusting. This fin strongly protects the condenser from corrosion to give you cool and clean air without worries of being worn.



Samsung's anti-corrosion fin



Non-coated model

good'sleep



Sleep like a baby

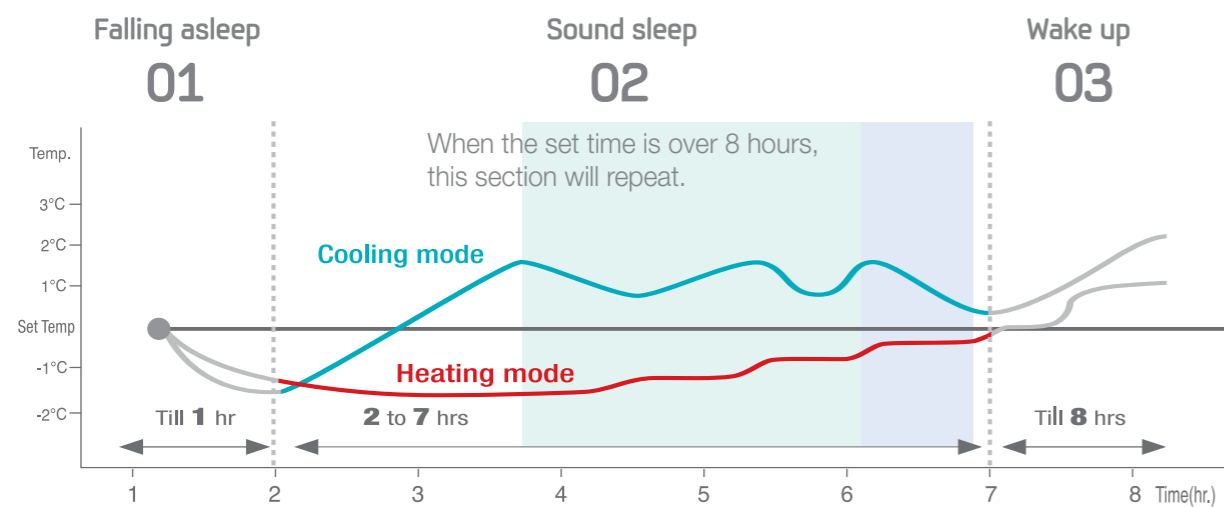


Enjoy a pleasant night's sleep

The quality of sleep you get directly impacts your physical and mental health. Concerned with your health, Samsung performed extensive experiments to determine the ideal temperatures needed to quickly fall asleep, maintain a comfortable sleep environment, and to awake refreshed. After years of testing, Samsung has developed a precise temperature control system that accurately controls the temperature and humidity in the room during the 3 stages of sleep to ensure users wake up fully refreshed and ready to start their day.

Best temperature for deep sleep

Unlike other product's sleep mode, Samsung good'sleep considers the rhythms of human sleep and controls the cooling to maintain ideal temperatures to each stages.



01 Falling asleep stage

Eases you into sleep by dropping the temperature.

02 Sound sleep stage

Relaxes your body and raises your temperature slightly.

03 Wake up stage

Allows you to wake up from comfortable intermittent air and makes you feel refreshed.

Turbo Cooling

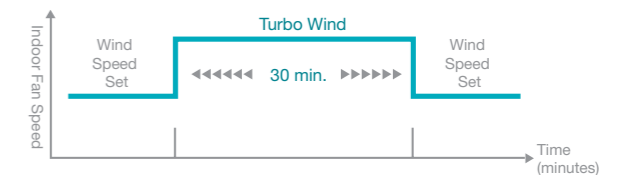


Instantly cool your space



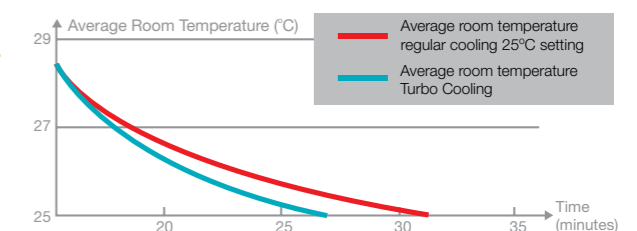
Maximum cooling!

When you turn on the Turbo Cooling mode, the compressor operates in its maximum speed for 30 minutes to cool down your space quickly.



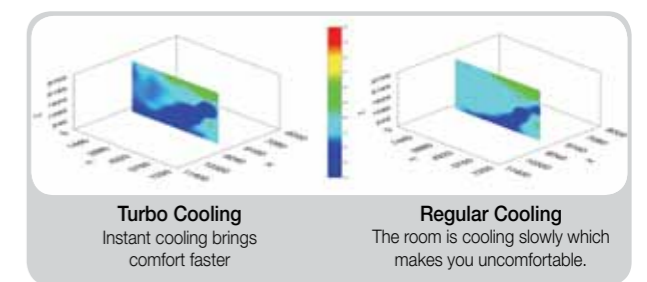
Cool down faster than ever

Compared to normal operation mode, Turbo Cooling cools the space 15% faster. When you need instant cooling, Turbo Cooling is the perfect answer.



Even cooling

Illustrated in the table on the right, Samsung's cool air evenly distributes throughout the room quicker than regular cooling.



* More blue means better cooling operation.

Quiet Operation



Relax with peace and quietness

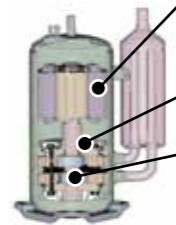


Immensely low vibration with twin BLDC

The highly efficient twin BLDC compressor reduces its variation level to only 1/8 compared to the Samsung conventional single BLDC compressor.

Test model
Twin BLDC model : UG4T150LNC_FV#4 / Single BLDC model : G4C090LUD

BLDC (Twin Rotary) Compressor



Highly Efficient BLDC Motor

- Creative motor core design
- High density neodymium magnet
- Concentrated type stator

Extremely Low Vibration

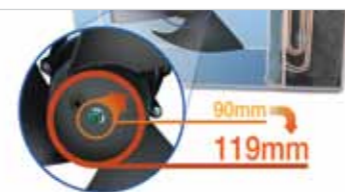
- Twin eccentric cams
- 2 balance weights

Highly Stable Moving Parts

- Optimal material matching rollers and vanes
- Highly robust bearings
- Coated vane
- Coated shaft

More stable fan spin

New fan hub's depth is increased from 90 mm to 119 mm and the diameter is widened by 32%. The reinforced fan hub makes the spinning more stable, reducing vibration noise when the air conditioner is in operation.



Stronger body pillar

Once the air conditioner is turned on, the outdoor unit's case makes a high level of noise due to vibration and loose jointed parts. Samsung's strengthened body pillar holds the case more tightly to inhibit vibration and adds durability.

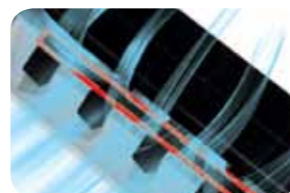


Seamless airflow

The air conditioner's air path has been widened and streamlined to reduce air friction. This reduces the whizzing sound without compromising powerful blasting wind.



SAMSUNG



Conventional

Special remote control



Innovation at your fingertips



MAX Series

Crystal Series

01 Easy View Display

Bigger, clearer numbers and icons allow for better visibility.



02 Bigger Buttons

Larger buttons for easier use.



03 Power Button

Orange colored power button makes it easy to see.



Split Type

Express Yourself.

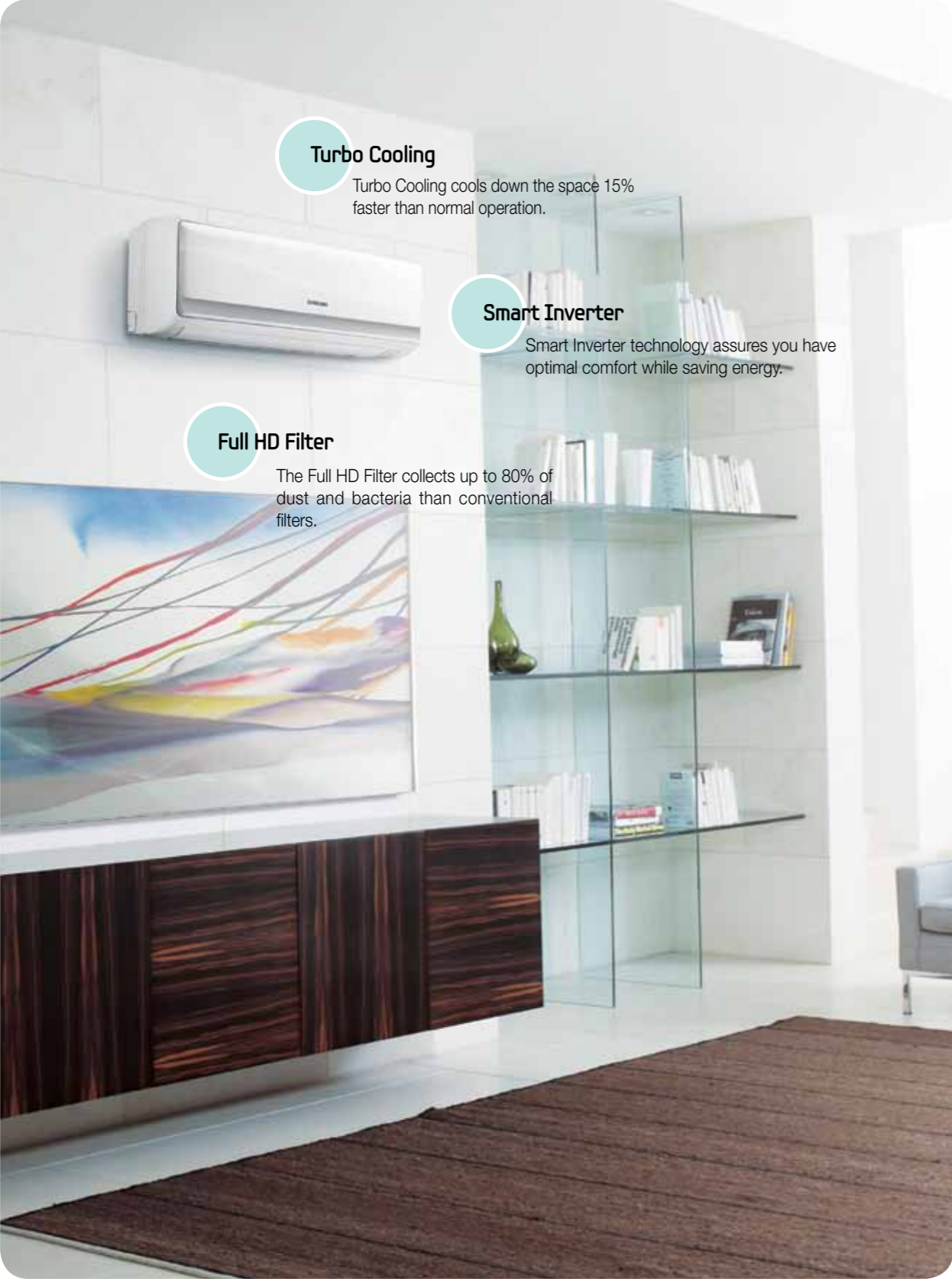
Max Inverter

Crystal

Max

Max Inverter

With full HD dust collection and consistent Smart Inverter cooling power, the Samsung Max Inverter ensures health and comfort.



Turbo Cooling
Turbo Cooling cools down the space 15% faster than normal operation.

Smart Inverter
Smart Inverter technology assures you have optimal comfort while saving energy.

Full HD Filter
The Full HD Filter collects up to 80% of dust and bacteria than conventional filters.

Additional features



Smart Inverter
Smart Inverter maintains the ideal temperature without constant shutting off and on of the compressor.



Full HD Filter
The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.



Triple Protector
The powerful cooling system, constant volt control and effective anti-corrosion coating offers fresh cooling air for a long time.



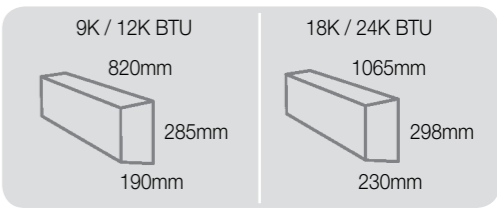
good'sleep
good'sleep automatically adjusts temperature to create the most comfortable environment at night.

- | | | | |
|------------------------------------|------------------------------|-----------------------------------|---|
| Auto Clean | Minimum Standby Power | Full HD filter | Anti-Bacteria Coating |
| Fan Mode | Natural Breeze | Dehumidification | Auto Mode |
| Fin Protector (Anti-corrosion Fin) | Quiet Operation | Engine Protector (OLP Compressor) | Controller Protector (Volt Control PCB) |
| 24-Hour timer | Twin BLDC | BLDC | Smart Saver |
| Auto Changeover | Auto Air Direction (Up/Down) | Manual Air Direction (Left/Right) | Auto Restart |
| Turbo Cooling | | | |

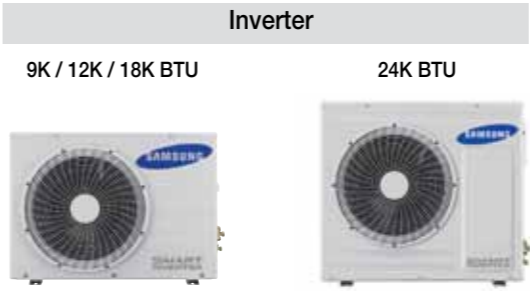
Available colors & dimensions



Gray



Outdoor units & remote control



Crystal

Crystal dazzles with its high glossy panel, making your home sparkle with luxury. What's more, you can enjoy clean, refreshing air with its strong power and purifying functions.



Virus Doctor

Virus Doctor eliminates 99% of harmful contaminants in the air.

Full HD Filter

The Full HD Filter collects up to 80% of dust and bacteria than conventional filters.

LED Display

The easy to view LED display is a discrete way of adding functionality to beauty.

Additional features



Virus doctor

Virus Doctor eliminates up to 99% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.



Full HD Filter

The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.



Smart Saver

In Smart Saver mode, the compressor operates in the least amount of time to cool the room, which saves electricity.



good'sleep

good'sleep automatically adjusts temperature to create the most comfortable environment at night.

Deodorizing Filter	Catechin Filter	Anti-Bacteria Coating	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)	Fin Protector (Anti-corrosion Fin)
Indoor Temp. Display	Display On/Off	Beep On/Off	24-Hour timer
Auto Air Direction (Up/Down)	Manual Air Direction (Left/Right)	Auto Restart	Auto Changeover

Available colors & dimensions



White

9K / 12K BTU	18K / 24K BTU

Outdoor units & remote control



Max

With exceptional cooling power, Max cools the room faster and keeps it cool longer with refreshing air. Also, its unique technologies prevent waste of unnecessary energy consumption and control the temperature automatically.



Turbo Cooling

Turbo Cooling cools down the space 15% faster than normal operation.

Full HD Filter

The Full HD Filter collects up to 60% of dust and bacteria than conventional filters.

Additional features



Turbo Cooling

Turbo Cooling maximizes the speed of cooling and heating to quickly reach the set temperature.



Smart Saver

In Smart Saver mode, the compressor operates in the least amount of time to cool the room, which saves electricity.



good'sleep

good'sleep automatically adjusts temperature to create the most comfortable environment at night.



Triple Protector

The powerful cooling system, constant volt control and effective anti-corrosion coating offers fresh cooling air for a long time.

- | | | | |
|------------------------------------|-----------------------------------|---|-----------------------|
| Auto Clean | Minimum Standby Power | Full HD filter | Anti-Bacteria Coating |
| Fan Mode | Natural Breeze | Dehumidification | Auto Mode |
| Fin Protector (Anti-corrosion Fin) | Engine Protector (OLP Compressor) | Controller Protector (Volt Control PCB) | 24-Hour timer |
| Auto Changeover | Auto Air Direction (Up/Down) | Manual Air Direction (Left/Right) | Auto Restart |

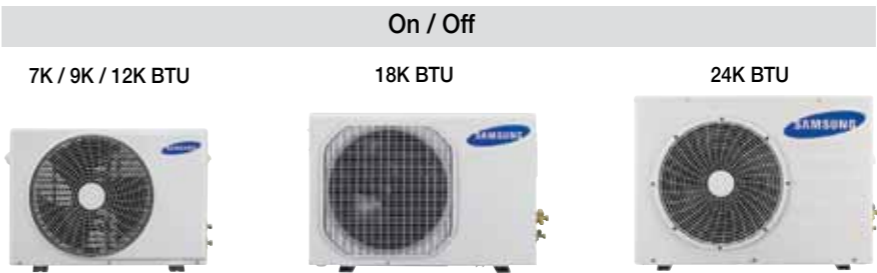
Available colors & dimensions



Gray

7K BTU	9K / 12K BTU	18K / 24K BTU
728mm	820mm	1065mm
255mm	285mm	298mm
175mm	190mm	222mm

Outdoor units & remote control



Specifications

Max Inverter
Crystal
Max



[illegible]

