

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.



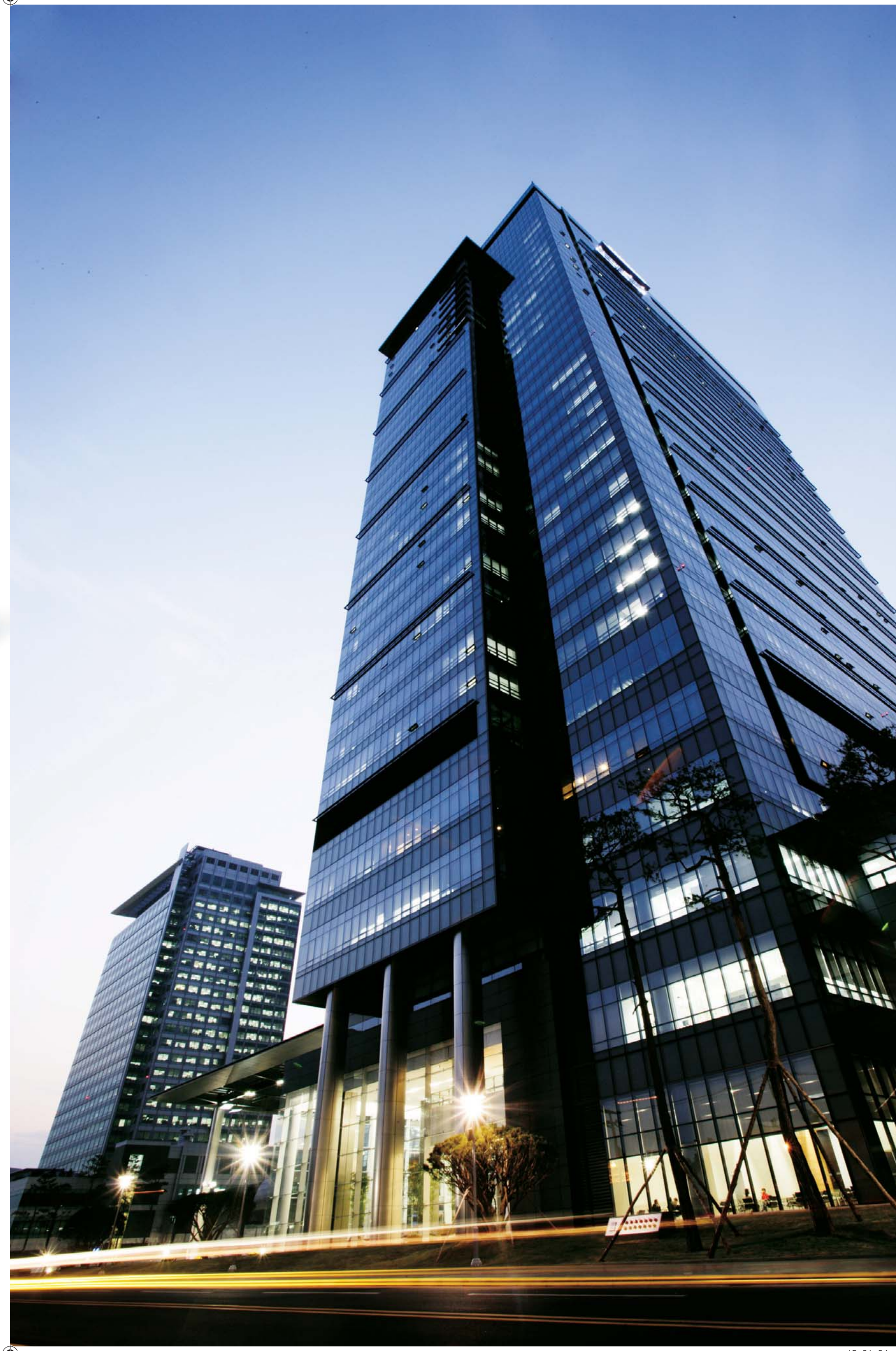
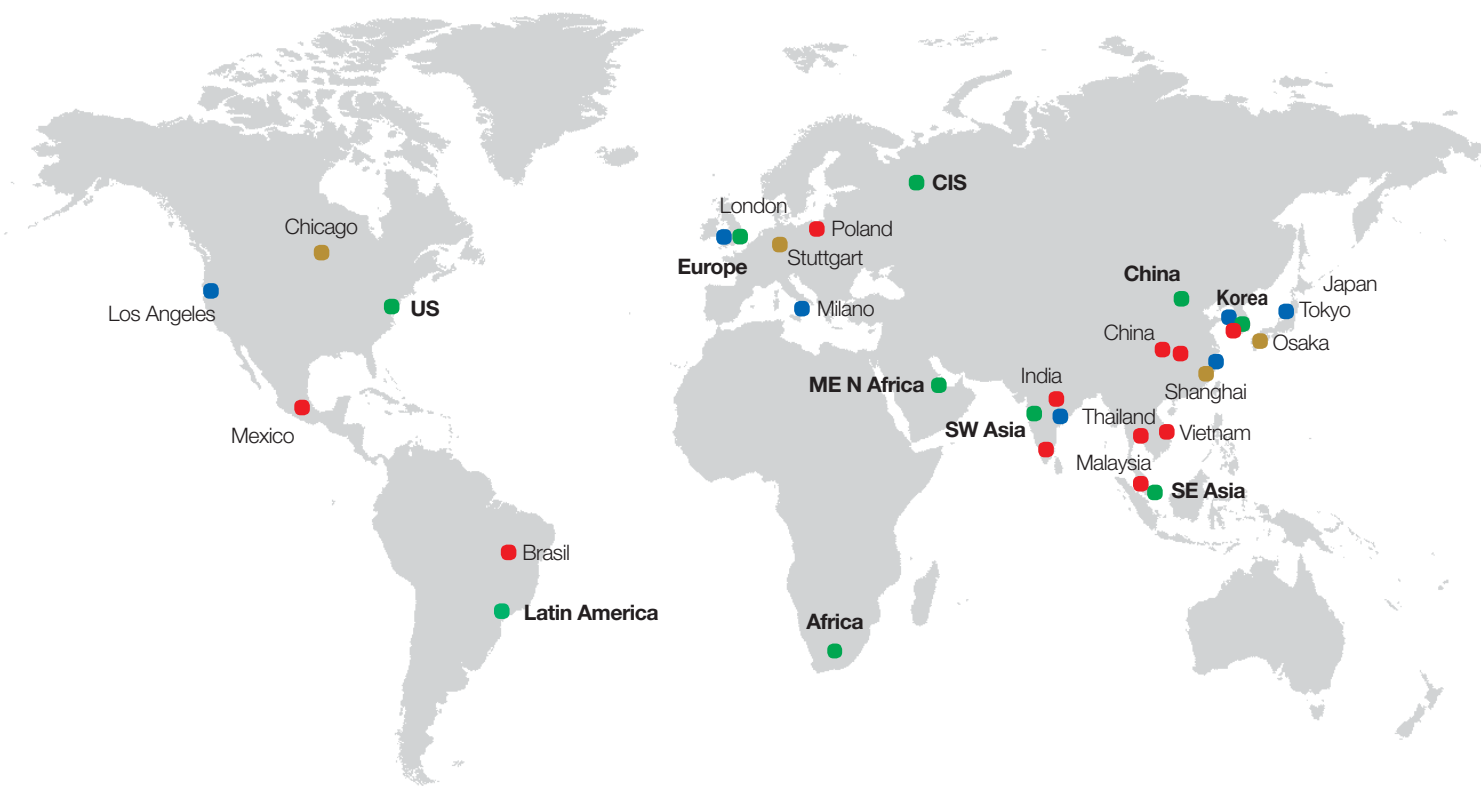
Samsung is moving ahead and with our customers

“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.

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.

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.



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.

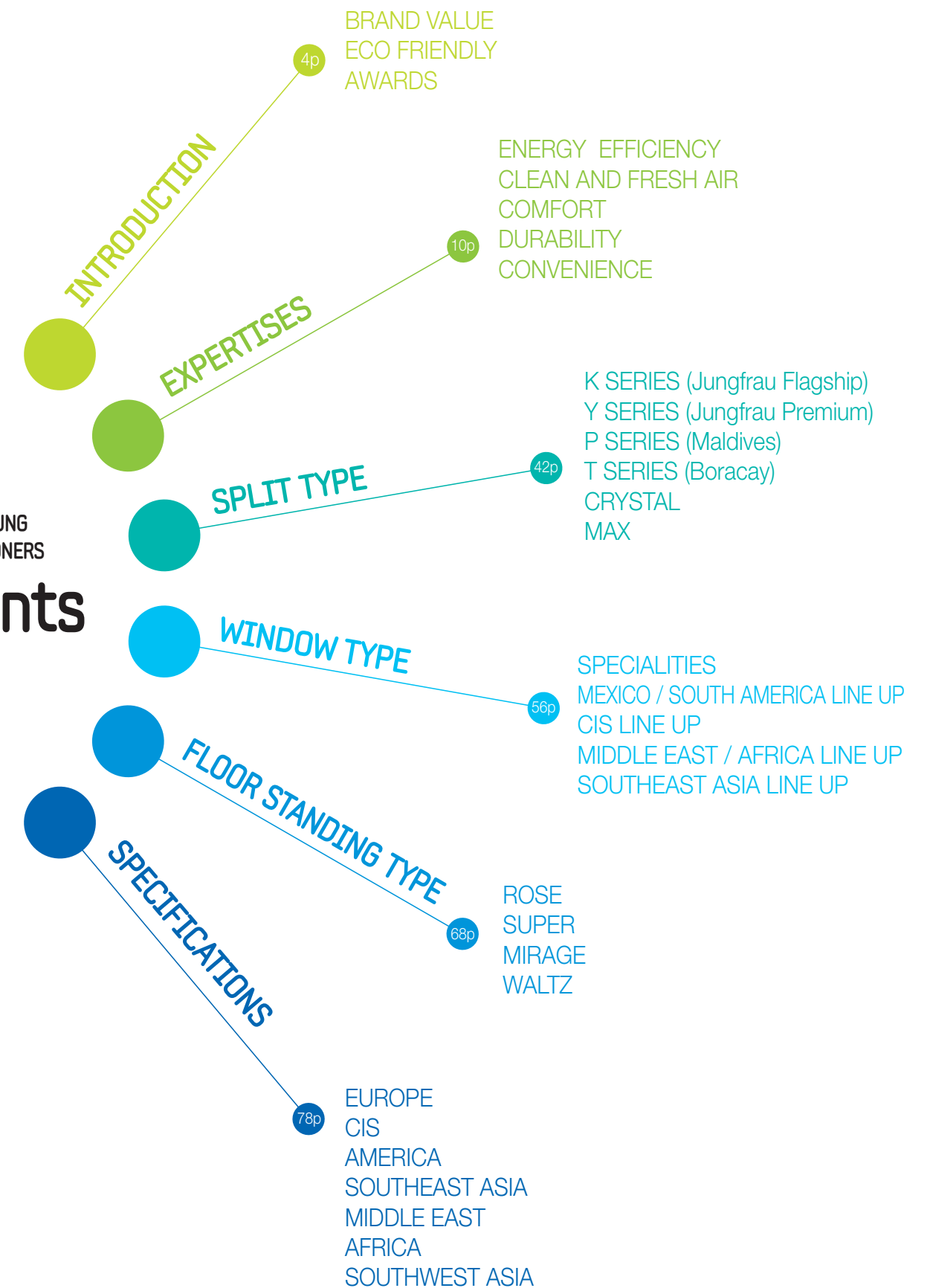
Comfort & Design 2010

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



01

Expertises

Energy Efficiency

Save on Your Electricity Bill.

Smart Inverter

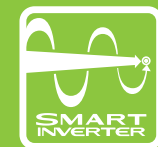
Zero Standby Power

Smart Saver



More Savings!

Smart Inverter



Save energy with World Top Class EER

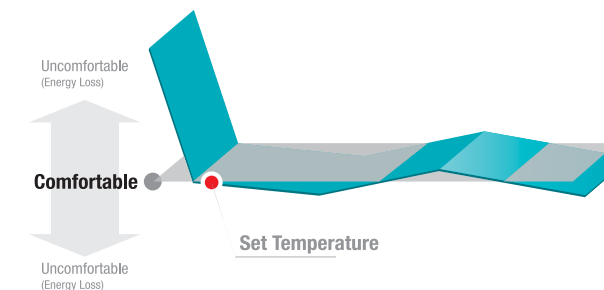


What is the Smart Inverter?

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.

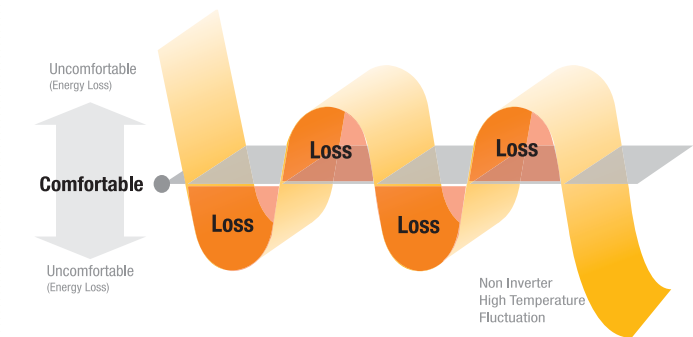
Smart Inverter

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.

Save Energy



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

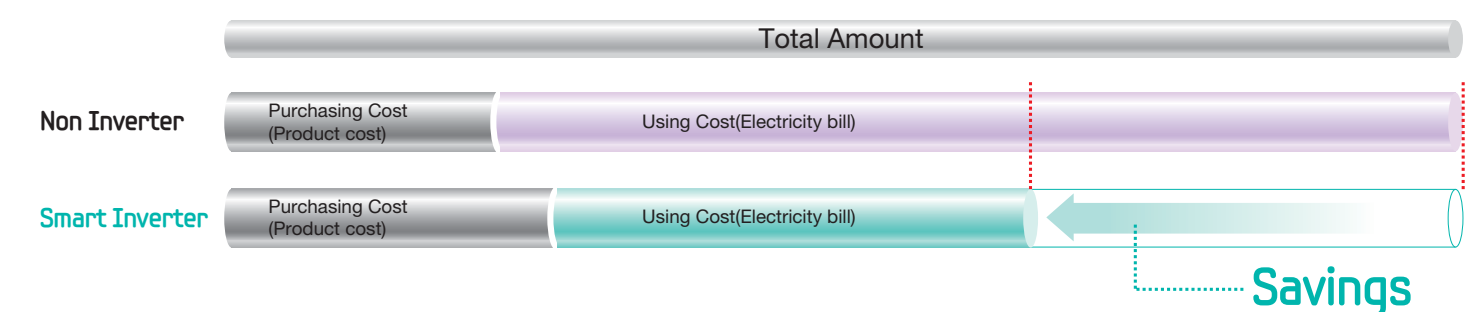
Stay Comfortable



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

Save 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.



Zero Standby Power

ZERO Save energy whether on or off



Double savings

A Smart Inverter Air conditioner helps you save energy twice, once while the air conditioner is on and again when it's off.



World Top Class EER 5.2, save your energy

With increased control technology, Samsung air conditioner helps you significantly reduce wasted energy. It has achieved World Top class EER by saving up to 80% in energy usage.

Samsung EER / COP 5.2 / 5.2

* K Series 9k Btu

Greatest energy efficiency!

You'll be amazed by the comparison. Samsung's air conditioner receives the World Top Class EER for high energy efficiency.



Samsung
EER/COP 5.2/5.2



Competitor A
EER/COP 5.0/5.1

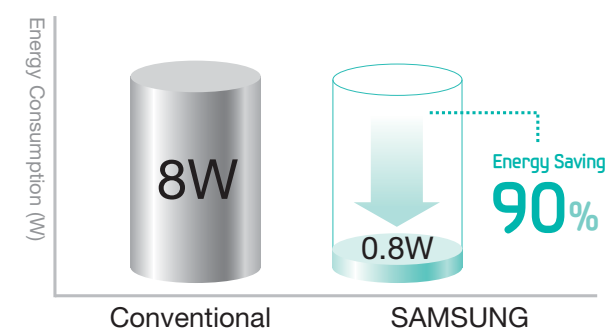


Competitor B
EER/COP 5.15/5.25



Zero Standby Power, save up to 90%

The improved control board installed in the Samsung air conditioner uses miniscule amounts of energy when the air conditioner is off, resulting in 90% more energy savings than conventional air conditioners.



Bigger savings, greater comfort

With the energy saved by using Zero Standby Power for a month, you can power up other home appliances for FREE!

Smart Saver

Smart Saver Enjoy worry-free fresh cooling



Save up to 31% on your electricity bill!

In Smart Saver mode, the air conditioner's compressor operates in the least amount of time to cool the room, which saves electricity. With the Smart Saver, stop worrying about your electricity bill and enjoy its convenience.

Up to **31%** Savings!

Set Temperature	Mode	Power Consumption (4hr)	Power Saving Rate (Compared to regular mode)
26°C	Regular Mode	1778	-
	Smart Saver	1230	31%
24°C	Regular Mode	2201	-
	Smart Saver	1930	12%

*Outdoor temperature at 30 degree
*Samsung test results

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.

02

Expertises

Clean and Fresh Air

Take A Deep Breath.

S-Plasma ion

Full HD Filter

S-Plasma ion (Virus Doctor)



Breathe healthier air



What is S-Plasma ion?

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



S-Plasma ion has received three awards, gaining recognition both at home and abroad.



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



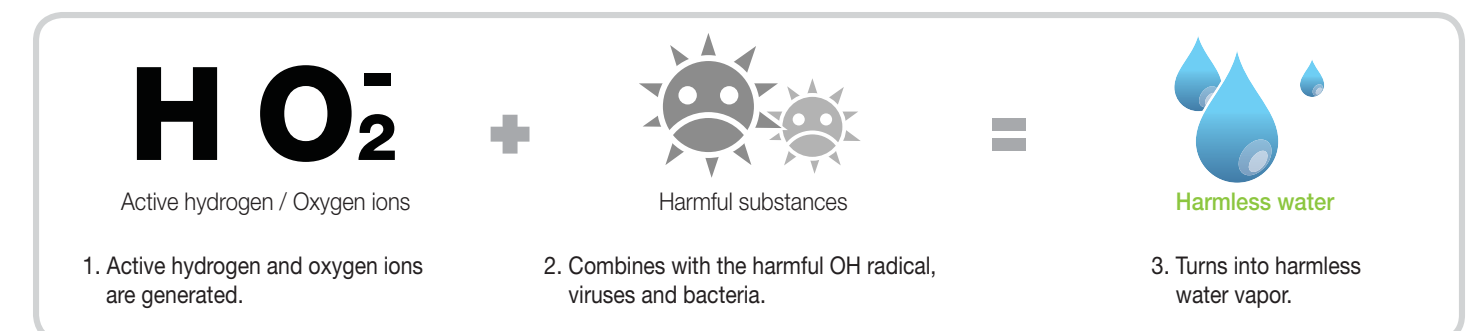
1st Air Day
Minister of the
Environmental Award



Winner of the
Jang Young Sil
Award

How does S-Plasma ion eliminate biological contaminants?

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



19.16m³ superb coverage

The S-Plasma ion purifies over 19.16m³ of space unlike its competitors. So, you can rely on clean, safe air even in large spaces.

Competitor	Samsung S-Plasma ion
4 m³	19.16 m³

*Samsung test results



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)

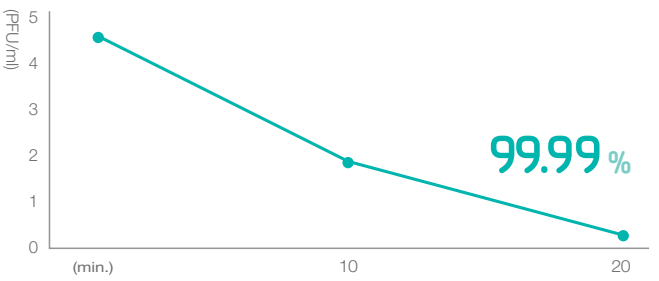
1) MRSA : Methicillin-Resistant Staphylococcus Aureus (Antibiotic-resistant nosocomial pathogens)
2) BAF : British Allergy Foundation (Certification institute)
3) RTI : Research Triangle Institute (Allergy research institute in the US)



Healthy Air _ Eliminate the influenza virus

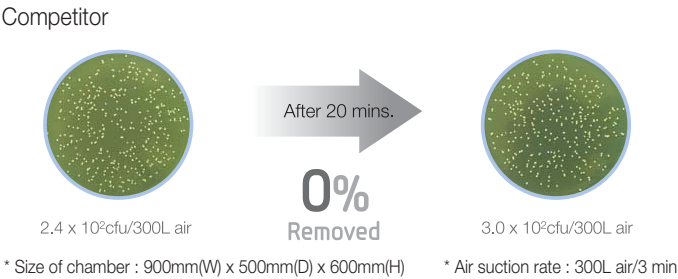
Viral removal testing was carried out on the influenza virus, the most common airborne virus, leading to confirmation of S-Plasma ion's ability to effectively eliminate more than 99% of influenza viruses in the air. (Certification by: Korea-Yonsei University, Chungnam National University / Japan - Kitasato Environmental Science Center, Medical Center)

Influenza subtype A H1N1 eradication experiment



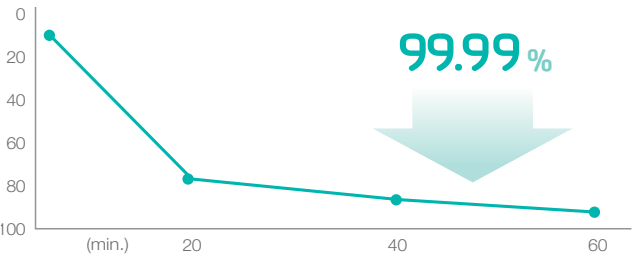
* Research carried out by : Professor Seo Sang-hui of Chungnam National University
(Developed the world's first H1N1 vaccine for the human body)

Microbial test results (Staphylococcus aureus)



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

S-Plasma ion



Clean Air _ Remove allergens in the air



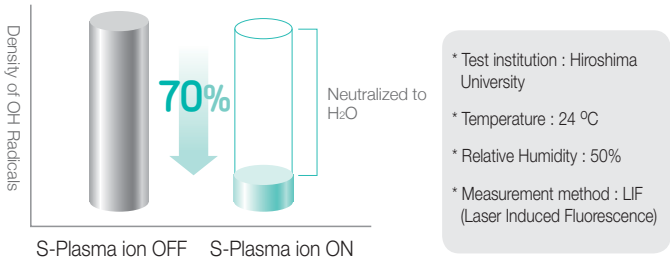
S-Plasma ion, Samsung's outstanding and unique technology, has received the BAF (United Kingdom) Seal.



Relaxing Air _ Generate relaxing oxygen ions

Neutralization of OH Radicals with the S-Plasma ion

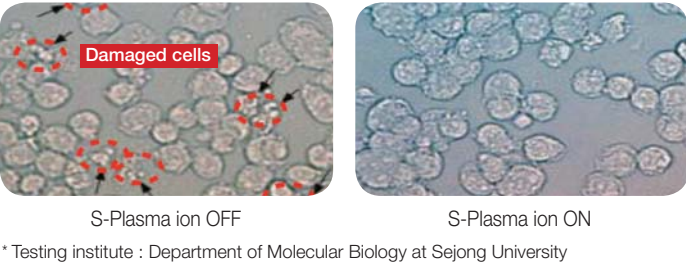
S-Plasma ion substantially reduces the level of concentration of OH Radicals, which cause aging and various skin diseases.



* Research paper on neutralizing OH Radicals (September 6, 2005, France)
* 7th Colloquium ASA (Atmospheric Spectroscopy Applications) * Atmospheric observation of OH Radical reactions with Atomic Hydrogen produced in Plasmas by LIF

OH Radical neutralization effects

Results of observing cells exposed to OH Radicals indicate that S-Plasma ion neutralizes OH Radicals and reduces cell damage.



What is an OH Radical?

An OH Radical has the strongest level of oxidizing power among oxygen free radicals and is known to cause skin damage and various degenerative diseases. This harmful substance generates compounds that have adverse effects on the human body as it reacts with harmful substances in the air such as VOCs (Volatile Organic Compounds).

Free from harmful positive ions

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



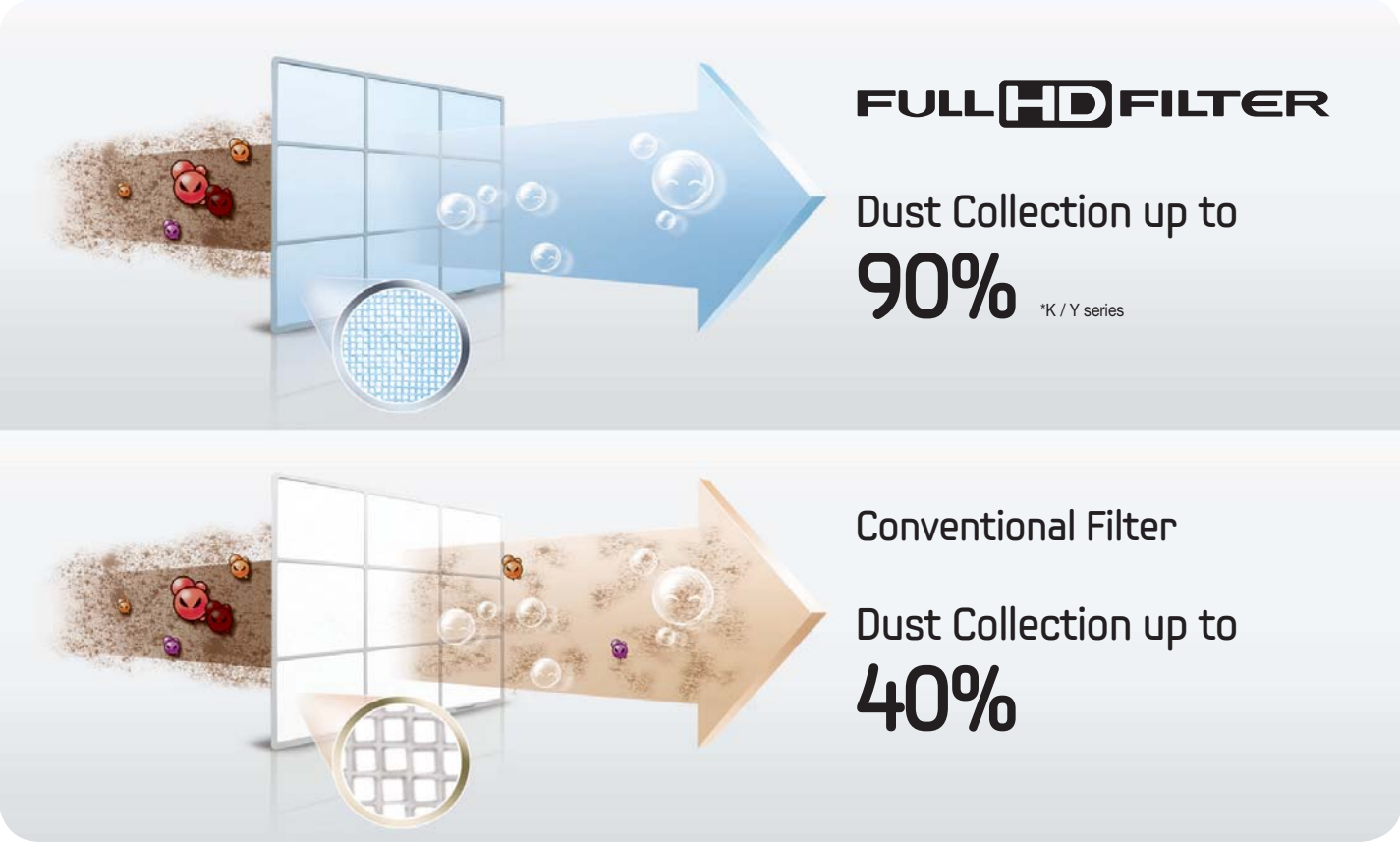
Free from ozone

S-Plasma ion 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, S-Plasma ion technology lets you breathe easy.

Full HD filter



Block up to 90% of dust



Full HD filter types

There are three different types of Full HD Filters. The ultra-compact filters remove even the smallest dust particles. Also the anti-bacteria coating and allergy care system not only remove bacteria and house dust but also eliminate allergens.

	Conventional	Full HD Filter		
		Full HD 60	Full HD 80	Full HD 90
X 40				
X 150				
Application Model		Max	P, T Series / Crystal	K, Y Series
Filament Dia.	211	134	60	57
Dust Collection	40%	60%	80%	90%
Feature		Anti-Bacteria coating		Allergy Care

Anti-Allergy tested by National Food analysis center of Japan

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.



Allergy care

Samsung's filter removes not only bacteria and dust particles but also reduces allergy symptoms.



Double Cleaning

Samsung enhanced purifying system with advanced filter and smart S-Plasma ion. S-Plasma ion 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 dust and allergy-causing bacteria.



STEP 2.

S-Plasma ion

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

03

Expertises

Comfort

Relax & Feel Better.

d'light cool

Wide Twin Blade (3D wind)

good'sleep

Turbo Cooling

Quiet Operation

d'light cool



Enjoy optimal comfort



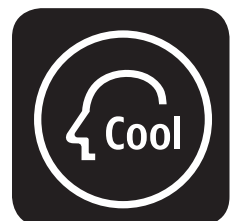
Optimum temperature for best comfort

People can feel comfort or discomfort even at the same temperature due to the varying level of humidity in the air. Samsung's d'light cool system automatically checks the current humidity and temperature and adjusts for the most pleasant environment.



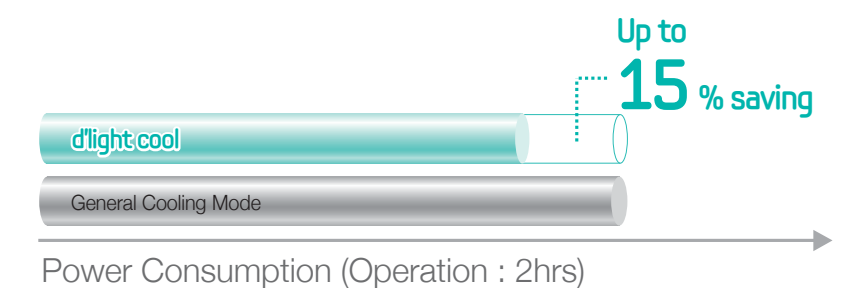
How d'light cool works

1. It first measures the humidity and temperature in the room.
2. It calculates what temperature and humidity is needed to reach the comfort index.
3. It adjusts the temperature and humidity automatically until the comfort index is reached.

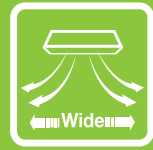


No more wasteful cooling

1. Accurately measure humidity & temperature to maintain the ideal comfort index.
2. No need to reset the temperature with automatic temperature control.
3. Customized cooling, which reduces energy waste.



Wide Twin Blade



Effective cooling even in larger areas

120° wider coverage

Samsung's Wide Twin Blade expands air coverage to 120 degrees. This improved distribution lets you feel comfortable faster.



Wider Heating / Cooling

*Samsung test results

90° vertical airflow

Samsung's Wide Twin Blade individually controls the airflow at optimum angles. The double layered blade provides long range airflow to deliver heating or cooling for larger spaces.



Direct Heating / Cooling

*Samsung test results

13m long range cooling

With long-range air flow that reaches to 13m, you can feel cool air instantly even though you are far from the air conditioner.



Long Range Cooling Coverage

*Samsung test results

3D Wind

With Samsung's Wide Twin Blade, the air flows throughout the room evenly. The wider and longer blades provide advanced airflow in the room allowing you to experience a cooler environment in a shorter time.



120° wider coverage

The airflow covers 120° angle for complete comfort.



90° vertical airflow

Two blades individually flows air down to the floor at 90°.



13m long range cooling

The air distributes further throughout the room with long-range airflow.

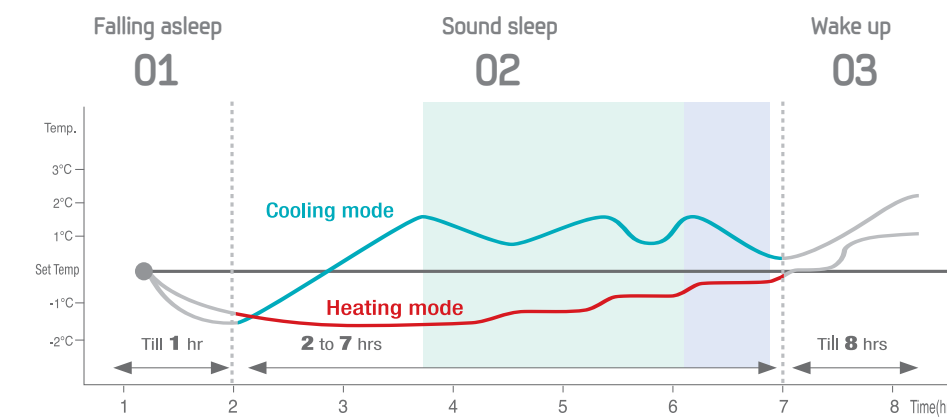
good'sleep



Sleep like a baby



Best temperature for deep sleep



01 Falling asleep stage

Eases you into sleep by dropping the temperature.

02 Sound sleep stage

Relaxes your body and raises your temperature slightly.

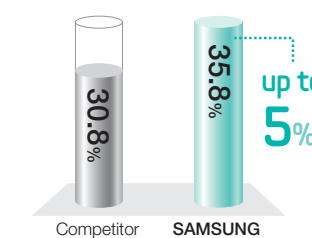
03 Wake up stage

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

Everything improved!

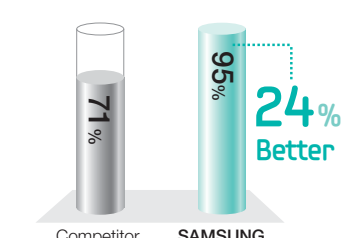
Sleep efficiency

The good'sleep mode increases sleep efficiency compared with competitors.



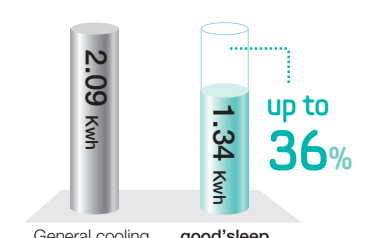
Pleasant skin temperature

The temperature setting of good'sleep maintains pleasant skin temperature, keeping you more relaxed and comfortable.



Energy saving

The good'sleep mode reduces up to 36% of electricity consumption compared with a normal cooling mode.



Turbo Cooling

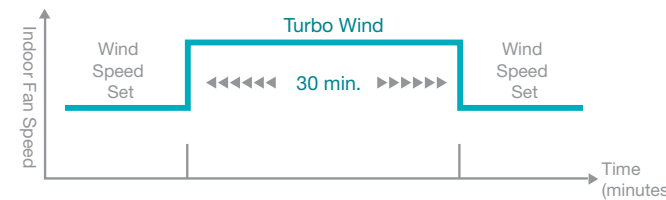


Instantly cool your space



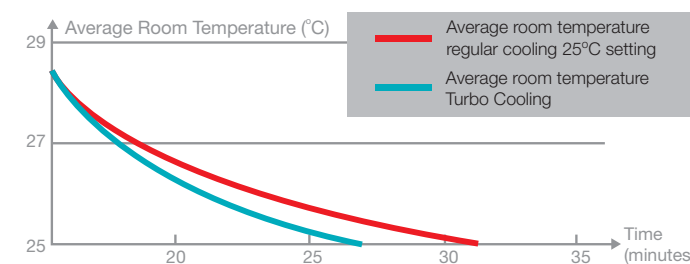
Maximum cooling!

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



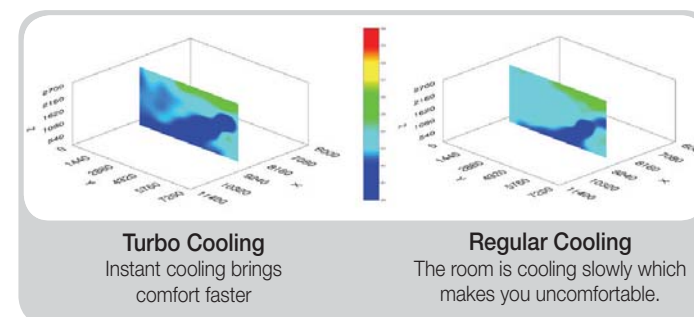
Cool down faster than ever

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



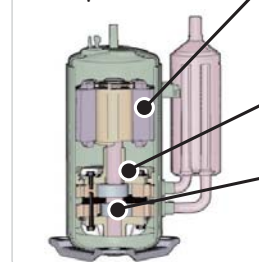
Relax with peace and quietness



Immensely low vibration with twin BLDC

The highly efficient twin BLDC compressor extremely reduces variation by 40% when compared to the conventional single BLDC compressor.

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

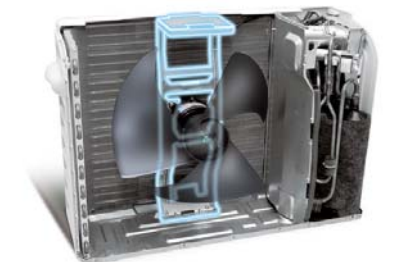
More stable fan spin

New fan hub's depth is increased from 90 mm to 119mm 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.

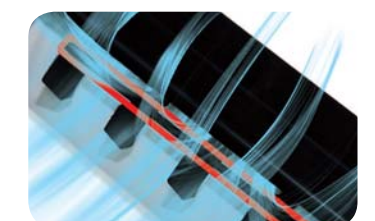


Seamless airflow

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

04
Expertises

Durability

No Sweat, No Worries.

Triple Protector

Stabilizer Free Operation

UTR Plus™



Triple Protector



Enjoy steady and stable cooling with ultimate durability

Triple Protector



Ultimate
Compressor



Advanced
Volt control



Anti-
Corrosion



Upgrade
2012

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.

Item	SAMSUNG	Competitor
Compressor Protection	Up to 140 V	Up to 170 V

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.

Item	SAMSUNG	Competitor
Controller Protection	From 80 V to 450 V	Up to 400 V
Smart Protection	Yes	No



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



Conventional

Stabilizer-Free Operation



Works without a stabilizer



"Built-in" stabilizer !

The Stabilizer Free air conditioner improves the look of your home since you don't need to install a separate stabilizer.



Exceptional comfort with powerful air

Samsung Built-in Stabilizer gives you fresh, powerful air in any circumstance. This air conditioner with built-in stabilizer regulates voltage stability to withstand even severe fluctuations and power outages.



Built-in stabilizer saves money

Since you don't need to invest in a separate stabilizer, Samsung Built-in Stabilizer helps save money.



UTR Plus™



Powerful cooling even at 54°C

High Torque Motor

- Increased maximum Torque
- Increased starting Torque for low voltage start

Low Noise Parts

- Valve stopper improvement
- Inclination muffler structure



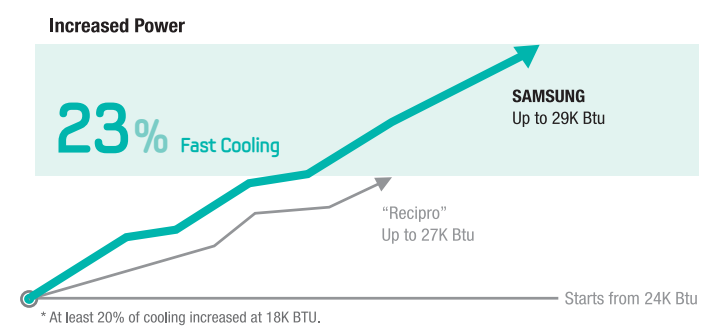
UTR (Ultra Tropical Rotary)

High Reliability Mechanical Parts

- Fixed upper bearing
- Special coated shaft and vane
- Internal OLP for high sensitivity

Consistent cooling in any kind of weather

The UTR Plus™ with its strong motor can quickly cool the air even in extreme hot climates of 54°C, and it is 23% faster than the conventional "Reciprocating" compressor.



Long-lasting coolness without breakage

Samsung's UTR Plus™ compressor extends its lifespan by enhancing its welding method with new durable material, so you can enjoy its powerful performance for a longer period of time.

Samsung UTR Plus Compressor			Reciprocating Compressor		
Components	Wear Rate (%)	Judgement	Components	Wear Rate (%)	Judgement
Shaft	5%	Excellent	Shaft	200%	Poor
Roller	15%	Good	Connecting Rod	90%	Not Satisfactory
Vane	1%	Excellent	Wrist Pin	48%	Good
Upper Bearing	17%	Excellent	Lower Bearing	108%	Not Satisfactory
Lower Bearing	12%	Good	Upper Bearing	82%	Not Satisfactory
Cylinder	11%	Excellent	Piston	85%	Not Satisfactory

Certifications for reliability and performance

Samsung UTR Plus™ received many certifications which prove its outstanding reliability and strong performance, ensuring your satisfaction and comfort.



Certified by Maryland CEE
(Max 9% higher EER than Reciprocating comp)



All UTRs are licensed by KSA
(Kingdom of Saudi Arabia)

05
Expertises

Convenience

Make Things Easier and Smarter.

Smart wi-fi

Multi Channel Condenser

Special Remote Control



*The smart phone display can be different with the real one.

Smart wi-fi



Control your cool anytime anywhere



* The smart phone display can be different with the real one.

How Smart wi-fi works from outside the house

Since you can control your air conditioner with your smart phone or computer, you never have to worry that you accidentally left the air conditioner on. With the smart device, you can easily turn it off from outside the house. Furthermore, you can turn it on before you arrive so you always enter a cool house.



How Smart wi-fi works from inside the house

You also can use your smart phone like a remote control because it contains most of the functions of the remote control.



Inside the house			Outside the house
Power on / off	Operation mode	Temperature setting	Power on / off
S-Plasma ion	Smart saver	Quiet mode	Operation mode
d'light cool	Auto clean	good'sleep	Temperature setting

MCC (Multi Channel Condenser)



Achieve high efficiency through innovation

Smaller size for easier installation

Samsung's MCC heat exchanger also makes the outdoor unit smaller, which allows for easier transfer and convenient installation.



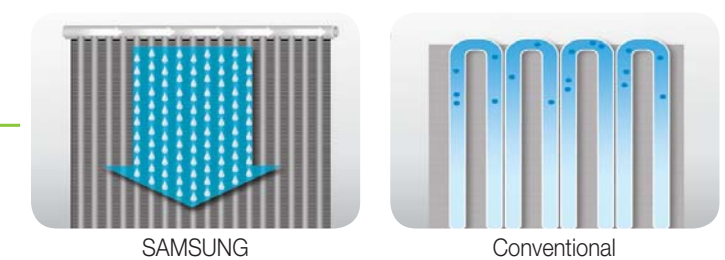
Remarkable innovation for the heat exchanger!

Samsung's Multi Channel Condenser increases the heat exchange surface with multi channel flow, and with its new flat surface design, it reduces air resistance compared to conventional heat exchangers. Therefore, the cooling efficiency has been improved!



Instant heat exchange for faster cooling!

Compared to conventional ones, Samsung MCC heat exchanger performs faster, resulting in faster heat exchange. So, your space can be cooled instantly.



Special remote control



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.

K-series

Y-series

P-series

T-series

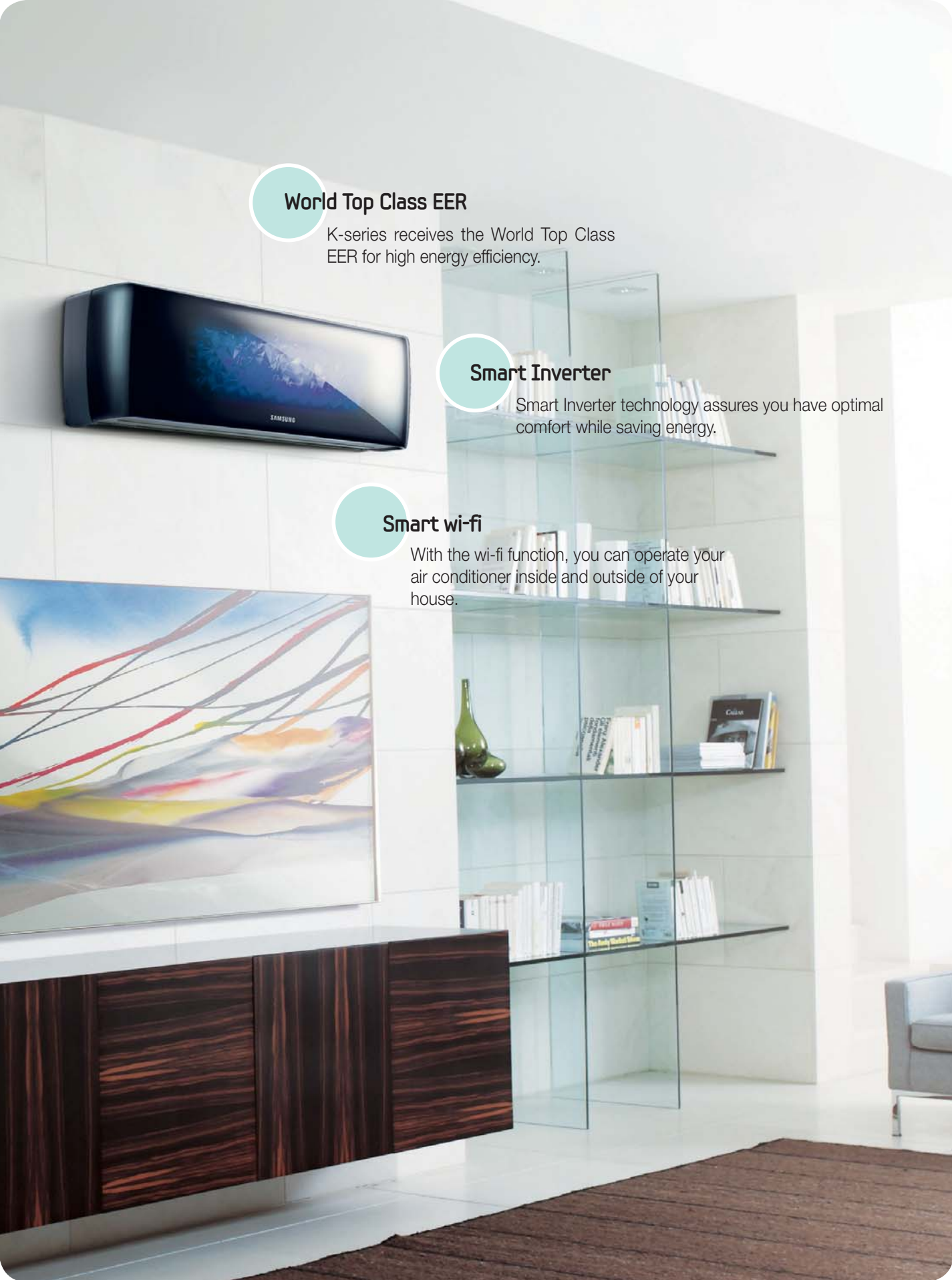
Crystal

Max



K-Series (Jungfrau Flagship)

The elaborately designed Samsung's K-Series air conditioner helps to reduce energy consumption to save money, so you can enjoy both the best in style and energy efficiency.



Additional features

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

Zero Standby Power
The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.

S-Plasma ion
S-Plasma ion 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 90% of dust and allergy causing bacteria.

3D Wind
The Wide Twin Blades and 4 Way Auto Swing provide advanced airflow all around the room for even distribution.

Smart wi-fi
With the newly added wi-fi function, you can control your air conditioner without space restraints.

d'light cool
This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.

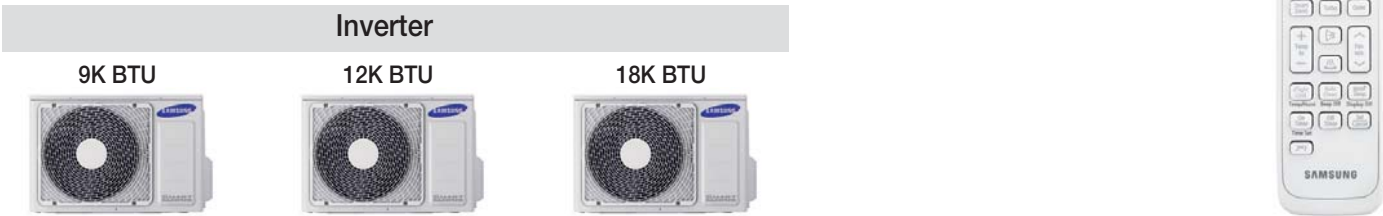
good'sleep
good'sleep automatically adjusts the temperature to create the most comfortable environment at night.

Smart Saver	Wide-Twin Blade	Allergy Care	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Twin BLDC	Indoor Temp. Display	Display On/Off
Beep On/Off	Real-time timer	Auto Air Direction (Up/Down)	Auto Air Direction (Left/Right)
Auto Restart	Auto Changeover		

Available color & dimension



Outdoor units & remote control



Y-Series (Jungfrau Premium)

With outstanding purifying technology and consistent cooling power in any circumstance, the Samsung Y-Series air conditioner ensures comfort.



Inimitable Design

The snow white color and its minimal design add modern sophistication to the room.

Smart Inverter

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

S-Plasma ion

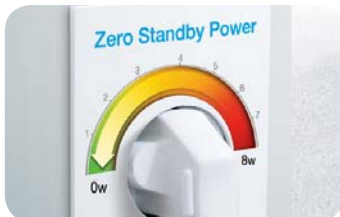
S-Plasma ion eliminates 99% of harmful contaminants in the air.

Additional features



Smart Inverter

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



Zero Standby Power

The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.



S-Plasma ion

S-Plasma ion 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 90% of dust and allergy causing bacteria.



3D Wind

The Wide Twin Blades and 4 Way Auto Swing provide advanced airflow all around the room for even distribution.



d'light cool

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.



good'sleep

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



Smart Saver

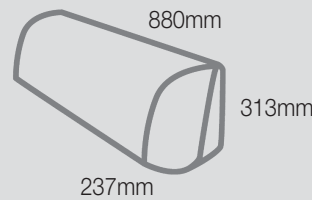
In Smart Saver mode, the compressor of the air conditioner operates in the least amount of time to cool the room, which saves electricity.

Wide-Twin Blade	Allergy Care	Auto Clean	Natural Breeze
Turbo Cooling	Dehumidification	Auto Mode	Fan Mode
Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)	Fin Protector (Anti-corrosion Fin)
Twin BLDC	Indoor Temp. Display	Display On/Off	Beep On/Off
Real-time timer	Auto Air Direction (Up/Down)	Auto Air Direction (Left/Right)	Auto Restart
Auto Changeover			

Available color & dimension



9K / 12K / 18K BTU



Outdoor units & remote control



P-Series (Maldives)

Rely on the Samsung P-Series air conditioner for longer lasting coolness, sophisticated style, and healthier living.



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 causing allergy.

S-Plasma ion

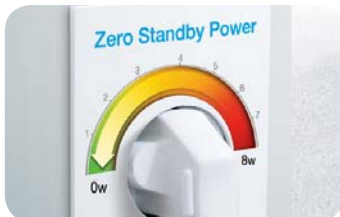
S-Plasma ion eliminates 99% of harmful contaminants in the air.

Additional features



Smart Inverter

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



Zero Standby Power

The air conditioner uses almost 0W of energy when it's off, resulting in 90% more energy savings.



S-Plasma ion (optional)

S-Plasma ion 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	good'sleep	Anti Bacteria Coating	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Twin BLDC	BLDC	Multi-channel Condensor
24-Hour timer	Auto Air Direction (Up/Down)	Manual Air Direction (Left/Right)	Auto Restart
Auto Changeover			

Available colors & dimensions



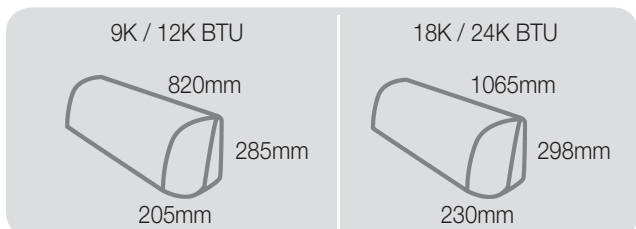
Blue



White

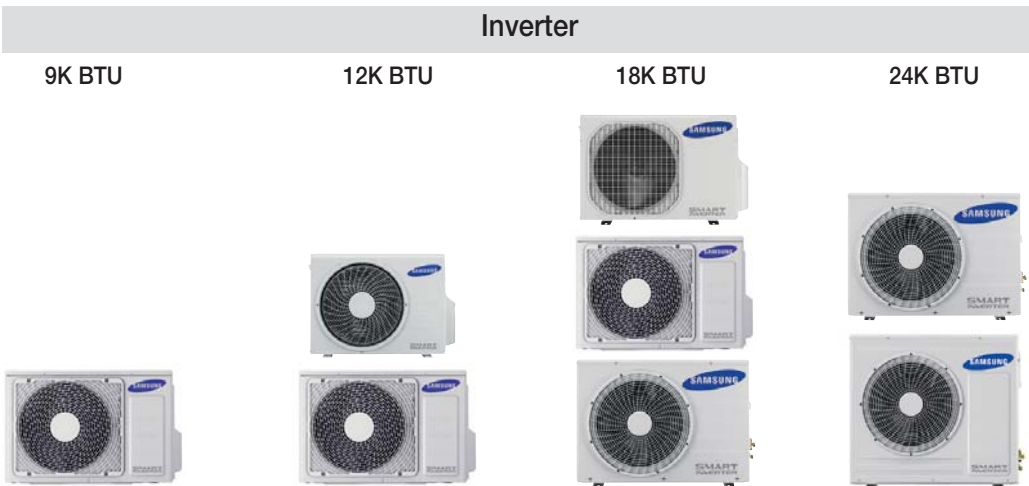


Silver



* The colors may be different depending on region.

Outdoor units & remote control



T-Series (Boracay)

In the hottest of summers, depend on the T-Series to cool your space quickly, so you can enjoy coolness all day long.



Turbo Cooling

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

Full HD Filter

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

Triple Protector

Triple Protector offers greater durability, higher efficiency, and more reliability.

Additional features



Smart Saver

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



Full HD Filter

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



Turbo Cooling

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



Triple Protector

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

Zero Standby Power	good'sleep	Anti-Bacteria Coating	Auto Clean
Natural Breeze	Dehumidification	Auto Mode	Fan Mode
Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)	Fin Protector (Anti-corrosion Fin)
Multi-channel Condensor	24-Hour timer	Auto Air Direction (Up/Down)	Manual Air Direction (Left/Right)
Auto Restart	Auto Changeover		

Available colors & dimensions



Silver

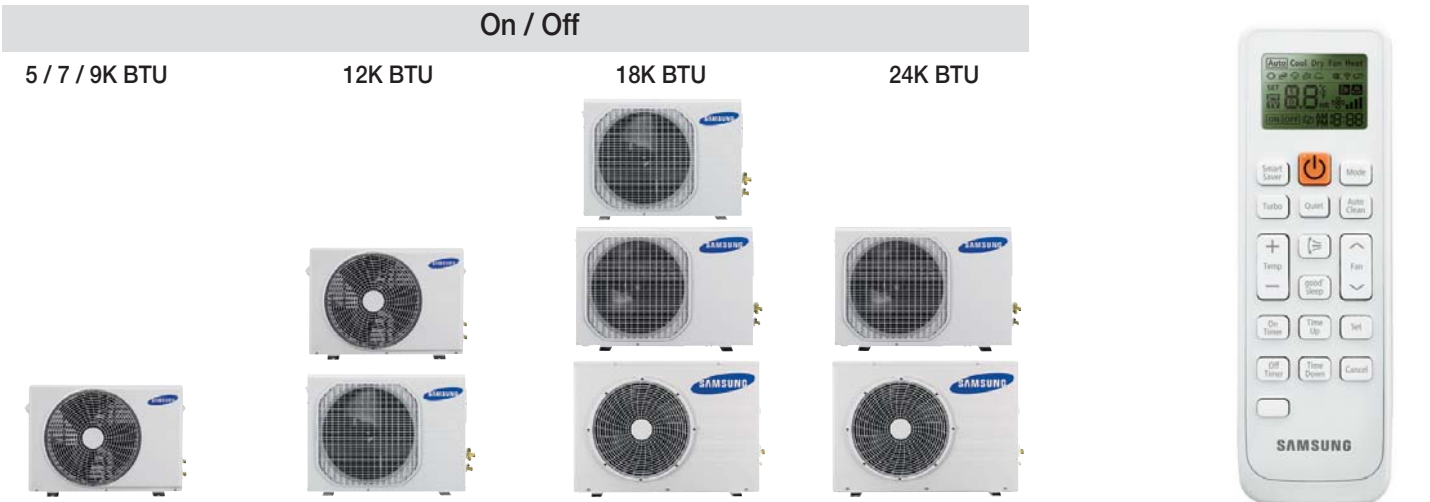


Blue

5K / 7K BTU	9K BTU	9K / 12K BTU	12K / 18K BTU	18K / 24K BTU

* The colors may be different depending on region.

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.



S-Plasma ion

S-Plasma ion eliminates 99% of harmful contaminants in the air.

Full HD Filter

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

Filter Cleaning Indicator

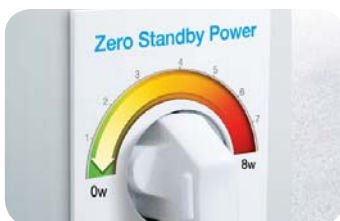
The indicator automatically alerts you when the filter needs to be cleaned.

Additional features



Smart Inverter (optional)

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



Zero Standby Power

The air conditioner uses almost 0W of energy when it's off, resulting in 90% more energy savings.



Smart Saver

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



S-Plasma ion (optional)

S-Plasma ion 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.



d'light cool (optional)

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.



good'sleep

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



Filter Cleaning Indicator (optional)

The indicator automatically alerts you when the filter needs to be cleaned by illuminating blue light.

Deodorizing Filter	Catechin Filter	Anti-Bacteria Coating	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Twin BLDC	BLDC	Multi-channel Condensor
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



Silver



Blue

5K / 7K / 9K / 12K BTU	12K / 18K BTU	18K / 24K BTU
 820mm 285 mm 190mm	 890mm 285 mm 190mm	 1065mm 298 mm 222mm

* The colors may be different depending on region.

Outdoor units & remote control

Inverter			On / Off				
9K / 12K BTU	18K BTU	24K BTU	9K BTU	12K BTU	18K BTU	24K BTU	

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 causing allergy.

Additional features



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.



Turbo Cooling

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



Triple Protector

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

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

Available colors & dimensions



White



Gray

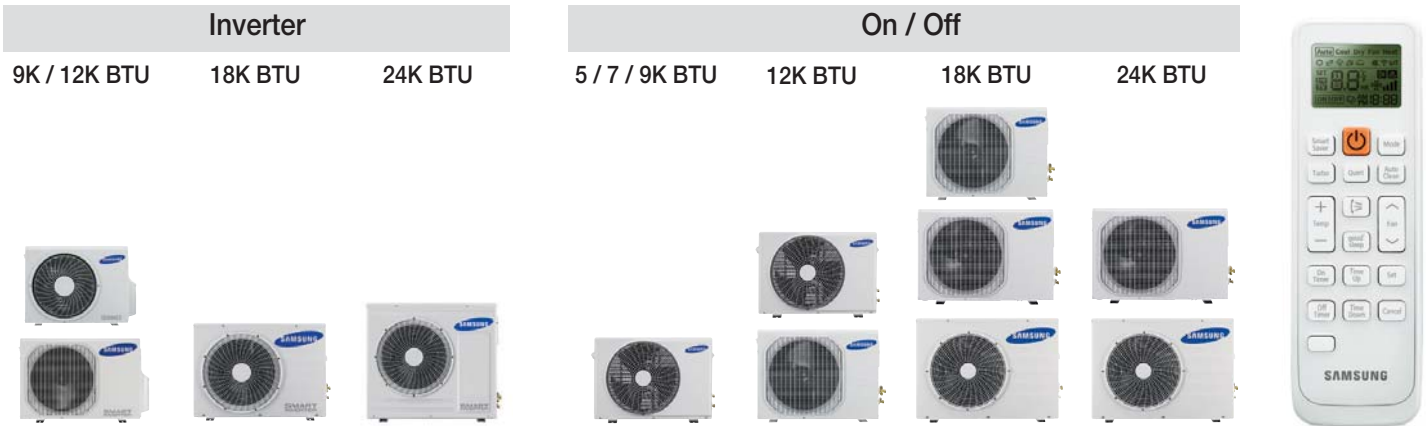


Light Blue

5K / 7K BTU	9K BTU	9K / 12K BTU	9K / 12K / 18K BTU	18K / 24K BTU	30K / 36K BTU
728mm	728mm	820mm	890mm	1065mm	1279mm
255mm	255mm	285mm	285mm	298mm	345mm
170mm	185mm	190mm	190mm	222mm	229mm

* The color and size may be different depending on region.

Outdoor units & remote control



Specialities

A delightful day with good'sleep mode

According to the stage of sleep, temperatures are adjusted so you fall into deep sleep faster and get up more refreshed in for a great start to your day.

01 Falling asleep stage

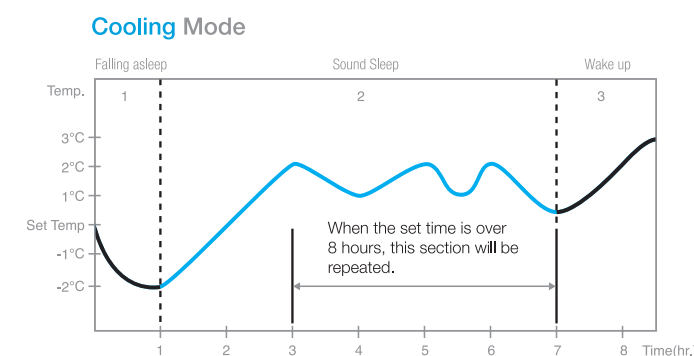
Eases you into sleep by dropping the temperature.

02 Sound sleep stage

Relaxes your body and raises your temperature slightly.

03 Wake up stage

Allows you to wake up in comfortable intermittent air, helping you feel refreshed.



Full HD filter

The Full High Density Filter collects up to 60% of dust and harmful bacteria.



Convenient control

01 Smart Display

Shows you the operating status.

02 Timer button

Sets the 24hr On / Off timer.

03 good'sleep button

Sets the sleep timer. The air conditioner operates for 6 hours and turns off automatically in Sleep mode.

04 Air flow direction adjustment button

Moves inner air flow blades horizontally.

05 Fan speed adjustment button(s)

Select 3 levels of fan speed: High, Med, and Low.

06 On / Off button

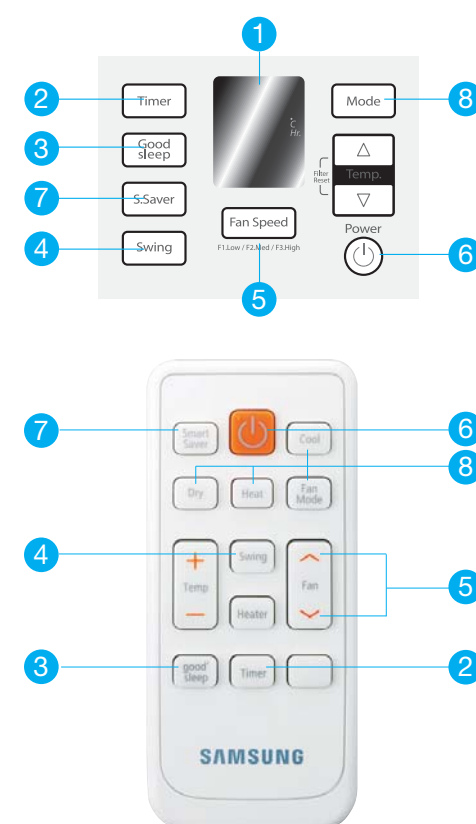
Turns on / off the air conditioner.

07 Smart Saver button

Smart Saver operates the air conditioner automatically in the least amount of time necessary to cool the room, which saves electricity.

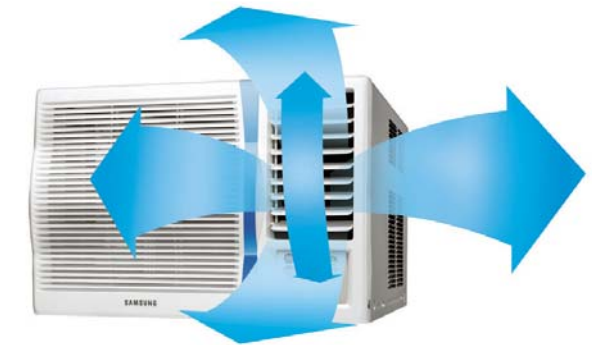
08 Mode selection button(s)

Select the Cool, Heat, Dry or Fan mode



4-way air direction

The Window Type air conditioner provides fresh air from 4 directions. Although compact in size, it powerfully emits air into every corner of the room.



Slide-out chassis

The Window Type air conditioner is easy to install because the chassis can be detached by sliding it out. Just install the lightweight cabinet on the wall or in a window and then insert the unit in the cabinet by sliding it in.



Dehumidification

The Window Type air conditioner removes humidity, a big discomfort in summer, keeping your room pleasant and fresh.

Rust-free cabinet

Air conditioners' cabinets tend to get rusty in areas of high humidity. But, the cabinets of Samsung air conditioners are coated with an original anti-corrosion agent to prevent rust and to ensure long durability.



Samsung's rust-free cabinet material after 1000 hours



Normal cabinet material after 600 hours

Ventilation control

You can ventilate by adjusting ventilation lever. It will make your room fresh and pleasant through introducing outside air.



Easy-to access filter

Slide the filter in and out without removing the front grille for easy cleaning. Dust, soot, and pollen in the air are efficiently collected and easily removed.



Specifications

Europe

CIS

America

Southeast Asia

Middle East

Africa

Southwest Asia



Europe

			K-series (Jungfrau-F)			Y-series (Jungfrau-P)		
Model Code			AQV09KBBN	AQV12KBBN	AQV18KBBN	AQV09YWAN	AQV12YWAN	AQV18YWAN
AC Type			INV. HP	INV. HP	INV. HP	INV. HP	INV. HP	INV. HP
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Performance								
Capacity	Cooling	Btu/hr.	8,530	11,942	17,060	8,530	11,942	17,060
		(min-max)	3378-11260	3378-13648	5459-20472	3378-10918	3378-13648	5459-20472
		Kcal/hr.	2,150	3,010	4,300	2,150	3,010	4,300
		(min-max)	850-2840	850-3870	1380-5160	850-2750	850-3870	1380-5160
		kW	2.5	3.5	5	2.5	3.5	5.0
		(min-max)	0.99-3.3	0.99-4.0	1.6-6.0	0.99-3.3	0.99-4.0	1.6-6.0
	Heating	Btu/hr.	10,918	13,648	20,472	10,918	13,648	20,472
		(min-max)	3378-20472	3378-22519	4094-25590	3378-16036	3310-18425	4094-25590
		Kcal/hr.	2,752	3,440	5,160	3,010	3,440	5,160
		(min-max)	850-5160	850-6020	1030-6450	850-4040	830-4640	1030-6450
		kW	3.2	4.0	6.0	3.2	4.0	6.0
		(min-max)	0.99-6.0	0.99-6.6	1.2-7.5	0.99-4.7	0.99-5.4	1.2-7.5
Energy Efficiency	Cooling	EER(Btu/W)	17.7	15.4	11.0	16.4	14.0	11.0
		EER(W/W)	5.20	4.50	3.21	4.80	4.10	3.21
	Heating	COP(W/W)	5.20	4.50	3.61	4.80	4.10	3.61
Moisture Removal		ℓ/hr.	0.8	1.3	2.0	0.6	1.1	2.0
Air Circulation (Max)		m³/min	9.6	10.1	14.4	10.3	11.0	14.4
Noise Level	Indoor High/Low	dB	39/20	41/20	43/26	39/21	41/21	43/26
	Outdoor High	dB	45	45	50	45	45	50
Electrical Data								
Power Source		V/Hz/Ø	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power Consumption	Cooling	W	480	780	1560	520	850	1560
	Heating	W	620	890	1660	670	980	1660
Operating Current	Cooling	A	2.4	3.8	7.4	2.5	3.9	7.4
	Heating	A	3.0	4.1	7.7	3.1	4.5	7.7
Dimension & Loading Q'ty								
Net Dimension (W*H*D)	Indoor	mm	880*313*237	880*313*237	880*313*237	880*313*237	880*313*237	880*313*237
	Outdoor	mm	790*545*285	790*545*285	790*545*285	790*545*285	790*545*285	790*545*285
Net Weight	Indoor	kg	12.1	12.1	12.4	11.2	11.2	12.4
	Outdoor	kg	35.5	35.5	37.7	31.2	31.2	37.7
Shipping Weight	Indoor	kg	14.7	14.7	14.9	13.9	13.9	14.9
	Outdoor	kg	38.6	38.6	40.8	34.3	34.3	40.8
Loading Q'ty	W Pipe	20/40/40HC	83/172/198	83/172/198	83/172/198	83/172/198	83/172/198	83/172/198
	W/O Pipe	20/40/40HC	84/174/198	84/174/198	84/174/198	84/174/198	84/174/298	84/174/198
Technical Information								
SVC Valve	Liquid	OD	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
	Gas	OD	Ø 9.52mm	Ø 9.52mm	Ø 12.7mm	Ø 9.52mm	Ø 9.52mm	Ø 12.7mm
Piping Length	Max	m	15	15	30	15	15	30
Piping Height	Max	m	8	8	15	8	8	15
Features								
Air Purification	S-Plasma ion		•	•	•	•	•	•
	Auto Roof Shutter		-	-	-	-	-	-
	Full HD Filter		90	90	90	90	90	90
	DNA Filter		-	-	-	-	-	-
	Deodorizing Filter		-	-	-	-	-	-
	Catechin Filter		-	-	-	-	-	-
	Allergy Care		•	•	•	•	•	•
	Anti-bacteria Coating		-	-	-	-	-	-
	Auto Clean		•	•	•	•	•	•
	Wide Twin Blade		•	•	•	•	•	•
Air Flow	Optimal Single Blade		-	-	-	-	-	-
	Fan speed(Steps)		4	4	4	4	4	4
	Air Direction (Up/Down)		Auto	Auto	Auto	Auto	Auto	Auto
	Air Direction (Left/Right)		Auto	Auto	Auto	Auto	Auto	Auto
	Natural Breeze		•	•	•	•	•	•
Operating Mode	d'light Cool		•	•	•	•	•	•
	good'sleep		•	•	•	•	•	•
	Smart Saver		•	•	•	•	•	•
	Turbo		•	•	•	•	•	•
	Dehumidification		•	•	•	•	•	•
	Auto Mode		•	•	•	•	•	•
	Fan Mode		•	•	•	•	•	•
	Quiet Mode		•	•	•	•	•	•
	Smart wifi		•	•	-	-	-	-
	Filter Cleaning Indicator		-	-	-	-	-	-
Convenience	Temp. Display		•	•	•	•	•	•
	Remote Controller		•	•	•	•	•	•
	Display On/Off		•	•	•	•	•	•
	Beep On/Off		•	•	•	•	•	•
	Real-time Timer		•	•	•	•	•	•
	24-Hour Timer		-	-	-	-	-	-
	Auto Restart		•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•
	Compressor Type		Twin BLDC	Twin BLDC	Twin BLDC	BLDC	BLDC	Twin BLDC
	Anti-corrosion Fin		•	•	•	•	•	•
Low Ambient	Multi-channel Condensor		-	-	-	-	-	-
	Cooling	°C	-10-46	-10-46	-10-46	-10-46	-10-46	-10-46
	Heating	°C	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24

* Features may vary by model, as a continuing policy of product improvement, the design and specifications are subject to change without notice.

P-series (Maldives++)				P-series (Maldives)			
AQV09PMEN	AQV12PMEN	AQV18PMBN	AQV24PMBN	AQV09PSBN	AQV12PSBN	AQV18PSBN	AQV24PSBN
INV. HP	INV. HP	INV. HP	INV. HP	INV. HP	INV. HP	INV. HP	INV. HP
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
8,500	11,940	17,060	23,202	8,530	11,942	17,060	23,202
3300-11300	3300-13650	5459-20472	7506-27296	3310-11260	3310-13648	5459-20472	7506-27296
2,150	3,000	4,300	5,848	2,150	3,010	4,300	5,848
835-2840	835-3440	1380-5160	1890-6880	830-2840	830-3440	1380-5160	1890-6880
2.5	3.5	5	6.8	2.5	3.5	5	6.8
0.97-3.3	0.97-4.0	1.6-6.0	2.2-8.0	0.97-3.3	0.97-4.0	1.6-6.0	2.2-8.0
11,300	13,650	20,472	26,614	11,260	13,648	20,472	26,614
3300-16000	3300-18400	4094-25590	6483-34120	3310-16036	3310-18425	4094-25590	6483-34120
2,840	3,440	5,160	6,708	2,838	3,440	5,160	6,708
835-4040	835-4650	1030-6450	1630-8600	830-4040	830-4640	1030-6450	1630-8600
3.3	4.0	6.0	7.8	3.3	4.0	6.0	7.8
0.97-4.7	0.97-5.4	1.2-7.5	1.9-10.0	0.97-4.7	0.97-5.4	1.2-7.5	1.9-10.0
14.7	12.3	11.6	11.0	13.7	11.3	11.6	11.0
4.30	3.60	3.40	3.21	4.02	3.30	3.40	3.21
4.10	3.70	3.61	3.61	4.10	3.70	3.61	3.61
0.9	1.4	2.0	3.1	0.9	1.4	2.0	3.1
11.3	11.5	13.8	17.1	9.0	9.8	13.8	17.1
36/21	38/21	40/30	41/30	36/21	38/21	40/30	41/30
45	45	53	55	45	45	53	55
220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
580	970	1470	2120	620	1060	1470	2120
800	1080	1660	2160	800	1080	1660	2160
3.2	4.8	6.8	9.5	3	4.8	6.8	9.5
3.8	4.9	7.7	10	3.8	4.9	7.7	10
820*285*205	820*285*205	1065*298*230	1065*298*230	820*285*205	820*285*205	1065*298*230	1065*298*230
790*545*285	790*545*285	790*545*285	880*798*310	790*545*285	790*545*285	790*545*285	880*798*310
8.2	8.2	11.5	11.5	8.2	8.2	11.5	11.5
31.2	31.2	38	53.5	30.5	30.5	38	53.5
10.2	10.2	14.5	14.5	10.4	10.4	14.5	14.5
34.3	34.3	42	58	34.5	34.5	42	58
83/172/198	83/172/198	78/162/181	52/108/124	83/172/198	83/172/198	78/162/181	52/108/124
84/184/210	84/184/210	78/164/186	52/108/124	84/184/210	84/184/210	78/164/186	52/108/124
Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
Ø 9.52mm	Ø 9.52mm	Ø 12.7mm	Ø 15.88mm	Ø 9.52mm	Ø 9.52mm	Ø 12.7mm	Ø 15.88mm
15	15	30	30	15	15	30	30
8	8	15	15	8	8	15	15
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
90	90	90	90	80	80	80	80
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
-	-	-	-	•	•	•	•
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
4	4	4	4	4	4	4	4
Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
BLDC	BLDC	Twin BLDC	Twin BLDC	BLDC	BLDC	Twin BLDC	Twin BLDC
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
-10-46	-10-46	-10-46	-10-46	-10-46	-10-46	-10-46	-10-46
-15-24	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24

* Features may vary by model, as a continuing policy of product improvement, the design and specifications are subject to change without notice.

Europe

			P-series (Maldives)				T-series (Boracay)	
Model Code			AQV09P\CNEUR	AQV09PWCNEE	AQV12P\CNEUR	AQV12PWCNEE	AQO9TSBNEUR	AQO9TSBNCNEE
AC Type			INV. HP	INV. HP	INV. HP	INV. HP	HP	HP
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Performance								
Capacity	Cooling	Btu/hr.	8,500	8,500	11,300	11,300	9,384	9,384
		(min-max)	2259-10918	2259-10918	2559-12966	2559-12966	-	-
		Kcal/hr.	2,150	2,150	2,838	2,838	2,365	2,365
		(min-max)	650-2750	650-2750	650-3270	650-3270	-	-
		kW	2.5	2.5	3.3	3.3	2.8	2.8
	Heating	(min-max)	0.75-3.2	0.75-3.2	0.75-3.8	0.75-3.8	-	-
		Btu/hr.	11,300	11,300	13,600	13,600	9,896	9,896
		(min-max)	3241-13989	3241-13989	3241-16378	3241-16378	-	-
		Kcal/hr.	2,838	2,838	3,440	3,440	2,494	2,494
		(min-max)	820-3530	820-3530	820-4130	820-4130	-	-
Energy Efficiency	Cooling	kW	3.3	3.3	4.0	4.0	2.9	2.9
		(min-max)	0.95-4.1	0.95-4.1	0.95-4.8	0.95-4.8	-	-
		EER(Btu/W)	11.6	11.6	11.0	11.0	11.0	11.0
		EER(W/W)	3.40	3.40	3.21	3.21	3.22	3.22
		COP(W/W)	3.63	3.63	3.61	3.61	3.61	3.61
Moisture Removal		ℓ/hr.	1.0	1.0	1.1	1.1	1.0	1.0
Air Circulation (Max)		m³/min	8.6	8.6	9.9	9.9	7.5	7.5
Noise Level	Indoor High/Low	dB	35/21	35/21	37/21	37/21	32/24	32/24
	Outdoor High	dB	45	45	47	47	47	47
Electrical Data								
Power Source		V/Hz/Ø	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power Consumption	Cooling	W	740	740	1030	1030	855	855
	Heating	W	910	910	1110	1110	803	803
Operating Current	Cooling	A	3.8	3.8	4.8	4.8	4.1	4.1
	Heating	A	4.4	4.4	5.2	5.2	3.7	3.7
Dimension & Loading Q'ty								
Net Dimension (W*H*D)	Indoor	mm	820*285*205	820*285*205	820*285*205	820*285*205	820*285*210	820*285*210
	Outdoor	mm	720*548*265	720*548*265	720*548*265	720*548*265	660*470*240	660*470*240
Net Weight	Indoor	kg	8.2	8.2	8.2	8.2	8	8
	Outdoor	kg	26.5	26.5	27.5	27.5	23.2	23.2
Shipping Weight	Indoor	kg	10.4	10.4	10.4	10.4	10.2	10.2
	Outdoor	kg	29.5	29.5	30.5	30.5	25.5	25.5
Loading Q'ty	W Pipe	20/40/40HC	93/193/225	93/193/225	93/193/225	93/193/225	117/240/274	117/240/274
	W/O Pipe	20/40/40HC	95/200/232	95/200/232	95/200/232	95/200/232	123/253/285	123/253/285
Technical Information								
SVC Valve	Liquid	OD	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
	Gas	OD	Ø 9.52mm	Ø 9.52mm	Ø 9.52mm	Ø 9.52mm	Ø 9.52mm	Ø 9.52mm
Piping Length	Max	m	15	15	15	15	15	15
Piping Height	Max	m	7	7	7	7	7	7
Features								
Air Purification	S-Plasma ion		-	-	-	-	-	-
	Auto Roof Shutter		-	-	-	-	-	-
	Full HD Filter		80	80	80	80	80	80
	DNA Filter		-	-	-	-	-	-
	Deodorizing Filter		-	-	-	-	-	-
	Catechin Filter		-	-	-	-	-	-
	Allergy Care		-	-	-	-	-	-
	Anti-bacteria Coating		•	•	•	•	•	•
Air Flow	Auto Clean		•	•	•	•	•	•
	Wide Twin Blade		-	-	-	-	-	-
	Optimal Single Blade		•	•	•	•	•	•
	Fan speed(Steps)		4	4	4	4	4	4
	Air Direction (Up/Down)		Auto	Auto	Auto	Auto	Auto	Auto
	Air Direction (Left/Right)		Manual	Manual	Manual	Manual	Manual	Manual
	Natural Breeze		•	•	•	•	•	•
	Operating Mode	d'light Cool		-	-	-	-	-
Convenience	good'sleep		•	•	•	•	•	•
	Smart Saver		•	•	•	•	•	•
	Turbo		•	•	•	•	•	•
	Dehumidification		•	•	•	•	•	•
	Auto Mode		•	•	•	•	•	•
	Fan Mode		•	•	•	•	•	•
	Quiet Mode		•	•	•	•	-	-
	Smart wifi		-	-	-	-	-	-
Outdoor Unit	Filter Cleaning Indicator		-	-	-	-	-	-
	Temp. Display		-	-	-	-	-	-
	Remote Controller		•	•	•	•	•	•
	Display On/Off		-	-	-	-	-	-
	Beep On/Off		-	-	-	-	-	-
	Real-time Timer		-	-	-	-	-	-
	24-Hour Timer		•	•	•	•	•	•
	Auto Restart		•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•
	Compressor Type		BLDC	BLDC	BLDC	BLDC	ROTARY	ROTARY
Anti-corrosion Fin		•	•	•	•	•	•	
Multi-channel Condensor		-	-	-	-	-	-	
Low Ambient	Cooling	°C	16~46	16~46	16~46	16~46	15~43	15~43
	Heating	°C	-10~24	-10~24	-10~24	-10~24	-5~24	-5~24

* Features may vary by model, as a continuing policy of product improvement, the design and specifications are subject to change without notice.

T-series (Boracay)						Crystal	
AQ12TSBNEUR	AQ12TSBNCEE	AQ18TSBNEUR	AQ18TSBNCEE	AQ24TSBNEUR	AQ24TSBNCEE	AQV09EWCN	AQV12EWCN
HP	HP	HP	HP	HP	HP	INV. HP	INV. HP
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11,944	11,944	17,745	17,745	23,205	23,205	8,530	11,940
-	-	-	-	-	-	3,378-10,919	3,380-13,650
3,010	3,010	4,472	4,472	5,848	5,848	2,150	3,010
-	-	-	-	-	-	851-2752	850-3,440
3.5	3.5	5.2	5.2	6.8	6.8	2.5	3.5
-	-	-	-	-	-	0.99-3.2	0.99-4.0
12,968	12,968	19,793	19,793	23,888	23,888	10,919	13,648
-	-	-	-	-	-	3,378-17,743	3,378-20,470
3,268	3,268	4,988	4,988	6,020	6,020	2,752	3,440
-	-	-	-	-	-	851-4471	851-5,160
3.8	3.8	5.8	5.8	7	7	3.2	4.0
-	-	-	-	-	-	0.99-5.2	0.99-6.0
11.0	11.0	9.6	9.6	9.6	9.6	15.7	13.7
3.21	3.21	2.81	2.81	2.81	2.81	4.60	4.00
3.61	3.61	3.22	3.22	2.81	2.81	4.60	4.20
1.5	1.5	1.8	1.8	2.4	2.4	1.0	1.0
9.5	9.5	13	13	17	17	11.5	8.0
35/26	35/26	40/31	40/31	42/33	42/33	35 / 21	39 / 21
48	48	52	52	54	54	45	45
220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
1090	1090	1850	1850	2420	2420	540	880
1053	1053	1800	1800	2490	2490	700	950
5.4	5.4	8.3	8.3	10.8	10.8	2.8	4.2
5.1	5.1	8.1	8.1	11.2	11.2	3.4	4.6
820*285*210	820*285*210	1065*298*225	1065*298*225	1065*298*225	1065*298*225	890*285*190	890*285*205
660*470*240	660*470*240	790*548*285	790*548*285	880*638*310	880*638*310	790*548*285	790*548*285
8.4	8.4	11	11	11.7	11.7	9.2	9.2
25.6	25.6	40	40	51	51	36	36
10.55	10.55	13.2	13.2	13.7	13.7	11.4	11.4
27.8	27.8	42.3	42.3	55	55	40	40
117/240/274	117/240/274	78/162/181	78/162/181	63/131/149	63/131/149	85/177/201	85/177/201
123/253/285	123/253/285	78/164/186	78/164/186	66/138/153	66/138/153	88/182/213	88/182/213
Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
Ø 12.7mm	Ø 12.7mm	Ø 12.7mm	Ø 12.7mm	Ø 15.88mm	Ø 15.88mm	Ø 9.52mm	Ø 9.52mm
15	15	15	15	20	20	15	15
7	7	8	8	8	8	8	8
-	-	-	-	-	-	•	•
-	-	-	-	-	-	-	-
80	80	80	80	80	80	80	80
-	-	-	-	-	-	-	-
-	-	-	-	-	-	•	•
-	-	-	-	-	-	•	•
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
4	4	4	4	4	4	4	4
Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
•	•	•	•	•	•	•	•
-	-	-	-	-	-	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
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-	-	-	-	-	-	•	•
-	-	-	-	-	-	-	-
-	-	-	-	-	-	•	•
•	•	•	•	•	•	•	•
-	-	-	-	-	-	•	•
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	BLDC	BLDC
•	•	•	•	•	•	•	•
-	-	-	-	-	-	-	-
15-43	15-43	15-43	15-43	15-43	15-43	-10-46	-10-46
-5-24	-5-24	-5-24	-5-24	-5-24	-5-24	-15-24	-15-24

* Features may vary by model, as a continuing policy of product improvement, the design and specifications are subject to change without notice.

Europe

			Crystal				Max	
Model Code			AQV09EWEW	AQV12EWEW	AQV18EWDN	AQV24EWDN	AQV09UGFNEUR	AQV10UWFNEUR
AC Type			INV. HP	INV. HP	INV. HP	INV. HP	INV. HP	INV. HP
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Performance								
Capacity	Cooling	Btu/hr.	8,530	11,942	17,061	23,202	8,530	10236
		(min-max)	3,310-11,260	3,378-13,649	5,459-20,473	7506-27296	2,559-10,918	2,559-12,966
		Kcal/hr.	2,150	3,009	4,299	5,848	2,150	2580
		(min-max)	835-2,840	851-3439	1376-5159	1890-6880	645-2,752	645-3,270
		kW	2.5	3.5	5	6.8	2.5	3
		(min-max)	0.97-3.3	0.97-4.0	1.6-6.0	2.2-8.0	0.75-3.2	0.75-3.8
	Heating	Btu/hr.	11,300	13,649	20,473	26,614	11,260	12966
		(min-max)	3,300-16,000	3,378-17,743	4,095-25,591	6483-34120	3,241-13,989	3,241-16,378
		Kcal/hr.	2,840	3,439	5,159	6,708	2,837	3267
		(min-max)	830-4,040	851-4471	1032-6449	1630-8600	817-3,530	817-4,130
		kW	3.3	4.0	6.0	7.8	3.3	3.8
		(min-max)	0.97-4.7	0.97-5.4	1.2-7.5	1.9-10.0	0.95-4.1	0.95-4.8
Energy Efficiency	Cooling	EER(Btu/W)	13.7	11.2	11.6	11.0	11.6	11.3
	Heating	EER(W/W)	4.02	3.30	3.40	3.21	3.40	3.30
		COP(W/W)	4.10	3.70	3.61	3.61	3.63	3.62
Moisture Removal		ℓ/hr.	1.4	1.4	2.5	3.1	1.0	1.10
Air Circulation (Max)		m³/min	12.0	9.0	13.0	17.1	8.0	9.9
Noise Level	Indoor High/Low	dB	36/21	38/21	38/30	43/30	35/21	37/21
	Outdoor High	dB	45	45	51	54	45	47
Electrical Data								
Power Source		V/Hz/Ø	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power Consumption	Cooling	W	620	1060	1470	2120	740	910
	Heating	W	800	1108	1660	2160	910	1050
Operating Current	Cooling	A	3	4.8	6.8	9.5	3.8	4.2
	Heating	A	3.8	4.9	7.7	10	4.4	4.8
Dimension & Loading Q'ty								
Net Dimension (W*H*D)	Indoor	mm	820*285*205	820*285*205	1065*298*230	1065*298*230	820*285*205	820*285*205
	Outdoor	mm	790*548*285	790*548*285	790*548*285	880*798*310	720*548*265	720*548*265
Net Weight	Indoor	kg	8.2	8.2	11.5	11.5	8.2	8.2
	Outdoor	kg	30.5	30.5	38	53.5	27.5	27.5
Shipping Weight	Indoor	kg	10.4	10.4	14.5	14.5	10.4	10.4
	Outdoor	kg	34.5	34.5	42	58	29.5	30.5
Loading Q'ty	W Pipe	20/40/40HC	85/177/201	85/177/201	78/162/181	52/108/124	93/193/225	93/193/225
	W/O Pipe	20/40/40HC	88/182/213	88/182/213	78/164/186	52/108/124	95/200/232	95/200/232
Technical Information								
SVC Valve	Liquid	OD	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
	Gas	OD	Ø 9.52mm	Ø 9.52mm	Ø 12.7mm	Ø 15.88mm	Ø 9.52mm	Ø 9.52mm
Piping Length	Max	m	15	15	30	30	15	15
Piping Height	Max	m	8	8	15	15	7	7
Features								
Air Purification	S-Plasma ion		●	●	●	●	-	-
	Auto Roof Shutter		-	-	-	-	-	-
	Full HD Filter		80	80	80	80	60	60
	DNA Filter		-	-	-	-	-	-
	Deodorizing Filter		●	●	●	●	-	-
	Catechin Filter		●	●	●	●	-	-
	Allergy Care		-	-	-	-	-	-
	Anti-bacteria Coating		●	●	●	●	●	●
	Auto Clean		●	●	●	●	●	●
Air Flow	Wide Twin Blade		-	-	-	-	-	-
	Optimal Single Blade		●	●	●	●	●	●
	Fan speed(Steps)		4	4	4	4	4	4
	Air Direction (Up/Down)		Auto	Auto	Auto	Auto	Auto	Auto
Operating Mode	Air Direction (Left/Right)		Manual	Manual	Manual	Manual	Manual	Manual
	Natural Breeze		●	●	●	●	●	●
	d'light Cool		●	●	●	●	-	-
	good'sleep		●	●	●	●	●	●
	Smart Saver		●	●	●	●	●	●
	Turbo		●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●
	Auto Mode		●	●	●	●	●	●
	Fan Mode		●	●	●	●	●	●
Convenience	Quiet Mode		●	●	●	●	●	●
	Smart wifi		-	-	-	-	-	-
	Filter Cleaning Indicator		●	●	●	●	-	-
	Temp. Display		●	●	●	●	-	-
	Remote Controller		●	●	●	●	●	●
	Display On/Off		●	●	●	●	-	-
	Beep On/Off		-	-	-	●	-	-
	Real-time Timer		-	-	-	-	-	-
	24-Hour Timer		●	●	●	●	●	●
Outdoor Unit	Auto Restart		●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●
	Compressor Type		BLDC	BLDC	Twin BLDC	Twin BLDC	BLDC	BLDC
	Anti-corrosion Fin		●	●	●	●	●	●
Low Ambient	Multi-channel Condensor		-	-	-	-	-	-
	Cooling	°C	-10-46	-10-46	-10-46	-10-46	-10-46	16-46
	Heating	°C	-15-24	-15-24	-15-24	-15-24	-10-24	-10-24

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Max						
AQV12UGFNEUR	AQV18UGDNEUR	AQV24UGDNEUR	AQ09UGFNEUR	AQ12UGFNEUR	AQ18UGFNEUR	AQ24UGFNEUR
INV. HP R410A	INV. HP R410A	INV. HP R410A	HP R410A	HP R410A	HP R410A	HP R410A
11,260	17,061	23,202	9,384	11,944	17,745	23,205
2,559-12,966	5,459-20,473	7506-27296	-	-	-	-
2,837	4,299	5,848	2,365	3,010	4,472	5,848
645-3,270	1376-5159	1890-6880	-	-	-	-
3.3	5	6.8	2.8	3.5	5.2	6.8
0.75-3.8	1.6-6.0	2.2-8.0	-	-	-	-
13,649	20,473	26613.6	9,896	12,968	19,793	23,888
3,241-16,378	4,095-25,591	6483-34120	-	-	-	-
3,439	5,159	6708	2,494	3,268	4,988	6,020
817-4,130	1032-6449	1630-8600	-	-	-	-
4.0	6.0	7.8	2.9	3.8	5.8	7
0.95-4.8	1.2-7.5	1.9-10.0	-	-	-	-
11.0	11.6	11.0	11.0	11.0	9.6	9.6
3.21	3.40	3.21	3.22	3.21	2.81	2.81
3.61	3.61	3.61	3.61	3.61	3.22	2.81
1.4	2.5	3.0	1.0	1.5	1.8	2.4
9.0	13.0	15.0	7.5	9.5	13	17
37/21	38/30	41/30	32/24	35/26	40/31	42/33
47	51	54	47	48	52	54
220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
1030	1470	2120	855	1090	1850	2420
1110	1660	2160	803	1053	1800	2490
4.8	6.8	9.5	4.1	5.4	8.3	10.8
5.2	7.7	10	3.7	5.1	8.1	11.2
820°285'205	1065°298'230	1065°298'230	820°285'190	820°285'190	1065°298'222	1065°298'222
720°548'265	790°545'285	880°798'310	660°470°240	660°470°240	790°548'285	880°638'310
8.2	11.5	11.5	7.8	8.4	11.1	12.2
27.5	38	53.5	23.2	25.6	39.3	51.7
10.4	14.5	14.5	9.8	10.44	14.2	14.6
30.5	42	58	25.5	27.8	42.1	55.4
93/193/225	78/162/181	52/108/124	117/240/274	117/240/274	78/162/181	63/131/149
95/200/232	78/164/186	52/108/124	123/253/285	123/253/285	78/164/186	66/138/153
Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm	Ø 6.35mm
Ø 9.52mm	Ø 12.7mm	Ø 15.88mm	Ø 9.52mm	Ø 12.7mm	Ø 12.7mm	Ø 15.88mm
15	30	30	15	15	15	20
7	15	15	7	7	8	8
-	-	-	-	-	-	-
-	-	-	-	-	-	-
60	60	60	60	60	60	60
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
•	•	•	•	•	•	•
•	•	•	•	•	•	•
-	-	-	-	-	-	-
•	•	•	•	•	•	•
4	4	4	4	4	4	4
Auto	Auto	Auto	Auto	Auto	Auto	Auto
Manual	Manual	Manual	Manual	Manual	Manual	Manual
-	•	•	•	•	•	•
-	-	-	-	-	-	-
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