

imagine



## imagine beyond the seen

Imagine something that is behind what you see in front of your eyes. There is a majestic secret of Samsung's invention of brand new air conditioners. It has more than just a feature of comfortable cooling; it can be part of your interior design and protect your health as well. Make your own exhibition of fresh and pleasant cooling air conditioners.

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\*Design and specifications are subject to change without notice.



preuzeto sa  **KlimaUredjaji.com**

# Re-think & Re-design

Applying innovative inventions to air conditioners can make a great result. This Samsung's new technology will help making people's lives more healthier and more comfortable. It will also save money through increased energy efficiency. Re-think to make your own design.



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# Re-design for your satisfaction

A design that suits your interior decor is a must for your entire satisfaction.

Samsung offers you a variety of air conditioners equipped with stylish designs and high performance. Samsung's air conditioners not only provide you with cooling comfort, but also clean the air of contaminants so that you breathe a healthy air. With Samsung, you can rely on comfortable and healthy living.



# Blue Light

Bright blue light softly flashes on your living space.



# Pearl

Improve your graceful life with luxurious pearl color.

# Mirror

Fill your interior space with chic and beautiful design.

# Line

Pure white panel combined with silver accent line.





# Luxurious & healthy air stays in your life

With Samsung's advanced technology, experience the most peaceful  
and comfortable air for your satisfaction.





The Micro Plasma Ion system offers you fresh, clean air you can enjoy.

MPI (Micro Plasma Ion) improves your Indoor Air Quality (IAQ) by eliminating the biological contaminants that threaten your health such as viruses, bacteria, ticks, molds, and allergy causing agents.

### **Creation of an Intensely Purified Zone**

This innovative MPI technology even eliminates toxins that filters couldn't trap, keeping you protected and healthy.

### **Protection against disease**

By eliminating biological contaminants, your family is protected from toxins that cause sickness, which means less headaches and runny noses.

### **Safe from allergy-causing agents**

No need to worry about allergy-causing agents. Make your home an allergy-free haven.

### **Controls active oxygen**

Although vital to the body, active oxygen in excess can cause disease, cancer, and accelerated aging. Keep oxygen in balance and protect yourself.

Fresh air keeps your family healthy

### **For people sensitive to toxins**

MPI is recommended for people who often feel sick from chemicals in the air. Reducing the level of toxins in the air, minimizes irritation.

### **For Children and Elderly people**

More sensitive to viruses, children and the elderly require better protection, which the Micro Plasma Ion offers.

### **For Allergy-Sufferers**

MPI effectively removes allergic agents, so you always have fresh air even with pets in the house.

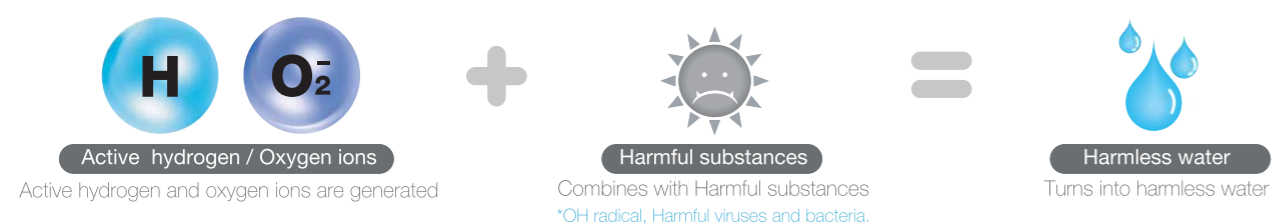
Do you know that harmful substances & viruses breed in the space you live in.

Micro Plasma Ion improves you Indoor Air Quality and eliminates all your worries.



- Active oxygen:** Speed up the skin aging process
- Dust in the air:** Causes asthma, headache and bronchitis
- Airborne bacteria and viruses:** Causes various diseases such as influenza, chicken pox, SARS.
- Bacteria:** Causing a variety of diseases and symptoms
- Molds:** Nurtures and spreads harmful viruses and ticks
- High-allergen agents:** Causes diverse allergies
- Ticks:** Causing skin irritations and respiratory problems

### How Micro Plasma Ion System technology Works



### Globally recognized air purification technology

In limited spaces like automobiles, airplanes and elevators, the MPI system exhibits its outstanding technology by providing the highest level of fresh clean air.



MPI technology applied to Renault Samsung automobiles

SM7 and SM5, high-end Renault Samsung automobiles, have adopted MPI technology to reduce toxins in its closed space. According to in car testing, 78% of mold and 58% of bacteria are eliminated with only 30 minutes of use within the car.



MPI technology selected for "Environment Research for Passenger Aircraft Cabins"

Sponsored by the U.S. government, ACER: Airliner Cabin Environment Research is dedicated to finding methods to reduce air cabin toxins. Samsung's MPI technology is the only foreign company chosen for project applications, which attests to the superior safe features of MPI.

### Micro Plasma Ion Acknowledged by Public Organizations

**Seal of Approval on Removal of Airborne Allergens**

\*Test institute: BAF (The British Allergy Foundation), chamber size (19.16m<sup>3</sup>). Relative humidity: 69%, temperature: 20°C

**Active Oxygen (OH Radical) Elimination**

\* Reported at the 7th Colloquium ASA Sept. 2005 France.

**Atomic Hydrogen Generation**

\* Reported at the 2nd International Workshop on Cold Atmospheric Pressure Plasmas, August 30, Bruges, Belgium.

**CAPPSA 2005 Proceedings**

Substance	Type	Effectiveness	Notarization Agency
Virus	Influenza Virus A Type (Flu)	99.6% removal	Environmental science center (Japan)
	Corona virus (SARS virus)	99.6% removal	Yonsei University (Korea)
Bacterium / Mold	Yellow Micrococcus, Coliform Black Mold, Green Mold	99% removal	Kitasato Medical Center Hospital (Japan)
Allergy	Dust tick / Cat / Dog	99.9% removal	Korean consuming scientific research center
MRSA	Methicillin Resistant Staphylococcus aureus	Certified Effective	BAF Mark (UK)
Active Hydrogen	Hydrogen Atom Confirmed	99.9999% removal	Kitasato Environmental Science Center (Japan)
Animal poisonus	Seoul National Univ. Veterinary Department	Generation of Hydrogen Confirmed	Hiroshima university (Japan)
		Nontoxic Confirmed	Tested by GLP Global Standards (Japan)

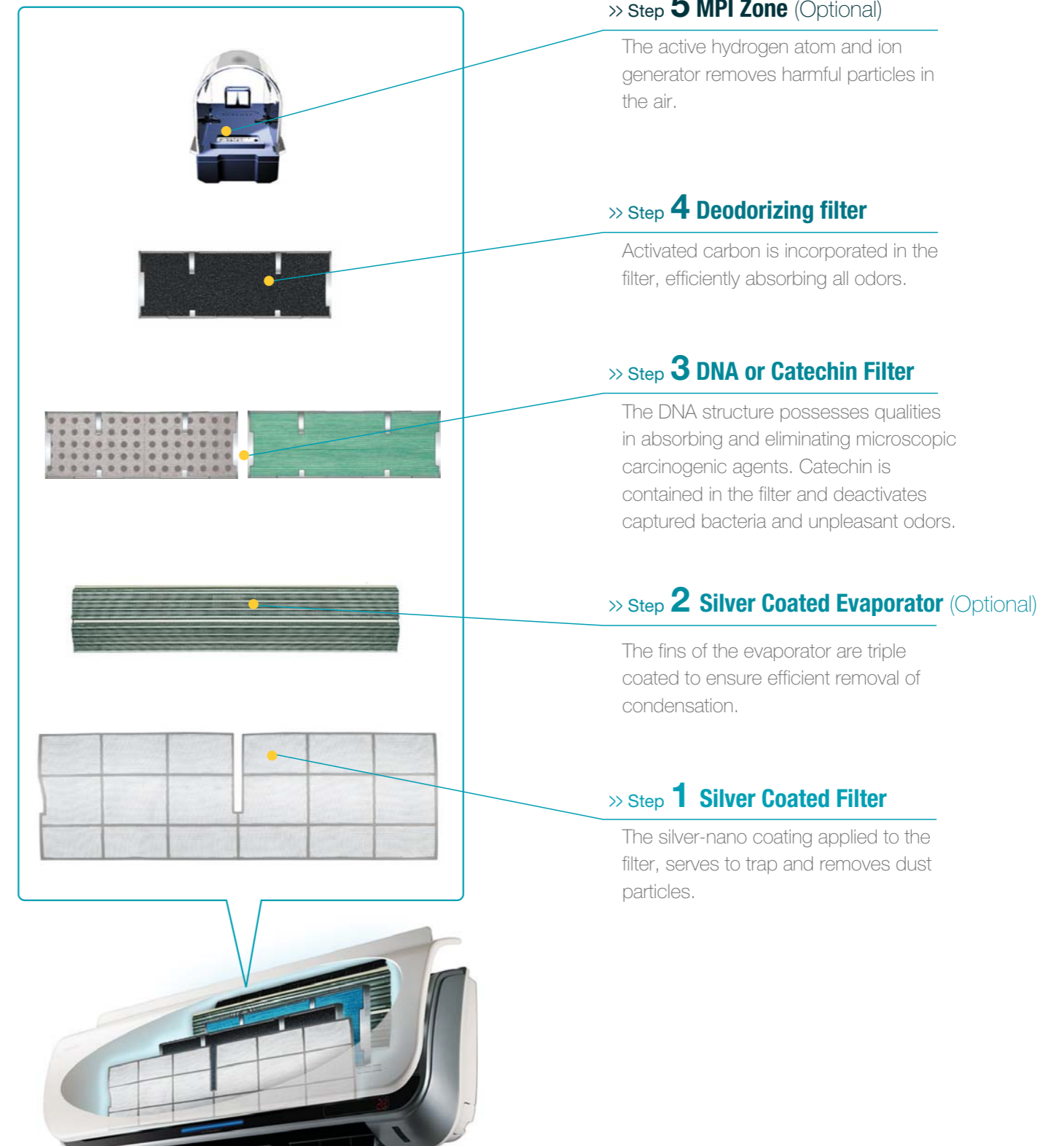
Authentication authorities in UK, USA, Japan and South Korea have acknowledged the excellent air filtering and cleaning function of Micro Plasma Ion technology, which kills 99% of airborne pathogens. BAF: the British Allergy Foundation | RTI International triangle institute

## Health Care System



## 5-Step Air Purifying System

The Multi-Step Air Purifying System removes mostly harmful elements by using various filters and keeps it ultra-clean.







The Samsung air conditioner is all what you need to keep your air consistently clean and fresh.

**Stage\_1 Auto Roof Shutter**

The Auto Roof Shutter keeps dirt from getting inside.

**Stage\_2 MPI (Micro Plasam Ion)**

Biological contaminants and various pathogens such as bacteria, viruses, and molds are removed.

Removes Biological contaminants.

Micro Plasma Ion neutralizes Viruses, Bacteria and Allergens

**STEP\_1**



The active hydrogen and oxygen ion cohere to the surface (OH) of the viruses, bacteria and allergens drifting in the air.

**STEP\_2**



The atoms and ions bond with hydrogen on the surface of the harmful particles and destroy the protein of the membrane.

**STEP\_3**

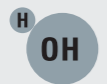


The harmful particle decomposes and the atom and ion, which bonded with the hydrogen of the particles, change into harmless water.

Controls active oxygen.

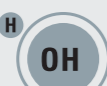
Micro Plasma Ion decomposes Active Oxygen(OH Radical)

**STEP\_1**



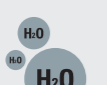
The active hydrogen released from Micro Plasma Ion adheres to active oxygen in the air.

**STEP\_2**



The active hydrogen and active oxygen react.

**STEP\_3**



And changes into harmless water.

**Generator**

Hydrogen ions generated in the MPI device bond with electrons(e) which forms active hydrogen while oxygen in the air bond with electrons to form oxygen ions. Then the active hydrogen and oxygen ions are released into the room



**Stage\_3 DNA filter & 5 step filter**

Exogenous endocrine-disrupting chemicals, hazardous materials, and other harmful chemicals are removed.



Good'sleep II

Deep sleep for a refreshed wake up



Optimal temperatures for a good night's sleep!

Samsung's Good'sleep II ensures your environment stays at the most comfortable temperature with automatic moisture adjustment to guarantee a good night's sleep.

Good'sleep II is recommended for :

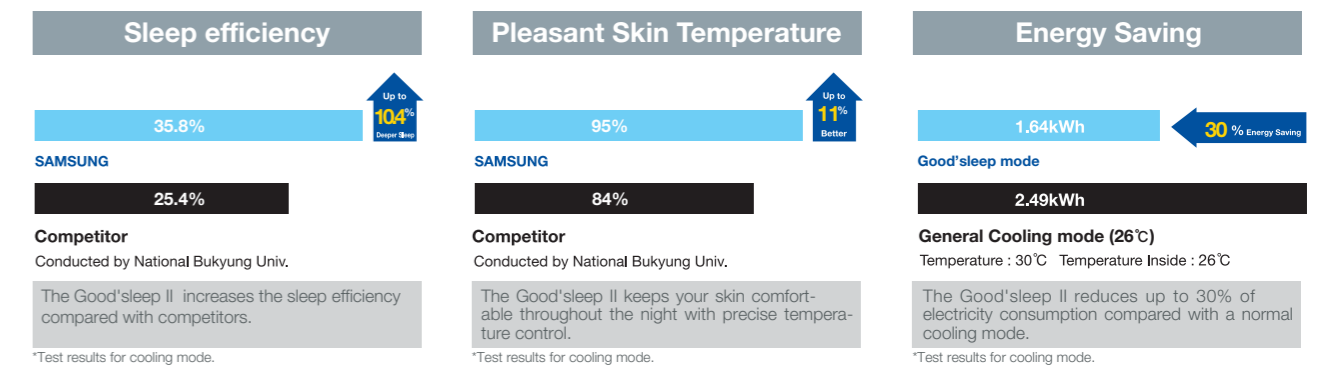


Those with sensitive skin to temperature.

Those who suffer from insomnia.

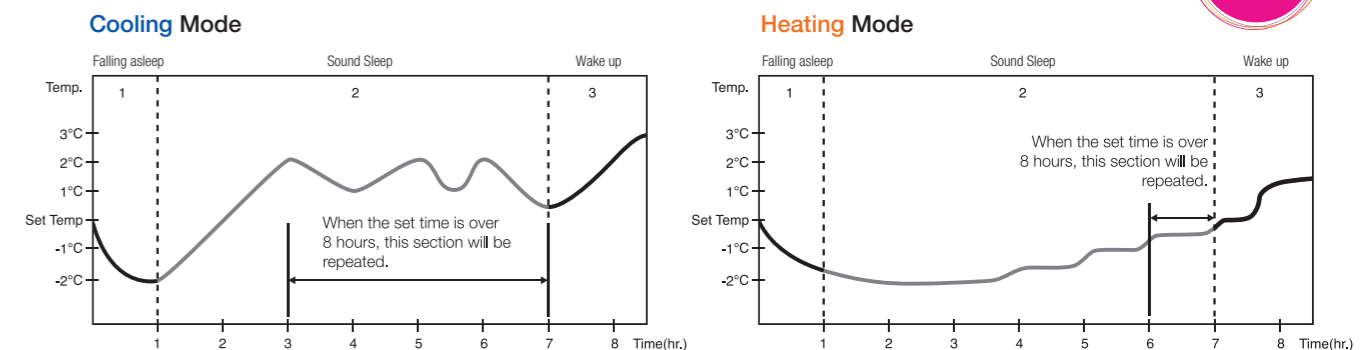
Those who worry about energy consumption.

Enjoy a pleasant night's sleep



Best Temperature for deep sleep

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



1. Falling asleep stage : Eases you into sleep by dropping the temperature.

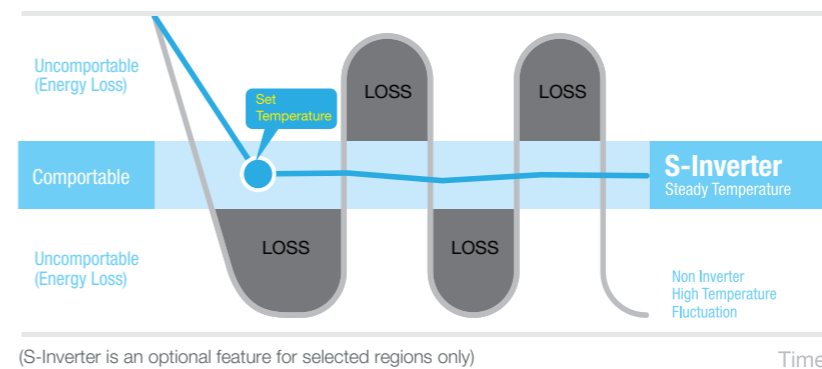




## Silent operation, energy Saving & Stable run with the S-inverter

Samsung's S-Inverter technology lowered energy consumption by up to 50% and its powerful control lets you reach the desired temperature quickly and maintains precise temperatures.

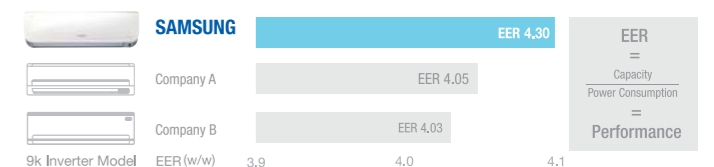
### Stable! Comfortable Temperature



The S-Inverter Air Conditioner works at maximum capacity at start up. As soon as the temperature reaches the desired set temperature, it finely adjusts to cope with any changes. This means less temperature fluctuation and assures you greater comfort that can be achieved in minutes.

### Saving! High efficiency

The S-Inverter technology gives you powerful, speedy cooling and heating at minimum electricity consumption, so you can reduce energy waste and save money.



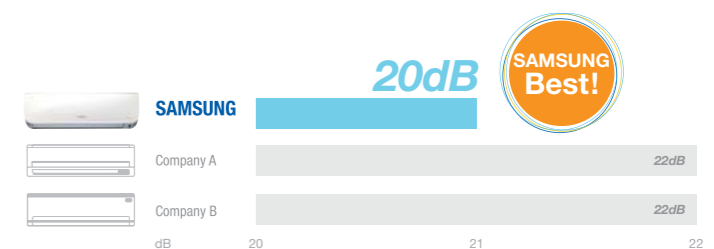
### Up to 50% Energy Saving

After reaching the set temperature, the S-Inverter Air Conditioner changes its operation mode to economic. By avoiding inefficient and frequent switching on and off of the compressor, the S-Inverter saves up to 50% in energy consumption compared with a non-inverter air conditioner.



### Silent! Silent operation

Enjoy the sweet silent operation of your air conditioner, the air conditioner's compressor works at a lower speed to maintain the temperature resulting in a quieter motor and fan noise assuring greater comfort while in use.



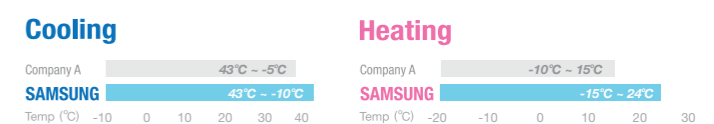
### Fast Cooling and Heating

When you change the temperature setting, the air conditioner will use the compressor's maximum capacity to quickly reach the desired temperature, resulting in 15% faster cooling and 50% faster heating.



### Wide Temperature Performance

No need to worry about using an external unit in severe temperatures with a Samsung air conditioner. With a wider temperature allowance, the unit can cool in the burning heat of 43°C or heat in the freezing coldness of -15°C.





# Experience the powerful cooling of UTR Plus™

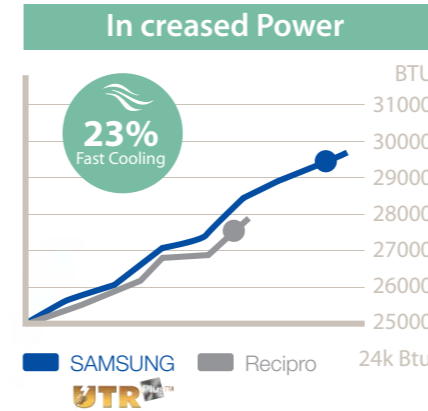


## Samsung's Powerful UTR Plus™ for Rapid Cooling

Samsung developed the UTR (Ultra Tropical Rotary) Plus™ compressor featuring incredible power that can quickly cool even under severe climate. The Plus™ has the reliability to maintain the superb performance even under severe temperatures of up to about 60°C/140°F for a long time.

### Performance Comparison

Even under extreme temperatures, customers can rely on their air conditioner's performance to provide quick cooling.



At least 20% of cooling increased at 18K BTU.

### High-Efficiency Compressor

EER : 5-10% higher than Reciprocating Compressors  
The UTR Plus compressor has increased energy capacity and decreased power consumption.

EER	Samsung air conditioner - UTR Plus™
5~10% Higher	Energy ↑ Power Consumption ↓

### Light Weight - Easy Maintenance

The UTR Plus™ compressor, comprised of innovative and durable yet light weight materials, allows for stress-free maintenance and easy installation.

Weight	Samsung air conditioner - UTR Plus™
30% Lighter	Easy Maintenance

### Longer Life

The lifetime of the UTR Plus™ compressor has been extended so you can enjoy the performance of your air conditioner much longer.

### Performance Reliability Certificate

Certificate received from the Center for Environmental Energy Engineering (CEEE), University of Maryland, USA. Test results for performance and reliability concluded that Samsung's UTR Plus™ compressor showed bearing performance and resultant expected field life 80% to 100% better than that of commercially available reciprocating compressors.



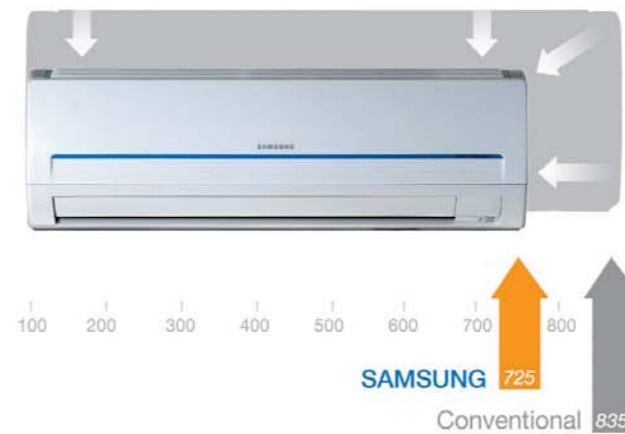
## Smaller than ever, stronger than ever

### Slim Solution

The innovative invention of Samsung's new technology introduces extremely smaller size of air conditioners compared with the conventional ones. The slim solution of Samsung air conditioners gives you the best solution for space flexibility.

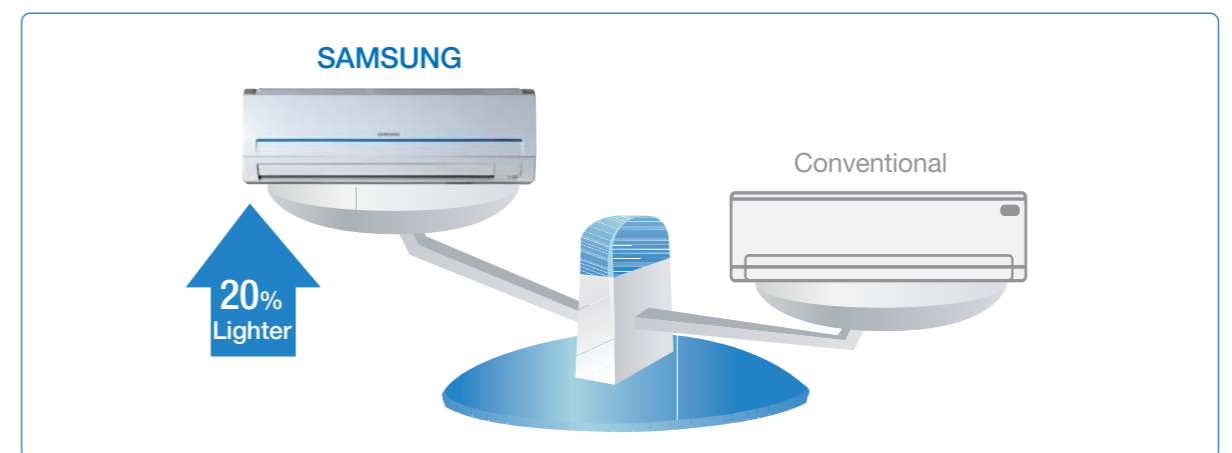
#### Compact Size

Samsung's advanced technology helped to develop new air conditioners with compact size while keeping the same performance. The overall size was reduced by at least 18%, so you will be amazed at the usable space application and more installation convenience.



#### Light Weight

The application of Samsung's slim solution provides air conditioners not only with compact size but also with light weight. The compact size air conditioners are lighter and easy to install compared to the conventional models.





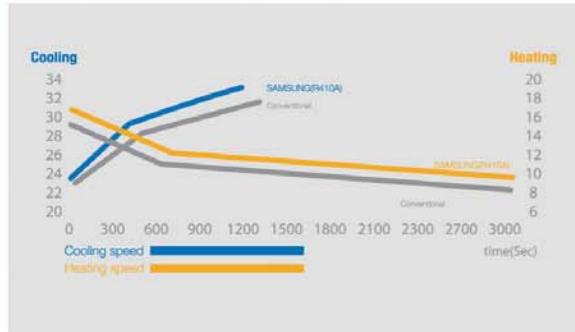
### Easy view circular LED display

Digital I, a large circular LED display, lets you keep an eye in the comfort of your room. At a glance, you can see the state of your room, the convenient digital icons assist you in operating the air conditioner effortlessly.



### Waterfall Heating Air Flow

The new Samsung air conditioners feature a wide-angle blade system. In conventional models, the indoor unit's blade could only open up to 70 degrees, which made it difficult to direct heated airflow to the lower spaces of the room. The wide-angle blade system can open the blades to an angle of 90 degrees. You can control airflow direction vertically and horizontally, providing even distribution of air to any place of the room.



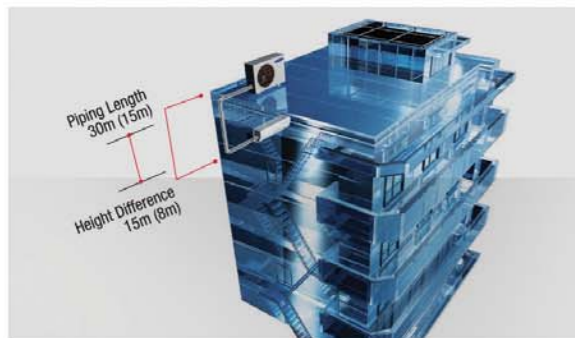
### Rapid Cooling and Heating

Everyone wants to have the room temperature in the ideal state when they come home. Especially in severe hot or cold weather. With the exceptional technical characteristics and superior quality features, the new Samsung air conditioners maximize the speed of cooling and heating to reach the set temperature in a short time.



### Auto Changeover

The Auto Changeover automatically selects the operating mode (Cooling or Heating) according to the temperature setting. Thus, when a temperature is selected in the auto mode, the air conditioner heats and cools as required maintaining the set temperature.



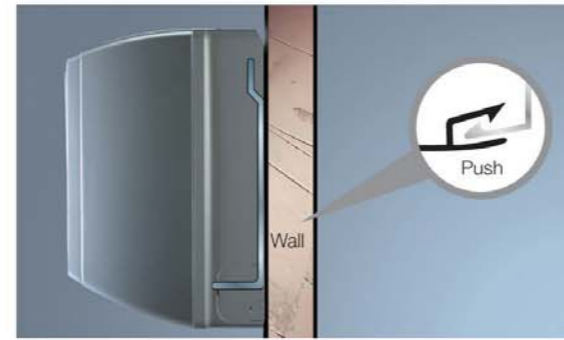
### Outdoor Installation Pipe

The connection pipe is extendable up to 30 meters in length and up to 15 meters in height (18,000-24,000Btu/h)[or 15 meters in length and 8 meters in height (9,000-12,000Btu/h)]. So there is great flexibility in the choice of location for the outdoor unit.



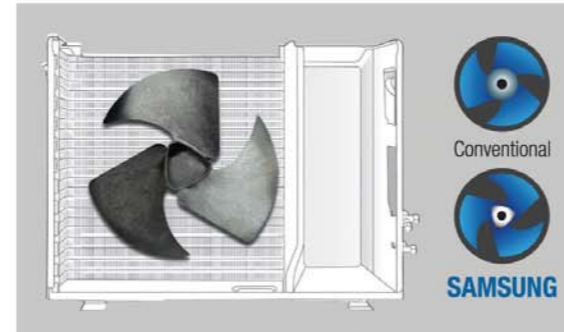
### Easy Handle for Convenience during Transporting, Unloading, etc

The lightweight and compact outdoor unit is equipped with a handle for convenience during transporting, unloading, etc. Because the outdoor unit can be carried with ease, installation is quick and simple.



### One-touch Hanger Plate

The indoor unit and the installation plate can be removed easily just by pressing the lower part of the indoor unit as shown in the figure.



### Energy efficient and Quiet Fan

In the outdoor unit, the new propeller fan has better performance characteristics due to its triangular hub shape, resulting in enhanced energy efficiency and fan capacity, greater hot temperature resistance, and quieter operation.



### Improved Low Temperature Operation

Improved heating capacity ultimately results in improved performance in low temperatures. Moreover, the new base structure of the outdoor unit includes three drainage holes and extended drainage channels, providing better protection for the cabinet against excess water, freezing, and rust. An automatic defrosting algorithm developed specifically for cold countries allows smooth heating operation with outdoor temperatures below 0°C.



### Water Leakage Double Protection

Samsung, for the first time, has adopted a double water leakage protection system. The tray drain at the bottom of the unit has been deepened by 5 mm. The drainage channel on the front panel prevents walls and carpets from being saturated by the water drops.

# Design your life with comfortable air

With the advanced technology applied to Samsung air conditioners, experience the most peaceful and comfortable air for your relaxation.





## MB

Using the innovative auto roof shutter system, this unique air conditioner automatically seals off to prevent dirt infiltration when not in operation.



## Auto Roof Shutter



**Closed** Samsung's innovative Auto Roof Shutter seals off the air conditioner so that it is impenetrable to dust, which keeps the vents and fan clean so you only get clean air when in use. This sealed design also makes the air conditioner aesthetically pleasing when closed since everything is hidden out of sight. Closed, the Auto Roof Shutter ensures no dust enters and everything stays hidden until use.



**Open** Finally, design that's truly functional. The Auto Roof Shutter opens to let air into the unit, purifies the air and dispenses cool air from the vents below so the room cools faster and more efficiently. Open, the Auto Roof Shutter ensures you're breathing clean cool air.

## Blue Light

**MPI Lamp** The blue MPI light signals the purification of the air, so you can breathe easy knowing that the air is clean. Purification begins automatically when the air conditioner is turned on, so rest assured that you're breathing healthy.

AUTO ROOF SHUTTER



# Auto Roof Shutter

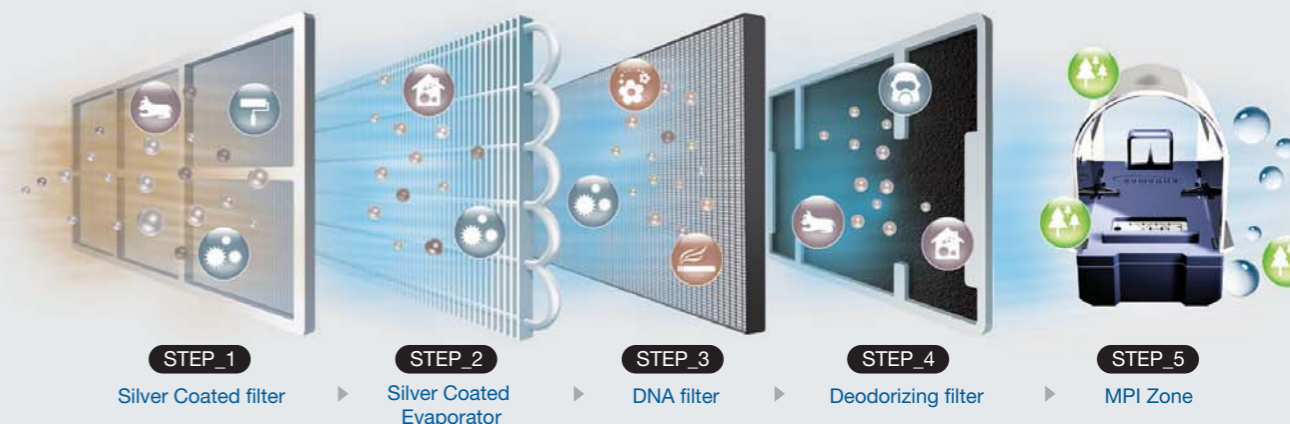


Exposed

Protected



## 5 step-filter completely filters out harmful substances



**[ STEP\_1 ] Silver Coated filter**  
Silver Coated Filter, the respiration of the viruses is stifled, inhibiting their cell growth, causing them to die. The viruses are removed speedily in just 2 hours.

**[ STEP\_2 ] Silver Coated Evaporator**  
The fins of the evaporator are triple coated with environmentally friendly materials (2 layers of chrome free silica, 1 layer of silver coating) to ensure efficient removal of condensation and to guarantee the production of clean and fresh air.

**[ STEP\_3 ] DNA filter**  
DNA structure possesses an outstanding qualities in absorbing and eliminating microscopic carcinogenic agents.

**[ STEP\_4 ] Deodorizing filter**  
Activated carbon is incorporated in the filter, efficiently absorbing cigarette smoke, pet odors and other unpleasant smells.

**Cross Fan**  
Molded with an antibacterial formula to suppress proliferation of molds and bacteria, helps prevent the cause of unpleasant odors.

**[ STEP\_5 ] MPI Zone**  
Removes harmful particles in the air, such as the influenza virus, SARS virus, bird-flu virus, the MRSA, bacteria, fungi and allergen particles.



### Exposed.



#### Product without Auto Roof Shutter

Dirt trapped inside causes malfunctions, nurtures viruses, and contaminates the air.

#### What happens if dust gets into the air conditioner?

1. It could make strange noises when in use.
2. It becomes a home for germs, nurturing allergies and viruses.
3. It becomes more prone to breakdowns.

### Protected.



#### MB with Auto Roof Shutter

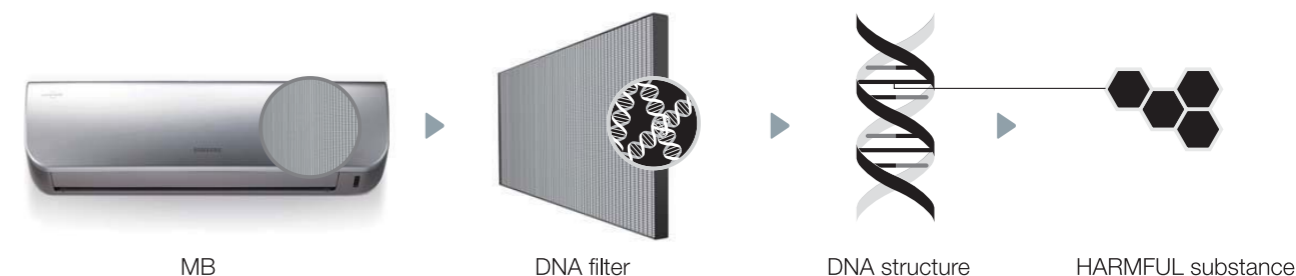
When turned off, this product seals itself off to prevent dirt infiltration.

#### What's the Auto Roof Shutter? - Protected from dirt

Never before seen, Samsung introduces the Auto Roof Shutter, designed to prevent the influx of dust into the air conditioner when not in use.

### Why is the DNA filter more effective?

The DNA structure possesses an ideal form which selectively screens out the carcinogenic agents. Also, due to its selective elimination method, unlike the general filter, its lasts for a long time.



1. Unique DNA-structure filter out-performs all other filters
2. Lasts a lifetime as it specifically targets cancer-causing agents
3. Only Samsung offers this technological benefit



White



Silver



## Features



### Auto Roof Shutter

This unique air conditioner automatically seals off to prevent dirt infiltration when not in operation.



### DNA Filter

It is a new technology that screens selectively for only toxic agents. This enables a smarter and effective air management compared to other filters.



### MPI (Micro Plasma Ion)

The world's first technology that generates active hydrogen atoms together with oxygen ions to improve your Indoor Air Quality. It protects you from harmful particles and viruses existing in the air.



### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshed wake up.

### Silver Coated Evaporator

The fins of the evaporator are triple coated with environmentally friendly materials (2 years of chrome-free silica, 1 layer of Silver coating) to ensure efficient removal of condensation and to guarantee the production of clean and fresh air.

### Deodorizing filter

Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odors and other unpleasant odors.

### S-Inverter (Optional)

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.

\*S-Inverter is an optional feature for selected regions only.

## Design

Blue Light



Pearl Color



Auto Roof Shutter



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	AQV09A*A	AQV12A*A	AQV18AWA	AQV24AWA
	220~240/50/1	R410a	-	-	-	-
Heat Pump	220~240/50/1	R22	AQ09AWA*	AQ12AWA*	AQ18WA*	AQ24AWA* AQ24DWA*
	220/60/1	R22	-	-	AQ18DWA*	-
Cooling Only	220~240/50/1	R22	-	-	AS18DWA*	AS24DWA*
	220/60/1	R22	-	AS12AWA	AS18AWA AS18DWA	AS24AWA AS24DWA

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	-	24K Btu
Inverter	-	-	-	-	9K Btu	18K Btu
	-	-	-	-	12K Btu	24K Btu





## Vivace (Shadow Mirror)

The flat front panel is made of smoked half mirror adding chic and graceful image to air conditioner.

The design and functions definitely indicate the air conditioner of the near future.



Shadow Mirror



## Features



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### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshed wake up.

### Catechin filter

Catechin, extracted from green tea, is contained in the filter and deactivates captured bacteria and unpleasant odors.

### Silver Coated Evaporator

The fins of the evaporator are triple coated with environmentally friendly materials (2 years of chrome-free silica, 1 layer of Silver coating) to ensure efficient removal of condensation and to guarantee the production of clean and fresh air.

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Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odors and other unpleasant odors.

### S-Inverter (Optional)

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.

\*S-Inverter is an optional feature for selected regions only.

## Design

Shadow Mirror  
Reddish Black



Hidden Display



Trim-less Design



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	AQV09VBC	AQV12VBC	AQV18VBC	AQV24VBC
	220/60/1	R410a	AQV09VBCKCV	AQV12VBCKCV	AQV18VBCKCV	AQV24VBCKCV
Heat Pump	220~240/50/1	R22	AQ09VBLSER	AQ12VBLSER	AQ18VBLSER	AQ24VBLSER
	220/60/1	R22	-	-	-	-
Cooling Only	220~240/50/1	R22	AS09VBL	AS12VB*	AS18V*B*	AS24VBL
	220/60/1	R22	-	AS12VBBC	AS18VBBC	AS24VBBC

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	-	24K Btu
Inverter	-	-	-	-	9K Btu	18K Btu
	-	-	-	-	12K Btu	24K Btu





## Vivace (Digital i)

The Digital i attached at the center of the white flat panel acts as a design accent and gives cool & fresh impression.





Digital i



## Features



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### Deodorizing filter

Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odors and other unpleasant odors.



### UTR Plus (Optional)

Super Strong compressor for extremely hot regions.

## Design

Automatic Panel

Digital i



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	-	-	-	-
	220~240/50/1	R410a	-	-	-	-
Heat Pump	220~240/50/1	R22	AQ09VWC*	AQ12VWC*	AQ18VW*	AQ24VWC*
	220/60/1	R22	-	-	AQ18VWC	AQ24VWC
Cooling Only	220~240/50/1	R22	AS09VWC*	AS12VWC*	AS18VW*	AS24VWC*
	220/60/1	R22	-	-	AS18VWC	AS24VWC

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	-	24K Btu
Inverter	-	-	-	-	9K Btu	18K Btu
	-	-	-	-	12K Btu	24K Btu





## Moderato

The beautifully curved design featuring flat front panel and two tone colors give intelligent image.



White



Silver



## Features



### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshed wake up.

### Catechin filter

Catechin, extracted from green tea, is contained in the filter and deactivates captured bacteria and unpleasant odors.

### Silver Coated Evaporator

The fins of the evaporator are triple coated with environmentally friendly materials (2 years of chrome-free silica, 1 layer of Silver coating) to ensure efficient removal of condensation and to guarantee the production of clean and fresh air.

### Deodorizing filter

Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odors and other unpleasant odors.



### UTR Plus (Optional)

Super Strong compressor for extremely hot regions.

## Design

Round Form



Hidden Display



Two-tone Color



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	-	-	-	-
	220~240/50/1	R410a	AQ09M*	AQ12M*	AQ18M*	AQ24M*
Heat Pump	220~240/50/1	R22	AQ09M*	AQ12M*	AQ18M*	AQ24M*
	220/60/1	R22	-	AQ12MWBD	-	-
Cooling Only	220~240/50/1	R22	AS09M*	AS12M*	AS18M*	AS24M*
	220/60/1	R22	-	AS12MWBD	-	-

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	-	-	9K Btu	-	18K Btu
	-	-	9K Btu	-	24K Btu







## Neo Forte

The design incorporates clean and fashionable front panel with unique silver accent line adding a strong impression and a stylish touch to the whole design.





White



## Features



### MPI (Micro Plasma Ion)

The world's first technology that generates active hydrogen atoms together with oxygen ions to improve your Indoor Air Quality. It protects you from harmful particles and viruses existing in the air.



### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshed wake up.

### Catechin filter

Catechin, extracted from green tea, is contained in the filter and deactivates captured bacteria and unpleasant odors.

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### Deodorizing filter

Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odors and other unpleasant odors.

### S-Inverter (Optional)

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.

\*S-Inverter is an optional feature for selected regions only.

## Design

Clean-Cut Front Panel



Silver Accent Line



Bottom Opening Front Panel



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	AQV09NSA	AQV12NSA	AQV18NSA	AQV24NSA
	220~240/50/1	R410a	AQ09NS*	AQ12NS*	AQ18NSA	AQ24NSA
Heat Pump	220~240/50/1	R22	AQ09NLSER	AQ12NASER	AQ18NESER	AQ24NASER
	220/60/1	R22	-	AQ12NBA*	AQ18NBE*	AQ24NBA*
Cooling Only	220~240/50/1	R22	AS09N*	AS12N*	AS18N*	AS24N*
	220/60/1	R22	AS09NBA*	AS12NBA*	AS18NBE*	AS24NBA*

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	-	-	9K Btu	-	18K Btu
	-	-	9K Btu	-	24K Btu





## Forte

The design incorporates clean-cut front panel with unique color line gives strong impression. Designed for convenience as well as aesthetic.





Blue



Gray



## Features

### Multi Air Purification System

The Samsung Multi-Step Air Purification System removes almost all harmful elements to human being by using Silver Coated Pre-Filter, Silver Coated Evaporator and other various filters.



### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshed wake up.

### Turbo Cooling and Heating

With the exceptional technology and superior quality features, the new Samsung air conditioners maximize the speed of cooling and heating to reach the set temperature in a short time.



### Silm Solution

The innovative invention of Samsung's new technology introduces extremely smaller size of air conditioners compared with the conventional ones. The volume has been decreased by 18% and the loading quantity has been increased by 9% overall. The slim solution of Samsung air conditioners gives you the best solution for space flexibility.

### S-Inverter (Optional)

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.

\*S-Inverter is an optional feature for selected regions only.



### UTR Plus (Optional)

Super Strong compressor for extremely hot regions.

## Design

Flush Front Panel    Accent Line    Bottom Opening Front Panel



## Model Number

	Power Source (V/Hz/Ø)	Refrigerant	~7K Btu	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	220~240/50/1	R410a	-	AQV09FC	AQV12FC	AQV18FC	AQV24FC
	220~240/50/1	R410a	-	AQ09*	AQ12F*	AQ18FD	AQ24FC
Heat Pump	220~240/50/1	R22	AQ07XL	AQ09*	AQ12F*	AQ18F*	AQ24F*
	220/60/1	R22	-	-	AQ12FC	AQ18F*	AQ24FC
Cooling Only	220~240/50/1	R22	AS07XL AS05XL	AS09*	AS12F*	AS18F*	AS24F*
	220/60/1	R22	-	AS09SA	AS12FC	AS18F*	AS24FC

## Remote Controller & Outdoor Unit

Remote Controller	Non Inverter	9K Btu	12K Btu	18K Btu	24K Btu
Inverter	-	-	9K Btu	-	18K Btu
	-	-	9K Btu	-	24K Btu





MB

			S-Inverter R410a	S-Inverter R410a	S-Inverter R410a	S-Inverter R410a
Refrigerant Type			220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
Power Source	V/Hz/ φ					
Model Code			AQV09AWA	AQV12AWA	AQV09ASA	AQV12ASA
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	8,530	11,942	8,530	11,942
		Cal/hr.	2,150	3,009	2,150	3,009
		kW	2.5	3.5	2.5	3.5
	Heating	Btu/hr.	11,942	13,649	11,942	13,649
		Cal/hr.	3,009	3,439	3,009	3,439
		kW	3.4	4.0	3.4	4.0
Energy Efficiency	Cooling	EER (Btu/W)	14.7	12.3	14.7	12.3
		EER (W/W)	4.30	3.60	4.30	3.60
	Heating	COP (W/W)	4.30	3.64	4.30	3.64
Moisture Removal	ℓ /hr.		1.0	1.4	1.0	1.4
Air Circulation (Max)	m³/min		8.0	9.0	8.0	9.0
Noise Level	Indoor High/Low	dB	31 / 20	35 / 21	31/20	35 / 21
	Outdoor High	dB	45	45	45	45
<b>Electrical Data</b>						
Power Consumption	Cooling	W	581	972	580	970
	Heating	W	791	1100	790	1100
Operating Current	Cooling	A	3.0	4.7	3.0	4.7
	Heating	A	4.0	5.2	4.5	5.2
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	900X304X185	900X304X185	900X304X185	900X304X185
	Outdoor	mm	790X548X285	790X548X285	790X548X285	790X548X285
Net Weight	Indoor	kg	10.2	10.2	10.2	10.2
	Outdoor	kg	32.6	32.6	32.6	32.6
Shipping Weight	Indoor	kg	12.6	12.6	12.6	12.6
	Outdoor	kg	35.4	35.4	35.4	35.4
Loading Q'ty	W Pipe	20/40ft/Jumbo	84/180/205	84/180/205	84/180/205	84/180/205
	W/O Pipe	20/40ft/Jumbo	88/187/223	88/187/223	88/187/223	88/187/223
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ9.52mmx5m	Φ9.52mmx5m	Φ9.52mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	15
Piping Height	Max	m	8	8	8	8
Refrigerant		G				
Add Refrigerant		g/m				
<b>Features</b>						
MPI			•	•	•	•
Good'sleep II			•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•
	Silver Coated Evaporator		•	•	•	•
	DNA Filter		•	•	•	•
Pure & Clean Air	Pure Filter (HAF Filter)		•	•	•	•
	Catechin Filter		•	•	•	•
	Deodorizing Filter		•	•	•	•
Operating Mode	Digital I Plus		•	•	•	•
	Dehumidification		•	•	•	•
	Turbo Mode		•	•	•	•
	Timer		•	•	•	•
	Energy Saving Mode		•	•	•	•
	Auto Restart		•	•	•	•
	Auto Changeover		•	•	•	•
	Auto Wind		•	•	•	•
Convenience	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•	•
	Remote Controller		•	•	•	•
	Auto Clean (self cleaning)		•	•	•	•
	Etc.	Compressor Type		ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C	-10~43	-10~43	-10~43	-10~43
	Heating	°C	-15~24	-15~24	-15~24	-15~24

			S-Inverter R410a	S-Inverter R410a	HP R22	HP R22	HP R22	HP R22	HP R22
Refrigerant Type			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
Power Source	V/Hz/ φ								
Model Code			AQV18AWA	AQV24AWA	AQ09AWASER	AQ12AWASER	AQ18AWASER	AQ24AWASER	AQ09AWA*
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	17,061	23,203	9,000	12,000	18,000	24,000	9,000
		Cal/hr.	4,299	5,847	2,322	3,009	4,385	5,847	2,322
		kW	5.0	6.8	2.7	3.5	5.1	6.8	2.7
	Heating	Btu/hr.	20,473	27,297	10,000	13,000	20,000	24,000	10,000
		Cal/hr.	5,159	6,879	2,494	3,267	4,987	6,019	2,494
		kW	6.0	8.0	2.9	3.8	5.8	7.0	2.9
Energy Efficiency	Cooling	EER (Btu/W)	11.0	10.3	9.80	9.55	9.16	8.92	9.80
		EER (W/W)	3.23	3.01	2.87	2.80	2.68	2.62	2.87
	Heating	COP (W/W)	3.41	2.84	3.30	3.22	3.10	2.69	3.30
Moisture Removal	ℓ /hr.		2.5	3.0	1.0	1.3	1.9	2.6	1.0
Air Circulation (Max)	m³/min		13.0	15.0	7	9	15	17	8
Noise Level	Indoor High/Low	dB	40 / 30	41 / 30	32 / 24	35 / 26	39 / 32	42 / 35	32 / 24
	Outdoor High	dB	53	55	45	45	52	55	45
<b>Electrical Data</b>									
Power Consumption	Cooling	W	1550	2260	940	1250	1900	2600	940
	Heating	W	1760	2810	880	1180	1870	2600	880
Operating Current	Cooling	A	7.0	10.6	4.3	5.6	9	12.5	4.3
	Heating	A	8.0	13.0	3.9	5.3	9	12.5	3.9
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	1100x307x225	1100x307x225	900x304x185	900x304x185	1100x307x225	1100x307x225	900x304x185
	Outdoor	mm	880X638X310	880X638X310	660X470X240	720X548X265	790X548X285	880X638X310	660X470X240
Net Weight	Indoor	kg	12.7	12.7	10.2	10.2	12.7	12.7	10.2
	Outdoor	kg	48.2	52	26	33.8	39	56	26
Shipping Weight	Indoor	kg	15.8	15.8	11.5	11.5	16	16	11.5
	Outdoor	kg	51	55.6	27.5	35	43	53	27.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	58/121/138	58/121/138	116/234/266	96/195/216	66/144/166	58/121/138	116/234/266
	W/O Pipe	20/40ft/Jumbo	54/115/129	54/115/129	120/246/291	102/214/230	69/150/168	54/115/129	120/246/291
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5.0m	Φ6.35mmx5.0m	Φ6.35mmx5.0m	Φ6.35mmx5.0m	Φ6.35mmx5.0m
	Gas	ODxL	Φ12.7mmx5m	Φ15.88mmx5m	Φ9.52mmx5.0m	Φ12.7mmx5.0m	Φ12.7mmx5.0m	Φ15.88mmx5.0m	Φ9.52mmx5.0m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	30	30	15	15	15	20	15
Piping Height	Max	m	15	15	7	7	8	8	7
Refrigerant		G							
Add Refrigerant		g/m							
<b>Features</b>									
MPI			•	•	•	•	•	•	•
Good'sleep II			•	•	•	•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•	•	•	•
	Silver Coated Evaporator		•	•	•	•	•	•	•
	DNA Filter		•	•	•	•	•	•	•
Pure & Clean Air	Pure Filter (HAF Filter)		•	•	•	•	•	•	•
	Catechin Filter		•	•	•	•	•	•	•
	Deodorizing Filter		•	•	•	•	•	•	•
Operating Mode	Digital I Plus		•	•	•	•	•	•	•
	Dehumidification		•	•	•	•	•	•	•
	Turbo Mode		•	•	•	•	•	•	•
	Timer		•	•	•	•	•	•	•
	Energy Saving Mode		•	•	•	•	•	•	•
	Auto Restart		•	•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•	•
	Auto Wind		•	•	•	•	•	•	•
Convenience	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•	•	•	•	•
	Remote Controller		•	•	•	•	•	•	•
	Auto Clean (self cleaning)		•	•	•	•	•	•	•
	Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C	-10~43	-10~43	-10~43	-10~43	-10~43	-10~43	-10~43
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24

Specifications of the real product can be different from the above.





MB

Memo

			CO R22	CO R22	CO R22
Refrigerant Type			220/60/1	220/60/1	220/60/1
Power Source	V/Hz/φ		220/60/1	220/60/1	220/60/1
Model Code			AS12AWA	AS18AWA	AS24AWA
<b>Performance</b>					
Capacity	Cooling	Btu/hr.	12,400	18,000	24,000
		Cal/hr.	3,125	4,536	6,048
		kW	3.63	5.10	6.80
	Heating	Btu/hr.	-	-	-
		Cal/hr.	-	-	-
		kW	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	10.00	9.47	9.23
		EER (W/W)	2.93	2.78	2.71
	Heating	COP (W/W)	-	-	-
Moisture Removal		ℓ /hr.	1.3	1.9	2.6
Air Circulation (Max)		m <sup>3</sup> /min	9	15	17
Noise Level	Indoor High/Low	dB	35 / 26	39 / 32	42 / 35
	Outdoor High	dB	45	52	55
<b>Electrical Data</b>					
Power Consumption	Cooling	W	1240	1900	2600
	Heating	W	-	-	-
Operating Current	Cooling	A	5.7	9	12
	Heating	A	-	-	-
<b>Dimension &amp; Loading Q'ty</b>					
Net Dimension (WxHxD)	Indoor	mm	900x304x185	1100x307x225	1100x307x225
	Outdoor	mm	720x548x265	790x548x285	880x638x310
Net Weight	Indoor	kg	10.2	12.7	12.7
	Outdoor	kg	33.8	39	56
Shipping Weight	Indoor	kg	11.5	16	16
	Outdoor	kg	35	43	53
Loading Q'ty	W Pipe	20/40ft/Jumbo	96/195/216	66/144/166	58/121/138
	W/O Pipe	20/40ft/Jumbo	102/214/230	69/150/168	54/115/129
<b>Technical Information</b>					
SVC Valve	Liquid	ODxL	Φ6.35mmX5.0m	Φ6.35mmX5.0m	Φ6.35mmX5.0m
	Gas	ODxL	Φ12.7mmX5.0m	Φ12.7mmX5.0m	Φ15.88mmX5.0m
Piping Length	STD	m	5	5	5
	Max	m	15	15	20
Piping Height	Max	m	7	8	8
Refrigerant			G		
Add Refrigerant			g/m		
<b>Features</b>					
MPI			•	•	•
Good'sleep II			•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•
	Silver Coated Evaporator		•	•	•
	DNA Filter		•	•	•
Pure & Clean Air	Pure Filter (HAF Filter)		•	•	•
	Catechin Filter		•	•	•
	Deodorizing Filter		•	•	•
Operating Mode	Digital i Plus		•	•	•
	Dehumidification		•	•	•
	Turbo Mode		•	•	•
	Timer		•	•	•
	Energy Saving Mode		•	•	•
	Auto Restart		•	•	•
	Auto Changeover		•	•	•
Convenience	Auto Wind		•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•
	Remote Controller		•	•	•
	Auto Clean (self cleaning)		•	•	•
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C			
	Heating	°C			











# Vivace

			C0 R22	C0 R22	C0 R22	C0 R22
Refrigerant Type						
Power Source	V/Hz/φ	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1	
Model Code		AS10VBL	AS12VBC	AS13VBL	AS18VBL	
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,500	12,000	12,300	18,000
		Cal/hr.	2,394	3,009	3,100	4,536
		kW	2.8	3.5	3.6	5.3
	Heating	Btu/hr.	-	-	-	-
		Cal/hr.	-	-	-	-
		kW	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	11.6	10.26	11.7	11.3
		EER (W/W)	3.40	2.99	3.43	3.31
	Heating	COP (W/W)	-	-	-	-
Moisture Removal	ℓ /hr.	1.0	1.3	1.5	2	
Air Circulation (Max)	m³/min	8.0	9	10	14	
Noise Level	Indoor High/Low	dB	32/26	36 / 26	36/28	40/32
	Outdoor High	dB	46	46	49	52
<b>Electrical Data</b>						
Power Consumption	Cooling	W	830	1170	1050	1600
	Heating	W	-	-	-	-
Operating Current	Cooling	A	-	-	-	-
	Heating	A	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	825X285X189	825X285X189	825X285X189	1065X298X214
	Outdoor	mm	720X548X265	720X548X265	720X548X265	790X548X285
Net Weight	Indoor	kg	8.5	9	8.5	12
	Outdoor	kg	31	31	34	41.5
Shipping Weight	Indoor	kg	10	11	10	14
	Outdoor	kg	33	33	36	44.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	96/205/233	96/205/233	96/205/233	82/170/197
	W/O Pipe	20/40ft/Jumbo	106/231/259	106/222/252	106/231/259	82/170/197
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmX5.0m	Φ6.35mmX5.0m	Φ6.35mmX5.0m	Φ6.35mmX5.0m
	Gas	ODxL	Φ9.52mmX5.0m	Φ12.7mmX5.0m	Φ12.7mmX5.0m	Φ15.88mmX5.0m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	15
Piping Height	Max	m	7	7	7	8
Refrigerant		G				
Add Refrigerant		g/m				
<b>Features</b>						
MPI			•	•	•	•
Good'sleep II			•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•
	Silver Coated Evaporator		•	•	•	•
Pure & Clean Air	DNA Filter		•	•	•	•
	Pure Filter (HAF Filter)		•	•	•	•
	Catechin Filter		•	•	•	•
Deodorizing Filter			•	•	•	•
			•	•	•	•
Operating Mode	Digital i Plus		•	•	•	•
	Dehumidification		•	•	•	•
	Turbo Mode		•	•	•	•
	Timer		•	•	•	•
	Energy Saving Mode		•	•	•	•
	Auto Restart		•	•	•	•
	Auto Changeover		•	•	•	•
Convenience	Auto Wind		•	•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•	•
	Remote Controller		•	•	•	•
	Auto Clean (self cleaning)		•	•	•	•
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				-10~43
	Heating	°C				-15~24

			C0 R22	C0 R22	C0 R22	C0 R22	C0 R22	C0 R22	S-Inverter R410a
Refrigerant Type									
Power Source	V/Hz/φ	220~240/50/1	220~240/50/1	220~240/50/1	220/60/1	220/60/1	220/60/1	220/60/1	220/60/1
Model Code		AS24VBL	AS18VBXTL	AS18VBXTL	AS12VBBC	AS18VBBE	AS24VBBC	AQV09VBCKCV	
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	23,200	18,000	18,000	12,000	18,000	23,200	9,000
		Cal/hr.	5,846	4,536	4,536	3,024	4,385	5,846	2,268
		kW	6.8	5.3	5.3	3.52	5.1	6.8	2.64
	Heating	Btu/hr.	-	-	-	-	-	-	12,000
		Cal/hr.	-	-	-	-	-	-	3,024
		kW	-	-	-	-	-	-	3.5
Energy Efficiency	Cooling	EER (Btu/W)	10.1	9.7	10.6	10.00	9.70	8.9	13.9
		EER (W/W)	2.96	2.85	3.10	2.63	2.75	2.62	4.06
	Heating	COP (W/W)	-	-	-	-	-	-	3.70
Moisture Removal	ℓ /hr.	2.5	2	2	1.5	1.9	2.5	1.0	
Air Circulation (Max)	m³/min	15	14	14	9.4	15	15	8.0	
Noise Level	Indoor High/Low	dB	42/35	40/32	40/32	36/26	40/32	42/35	31/21
	Outdoor High	dB	55	52	52	46	52	55	45
<b>Electrical Data</b>									
Power Consumption	Cooling	W	2300	1850	1700	1340	1856	2600	610
	Heating	W	-	-	-	-	-	-	850
Operating Current	Cooling	A	-	8.5	8.5	6.2	9	-	3.0
	Heating	A	-	-	-	-	-	-	4.1
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	1065X298X214	1065X298X222.5	1065X298X222.5	825x285x189	825x285x189	1065x298x214	825x285x189
	Outdoor	mm	880X638X310	790X548X285	880X648X310	660x470x240	790X548X285	790X548X285	790X548X285
Net Weight	Indoor	kg	12	12	12	9.0	9.0	13.0	9
	Outdoor	kg	51	39	49	26.0	39.0	41.0	32.6
Shipping Weight	Indoor	kg	14	14	14	11.0	11.0	16.0	11
	Outdoor	kg	55	42	42	27.5	43.0	45.0	35.4
Loading Q'ty	W Pipe	20/40ft/Jumbo	61/128/150	74/154/177	74/154/177	116/240/273	91/193/216	82/170/197	91/193/216
	W/O Pipe	20/40ft/Jumbo	66/138/153	-	-	136/280/303	101/209/233	82/170/197	101/209/233
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmX5.0m	Φ6.35mmX5.0m	Φ6.35mmX5.0m	Φ6.35mmx5m	Φ6.35mmX5m	Φ6.35mmX5m	Φ6.35mmx5m
	Gas	ODxL	Φ15.88mmX5.0m	Φ12.7mmX5.0m	Φ12.7mmX5.0m	Φ12.7mmx5m	Φ12.7mmX5m	Φ15.88mmX5m	Φ9.52mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	20	15	15	15	15	20	15
Piping Height	Max	m	8	8	8	7	8	8	8
Refrigerant		G							
Add Refrigerant		g/m							
<b>Features</b>									
MPI			•	•	•	•	•	•	•
Good'sleep II			•	•	•	•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•	•	•	•
	Silver Coated Evaporator		•	•	•	•	•	•	•
Pure & Clean Air	DNA Filter		•	•	•	•	•	•	•
	Pure Filter (HAF Filter)		•	•	•	•	•	•	•
	Catechin Filter		•	•	•	•	•	•	•
Deodorizing Filter			•	•	•	•	•	•	•
			•	•	•	•	•	•	•
Operating Mode	Digital i Plus		•	•	•	•	•	•	•
	Dehumidification		•	•	•	•	•	•	•
	Turbo Mode		•	•	•	•	•	•	•
	Timer		•	•	•	•	•	•	•
	Energy Saving Mode		•	•	•	•	•	•	•
	Auto Restart		•	•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•	•
Convenience	Auto Wind		•	•	•	•	•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•	•	•	•	•
	Remote Controller		•	•	•	•	•	•	•
	Auto Clean (self cleaning)		•	•	•	•	•	•	•
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	
Low Ambient	Cooling	°C							-10~43
	Heating	°C							-15~24

Specifications of the real product can be different from the above.



# Vivace

# Memo

			S-Inverter R410a	S-Inverter R410a	S-Inverter R410a
Refrigerant Type					
Power Source			V/Hz/φ	220/60/1	220/60/1
Model Code			AQV12VBCKCV	AQV18VBCKCV	AQV24VBCKCV
Performance					
Capacity	Cooling	Btu/hr.	12,000	18,000	24,000
		Cal/hr.	3,024	4,536	6,803
		kW	3.5	5.3	7.0
	Heating	Btu/hr.	13,600	20,500	27,000
		Cal/hr.	3,427	5,159	7.9
		kW	4.0	6.0	7.9
Energy Efficiency	Cooling	EER (Btu/W)	11.43	10.59	9.23
		EER (W/W)	3.35	3.10	2.70
	Heating	COP (W/W)	3.53	3.24	2.82
Moisture Removal		ℓ /hr.	1.4	2.5	3.0
Air Circulation (Max)		m <sup>3</sup> /min	9.0	13.0	15.0
Noise Level	Indoor High/Low	dB	35 / 21	40 / 30	41 / 30
	Outdoor High	dB	45	53	55
Electrical Data					
Power Consumption	Cooling	W	1050	1700	2600
	Heating	W	1130	1850	2800
Operating Current	Cooling	A	4.9	7.5	12.0
	Heating	A	5.3	8.2	13.0
Dimension & Loading Q'ty					
Net Dimension (WxHxD)	Indoor	mm	825x285x189	1065x298x218	1065x298x218
	Outdoor	mm	790x548x285	880x638x310	880x638x310
Net Weight	Indoor	kg	9	13	13
	Outdoor	kg	32.6	51	51
Shipping Weight	Indoor	kg	11	16	16
	Outdoor	kg	35.4	53	53
Loading Q'ty	W Pipe	20/40ft/Jumbo	91/193/216	61/128/150	61/128/150
	W/O Pipe	20/40ft/Jumbo	101/209/233	66/138/153	66/138/153
Technical Information					
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ15.88mmx5m
Piping Length	STD	m	5	5	5
	Max	m	15	30	30
Piping Height	Max	m	8	15	15
Refrigerant		G			
Add Refrigerant		g/m			
Features					
MPI			•	•	•
Good'sleep II			•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•
	Silver Coated Evaporator		•	•	•
Pure & Clean Air	DNA Filter				
	Pure Filter (HAF Filter)				
	Catechin Filter		•	•	•
	Deodorizing Filter		•	•	•
Operating Mode	Digital i Plus				
	Dehumidification		•	•	•
	Turbo Mode		•	•	•
	Timer		•	•	•
	Energy Saving Mode		•	•	•
	Auto Restart		•	•	•
	Auto Changeover		•	•	•
Convenience	Auto Wind		•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•
	Remote Controller		•	•	•
	Auto Clean (self cleaning)		•	•	•
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C	-10~43	-10~43	-10~43
	Heating	°C	-15~24	-15~24	-15~24



# Moderato

			HP R410a	HP R410a	HP R410a	HP R410a
Refrigerant Type			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power Source	V/Hz/φ					
Model Code			AQ09M*D	AQ12M*D	AQ18M*D	AQ24M*D
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	24,000
		Cal/hr.	2,322	3,095	4,471	5,847
		kW	2.7	3.6	5.2	6.8
	Heating	Btu/hr.	10,000	13,000	20,000	24,000
		Cal/hr.	2,494	3,267	4,987	6,019
		kW	2.9	3.8	5.8	7.0
Energy Efficiency	Cooling	EER (Btu/W)	11.0	11.0	9.6	9.6
		EER (W/W)	3.23	3.23	2.81	2.81
	Heating	COP (W/W)	3.44	3.22	3.22	2.81
Moisture Removal	ℓ/hr.		1.0	1.3	1.9	2.6
Air Circulation (Max)	m³/min		8	9	15	17
Noise Level	Indoor High/Low	dB	31 / 22	36 / 26	40 / 32	42 / 35
	Outdoor High	dB	45	45	52	55
<b>Electrical Data</b>						
Power Consumption	Cooling	W	836	1115	1850	2420
	Heating	W	843	1180	1800	2490
Operating Current	Cooling	A	3.9	5	8.3	10.8
	Heating	A	3.7	5.3	8.1	11.2
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	950x268x178	950x268x178	1099x315x217	1099x315x217
	Outdoor	mm	660x470x240	720x548x265	790x548x285	790x548x285
Net Weight	Indoor	kg	9.0	9.0	13.0	13.0
	Outdoor	kg	26.0	33.8	39.0	41.0
Shipping Weight	Indoor	kg	11.0	11.0	16.0	16.0
	Outdoor	kg	27.5	35.6	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	120/248/280	95/201/222	78/157/184	78/157/184
	W/O Pipe	20/40ft/Jumbo	128/264/305	100/211/243	78/157/184	78/157/184
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.88mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	20
Piping Height	Max	m	7	7	8	8
Refrigerant		G				
Add Refrigerant		g/m				
<b>Features</b>						
MPI						
Good'sleep II			●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)		●	●	●	●
	Catechin Filter		●	●	●	●
Deodorizing Filter			●	●	●	●
			●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover		●	●	●	●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●
	Remote Controller		●	●	●	●
Auto Clean (self cleaning)		●	●	●	●	
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			CO R22	CO R22	CO R22	CO R22	HP R22	HP R22	HP R22
Refrigerant Type			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
Power Source	V/Hz/φ								
Model Code			AS09M*D*	AS12M*D*	AS18M*D*	AS24M*D*	AQ09M*D	AQ12M*D*	AQ18M*D*
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	24,000	9,000	12,000	18,000
		Cal/hr.	2,268	2,650	3,750	5,847	2,322	2,650	3,750
		kW	2.7	3.5	5.1	6.8	2.7	3.5	5.1
	Heating	Btu/hr.	-	-	-	-	10,000	13,000	20,000
		Cal/hr.	-	-	-	-	2,494	3,276	4,800
		kW	-	-	-	-	2.9	3.80	5.60
Energy Efficiency	Cooling	EER (Btu/W)	9.18	10.00	9.47	9.23	9.18	9.60	9.47
		EER (W/W)	2.76	2.92	2.55	2.62	2.76	2.80	2.68
	Heating	COP (W/W)	-	-	-	-	3.26	3.23	2.95
Moisture Removal	ℓ/hr.		1	1.3	1.9	2.6	1.0	1.3	1.9
Air Circulation (Max)	m³/min		8	9	15	17	8	9	15
Noise Level	Indoor High/Low	dB	32/24	36/26	40/32	42/35	32 / 24	36/26	40/32
	Outdoor High	dB	46	47	52	55	46	47	52
<b>Electrical Data</b>									
Power Consumption	Cooling	W	980	1200	1900	2600	980	1250	1900
	Heating	W	-	-	-	-	900	1180	1900
Operating Current	Cooling	A	4.6	5.3	9.5	12.5	4.6	5.6	9
	Heating	A	-	-	-	-	4.1	5.2	9
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	950x268x178	950x268x178	1099x315x217	1099x315x217	950x268x178	950x268x178	1099x315x217
	Outdoor	mm	660x470x240	720x548x265	790x548x285	790x548x285	660x470x240	660x495x240	790x548x285
Net Weight	Indoor	kg	9.0	9.0	13.0	13.0	9.0	9.0	13.0
	Outdoor	kg	26.0	26.0	39.0	41.0	26.0	28.0	39.0
Shipping Weight	Indoor	kg	11.0	11.0	16.0	16.0	11.0	11.0	16.0
	Outdoor	kg	27.5	27.5	43.0	45.0	27.5	30	43.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	120/248/280	120/248/280	78/157/184	78/157/184	120/248/280	107/225/257	78/157/184
	W/O Pipe	20/40ft/Jumbo	128/264/305	128/264/305	78/157/184	78/157/184	128/264/305	116/242/282	78/157/184
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.88mmx5m	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	15	15	15	20	15	15	15
Piping Height	Max	m	7	7	8	8	7	7	8
Refrigerant		G							
Add Refrigerant		g/m							
<b>Features</b>									
MPI									
Good'sleep II			●	●	●	●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter								
	Pure Filter (HAF Filter)		●	●	●	●	●	●	●
	Catechin Filter		●	●	●	●	●	●	●
Deodorizing Filter			●	●	●	●	●	●	●
			●	●	●	●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●	●	●	●
	Remote Controller		●	●	●	●	●	●	●
Auto Clean (self cleaning)		●	●	●	●	●	●	●	
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY

Specifications of the real product can be different from the above.



## Moderato

Memo

			HP R22	CO R22	HP R22
Refrigerant Type					
Power Source			V/Hz/φ	220~240/50/1	220/60/1
Model Code			AQ24M*AD*	AS12MWBD	AQ12MWBD
<b>Performance</b>					
Capacity	Cooling	Btu/hr.	24,000	12,000	12,000
		Cal/hr.	5,847		2,650
		kW	6.8	3.5	3.5
	Heating	Btu/hr.	24,000	-	13,000
		Cal/hr.	6,019	-	3,276
		kW	7.00	-	3.8
Energy Efficiency	Cooling	EER (Btu/W)	9.23	10.00	10.00
		EER (W/W)	2.62	2.92	2.92
	Heating	COP (W/W)	2.64	-	3.07
Moisture Removal		ℓ/hr.	2.6	1.3	1.3
Air Circulation (Max)		m³/min	17	9	9
Noise Level	Indoor High/Low	dB	42/35	36/26	36/26
	Outdoor High	dB	55	46	46
<b>Electrical Data</b>					
Power Consumption	Cooling	W	2600	1200	1200
	Heating	W	2650	-	1240
Operating Current	Cooling	A	12.5	5.7	5.5
	Heating	A	12.5	-	5.7
<b>Dimension &amp; Loading Q'ty</b>					
Net Dimension (WxHxD)	Indoor	mm	1099x315x217	950x268x178	950x268x178
	Outdoor	mm	790x548x285	660x470x240	660x495x240
Net Weight	Indoor	kg	13.0	9.0	9.0
	Outdoor	kg	41.0	26.0	28.0
Shipping Weight	Indoor	kg	16.0	11.0	11.0
	Outdoor	kg	45.0	27.5	30
Loading Q'ty	W Pipe	20/40ft/Jumbo	78/157/184	120/248/280	107/225/257
	W/O Pipe	20/40ft/Jumbo	78/157/184	128/264/305	116/242/282
<b>Technical Information</b>					
SVC Valve	Liquid	ODxL	Φ6.35mmX5m	Φ6.35mmX5m	Φ6.35mmX5m
	Gas	ODxL	Φ15.88mmX5m	Φ12.7mmX5m	Φ12.7mmX5m
Piping Length	STD	m	5	5	5
	Max	m	20	15	15
Piping Height	Max	m	8	7	7
Refrigerant		G			
Add Refrigerant		g/m			
<b>Features</b>					
MPI					
Good'sleep II			●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●
	Silver Coated Evaporator		●	●	●
Pure & Clean Air	DNA Filter				
	Pure Filter (HAF Filter)				
	Catechin Filter		●	●	●
	Deodorizing Filter		●	●	●
Operating Mode	Digital i Plus		●	●	●
	Dehumidification		●	●	●
	Turbo Mode		●	●	●
	Timer		●	●	●
	Energy Saving Mode		●	●	●
	Auto Restart		●	●	●
	Auto Changeover		●	●	●
Convenience	Auto Wind		●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL
	Auto Grille				
	Remote Controller		●	●	●
Etc.	Auto Clean (self cleaning)		●	●	●
	Compressor Type		ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C			
	Heating	°C			

Specifications of the real product can be different from the above.





# Neo Forte

			HP	HP	HP	CO
			R22	R22	R22	R22
Refrigerant Type						
Power Source	V/Hz/φ	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
Model Code		AQ12NASER	AQ18NESER	AQ24NASER	AS10NL	
Performance						
Capacity	Cooling	Btu/hr.	12,000	18,000	24,000	9,500
		Cal/hr.	3,024	4,536	5,847	2,394
		kW	3.52	5.28	6.8	2.8
	Heating	Btu/hr.	13,000	20,000	24,000	-
		Cal/hr.	3,276	5,040	6,019	-
		kW	3.81	5.87	7.0	-
Energy Efficiency	Cooling	EER (Btu/W)	10.00	9.47	9.23	11.6
		EER (W/W)	2.93	2.78	2.62	3.37
	Heating	COP (W/W)	3.23	3.09	2.64	-
Moisture Removal	ℓ/hr.	1.5	1.8	2.6	1.0	
Air Circulation (Max)	m³/min	8.0	13.0	17	8.0	
Noise Level	Indoor High/Low	dB	36 / 26	40 / 32	42 / 35	33/25
	Outdoor High	dB	47	52	55	47
Electrical Data						
Power Consumption	Cooling	W	1200	1900	2600	830
	Heating	W	1180	1900	2650	-
Operating Current	Cooling	A	5.3	9.5	12.5	3.8
	Heating	A	5.2	9.0	12.5	-
Dimension & Loading Q'ty						
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	1065x298x218	825x285x189
	Outdoor	mm	660x495x240	790x548x285	790x548x285	720x548x265
Net Weight	Indoor	kg	8.4	8.4	13.0	8.5
	Outdoor	kg	28	39.0	41.0	31
Shipping Weight	Indoor	kg	10.6	10.6	16.0	10
	Outdoor	kg	30.0	43.0	45.0	33
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/268	91/193/216	82/170/197	96/205/233
	W/O Pipe	20/40ft/Jumbo	126/262/294	101/209/233	82/170/197	106/231/259
Technical Information						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ9.52mmx5m
Piping Length	STD	m	5	5	5	7.5
	Max	m	15	15	20	15
Piping Height	Max	m	7	8	8	7
Refrigerant	G		870	1030	1450	550
Add Refrigerant	g/m		20	30	40	20
Features						
MPI						●
Good'sleep II			●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)		●	●	●	●
	Catechin Filter		●	●	●	●
Deodorizing Filter			●	●	●	●
			●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover		●	●	●	●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●
	Remote Controller		●	●	●	●
Auto Clean (self cleaning)		●	●	●	●	
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			CO	CO	CO	CO	CO	CO	
			R22	R22	R22	R22	R22	R22	
			220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1	
			AS13NL	AS18NL	AS24NL	AS12NFAXTL	AS18NCAXTL	AS18NFAXTL	AS24NAXTL
Performance									
Capacity	Cooling	Btu/hr.	12,300	18,000	23,200	12,000	18,000	18,000	24,000
		Cal/hr.	3,100	4,536	5,846	3,024	4,536	4,536	6,048
		kW	3.6	5.3	6.8	3.5	5.3	5.3	7.0
	Heating	Btu/hr.	-	-	-	-	-	-	-
		Cal/hr.	-	-	-	-	-	-	-
		kW	-	-	-	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	11.7	11.3	10.1	9.8	10.0	10.0	9.8
		EER (W/W)	3.43	3.31	2.96	2.86	2.93	2.93	2.87
	Heating	COP (W/W)	-	-	-	-	-	-	-
Moisture Removal	ℓ/hr.	1.5	2	2.5	1.5	2	2	2.5	
Air Circulation (Max)	m³/min	10	14	15	10	14	14	15	
Noise Level	Indoor High/Low	dB	36/26	40/32	42/35	36/26	40/32	40/32	42/35
	Outdoor High	dB	48	52	55	47	52	52	55
Electrical Data									
Power Consumption	Cooling	W	1100	1600	2300	1230	1800	1800	2450
	Heating	W	-	-	-	-	-	-	-
Operating Current	Cooling	A	5.2	7.1	10	5.2	8.1	8.5	10
	Heating	A	-	-	-	-	-	-	-
Dimension & Loading Q'ty									
Net Dimension (WxHxD)	Indoor	mm	825x285x189	1065x298x218	1065x298x218	825x285x192.5	825x285x192.5	1065x298x222.5	1065x298x218
	Outdoor	mm	720x548x265	790x548x285	880x648x310	720x548x265	790x548x285	790x548x285	880x648x310
Net Weight	Indoor	kg	8.5	12	12	8.5	8.5	12	12
	Outdoor	kg	34	41.5	51	34	39	39	49
Shipping Weight	Indoor	kg	10	14	14	10	10	14	14
	Outdoor	kg	36	44.5	55	36	42	42	53
Loading Q'ty	W Pipe	20/40ft/Jumbo	96/205/233	82/170/197	61/128/150	93/198/228	74/154/177	74/154/177	55/120/137
	W/O Pipe	20/40ft/Jumbo	106/231/259	82/170/197	66/138/153	-	-	-	-
Technical Information									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	7.5	7.5	7.5	5	5	5	5
	Max	m	15	15	20	15	15	15	20
Piping Height	Max	m	7	8	8	7	8	8	8
Refrigerant	G		860	750	1700	830	850	1150	1350
Add Refrigerant	g/m		20	30	40	10	15	15	15
Features									
MPI			●	●	●	●	●	●	●
Good'sleep II			●	●	●	●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter		●	●	●	●	●	●	●
	Pure Filter (HAF Filter)		●	●	●	●	●	●	●
	Catechin Filter		●	●	●	●	●	●	●
Deodorizing Filter			●	●	●	●	●	●	●
			●	●	●	●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●	●	●	●
	Remote Controller		●	●	●	●	●	●	●
Auto Clean (self cleaning)		●	●	●	●	●	●	●	
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	

Specifications of the real product can be different from the above.





# Neo Forte

			C0	C0	C0	C0
			R22	R22	R22	R22
			220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
Model Code			AS09NA*	AS12NA*	AS18NE*	AS24NA*
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	24,000
		Cal/hr.	2,268	3,024	4,536	6,048
		kW	2.75	3.50	5.10	6.80
	Heating	Btu/hr.	-	-	-	-
		Cal/hr.	-	-	-	-
		kW	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.18	10.00	9.47	9.60
		EER (W/W)	2.81	2.92	2.68	2.72
	Heating	COP (W/W)	-	-	-	-
Moisture Removal		ℓ/hr.	1.0	1.5	1.8	2.4
	Air Circulation (Max)	m³/min	7.5	8.0	13.0	14.5
Noise Level	Indoor High/Low	dB	33/29/24	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	46	47	52	55
<b>Electrical Data</b>						
Power Consumption	Cooling	W	980	1200	1900	2500
	Heating	W	-	-	-	-
Operating Current	Cooling	A	4.6	5.5	9.5	12.0
	Heating	A	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	825x285x189	1065x298x218
	Outdoor	mm	660x470x240	660x470x240	790x548x285	790x548x285
Net Weight	Indoor	kg	8.4	8.4	8.4	13.0
	Outdoor	kg	26	26	39.0	41.0
Shipping Weight	Indoor	kg	10.6	10.6	10.6	16.0
	Outdoor	kg	27.5	27.5	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/273	116/240/273	91/193/216	82/170/197
	W/O Pipe	20/40ft/Jumbo	136/280/303	136/280/303	101/209/233	82/170/197
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	20
Piping Height	Max	m	7	7	8	8
Refrigerant		G	545	680	1030	1350
Add Refrigerant		g/m	-	20	30	40
<b>Features</b>						
MPI						
			●	●	●	●
Good'sleep II			●	●	●	●
			●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter		●	●	●	●
	Pure Filter (HAF Filter)		●	●	●	●
	Catechin Filter		●	●	●	●
	Deodorizing Filter		●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover		●	●	●	●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●
Etc.	Remote Controller		●	●	●	●
	Auto Clean (self cleaning)		●	●	●	●
Low Ambient	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
	Cooling	°C				
	Heating	°C				

			C0	C0	C0	C0	HP	HP	HP
			R22	R22	R22	R22	R22	R22	R22
			220/60/1	220/60/1	220/60/1	220/60/1	220/60/1	220/60/1	220/60/1
Model Code			AS09NBA*	AS12NBA*	AS18NBE*	AS24NBA*	AQ12NBA*	AQ18NBE*	AQ24NBA*
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	24,000	12,000	18,000	24,000
		Cal/hr.	2,268	3,024	4,536	5,847	3,024	4,536	5,847
		kW	2.75	3.52	5.10	6.8	3.52	5.10	6.8
	Heating	Btu/hr.	-	-	-	-	13,000	20,000	24,000
		Cal/hr.	-	-	-	-	3,276	5,040	6,019
		kW	-	-	-	-	3.81	5.60	7.00
Energy Efficiency	Cooling	EER (Btu/W)	9.38	10.00	9.00	9.23	10.00	9.47	9.23
		EER (W/W)	2.86	2.93	2.55	2.62	2.93	2.68	2.62
	Heating	COP (W/W)	-	-	-	-	3.07	3.26	2.64
Moisture Removal		ℓ/hr.	1.0	1.5	1.8	2.7	1.5	1.8	2.7
	Air Circulation (Max)	m³/min	7.5	8.0	13.0	17	8	13	17
Noise Level	Indoor High/Low	dB	33/29/24	36/31/26	40/36/32	42/39/35	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	46	47	52	55	47	52	55
<b>Electrical Data</b>									
Power Consumption	Cooling	W	960	1200	2000	2600	1200	1900	2600
	Heating	W	-	-	-	-	1240	1800	6500
Operating Current	Cooling	A	4.3	6.8	9.5	12	5.5	8.8	12
	Heating	A	-	-	-	12	5.7	8.2	12
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	-	1065x298x214	825x285x189	-	1065x298x218
	Outdoor	mm	660x475x242	660x475x242	-	790x548x285	720x548x265	-	790x548x285
Net Weight	Indoor	kg	9	8.4	-	13	8.4	-	13.0
	Outdoor	kg	25	29	-	39	33.8	-	39.0
Shipping Weight	Indoor	kg	11	10.4	-	16	10.4	-	16.0
	Outdoor	kg	27.5	31	-	43	35.8	-	43.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	96/205/233	96/205/233	-	61/128/150	96/205/233	-	61/128/150
	W/O Pipe	20/40ft/Jumbo	106/231/259	106/231/259	-	66/138/153	106/231/259	-	66/138/153
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ15.8mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	15	15	15	20	15	15	20
Piping Height	Max	m	7	7	8	8	7	8	8
Refrigerant		G	465	680	1000	1300	960	1140	1420
Add Refrigerant		g/m	-	20	30	40	20	30	40
<b>Features</b>									
MPI									
			●	●	●	●	●	●	●
Good'sleep II			●	●	●	●	●	●	●
			●	●	●	●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter		●	●	●	●	●	●	●
	Pure Filter (HAF Filter)		●	●	●	●	●	●	●
	Catechin Filter		●	●	●	●	●	●	●
	Deodorizing Filter		●	●	●	●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●	●	●	●
Etc.	Remote Controller		●	●	●	●	●	●	●
	Auto Clean (self cleaning)		●	●	●	●	●	●	●
Low Ambient	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Cooling	°C							
	Heating	°C							

Specifications of the real product can be different from the above.





# Forte

			HP	HP	HP	HP
			R22	R22	R22	R22
Refrigerant Type						
Power Source	V/Hz/φ		220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
Model Code			AQ09XA	AQ09SA	AQ12FC	AQ18FE
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,300	9,000	12,000	18,000
		Cal/hr.	2,344	2,268	3,024	4,536
		kW	2.73	2.50	3.52	5.10
	Heating	Btu/hr.	9,500	10,000	13,000	20,000
		Cal/hr.	2,394	2,520	3,276	5,040
		kW	2.78	2.75	3.81	5.60
Energy Efficiency	Cooling	EER (Btu/W)	9.30	9.38	9.52	9.47
		EER (W/W)	2.73	2.60	2.79	2.68
	Heating	COP (W/W)	3.09	3.02	3.28	2.95
Moisture Removal	ℓ/hr.	1.0	1	1.5	1.8	
Air Circulation (Max)	m³/min	7.5	7.0	9.2	13	
Noise Level	Indoor High/Low	dB	36/32/26	32/28/24	36 / 26	40 / 32
	Outdoor High	dB	48	46	47	52
<b>Electrical Data</b>						
Power Consumption	Cooling	W	1000	960	1260	1900
	Heating	W	900	910	1160	1900
Operating Current	Cooling	A	4.5	4.3	5.8	9
	Heating	A	4.0	4.0	5.3	9
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	728x255x184	728x255x185	825x285x189	825x285x189
	Outdoor	mm	660x470x240	660x470x240	660x495x240	790x548x285
Net Weight	Indoor	kg	7.5	6.8	8.4	8.4
	Outdoor	kg	25.0	26.0	28.0	39.0
Shipping Weight	Indoor	kg	8.5	8.6	10.6	10.6
	Outdoor	kg	27	27.5	30.0	43.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	128/276/303	128/276/304	116/240/268	91/193/216
	W/O Pipe	20/40ft/Jumbo	151/310/336	142/299/336	126/262/294	101/209/233
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	15
Piping Height	Max	m	7	7	7	8
Refrigerant	G		570	470	760	1030
Add Refrigerant	g/m		20	-	20	30
<b>Features</b>						
MPI						
Good'sleep II						
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)					
	Catechin Filter			●	●	●
	Deodorizing Filter			●	●	●
	Digital I Plus					
Operating Mode	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover		●	●	●	●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille					
	Remote Controller		●	●	●	●
Etc.	Auto Clean (self cleaning)			●	●	●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			HP	CO	CO	CO	CO	CO	CO
			R22	R22	R22	R22	R22	R22	R22
			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
			AQ24FC	AS09FC	AS09SA	AS12FC	AS12FCHAC	AS18FC	AS18FE
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	24,000	9,000	9,000	12,000	12,000	18,000	18,000
		Cal/hr.	5,847	2,268	2,268	3,024	3,024	4,536	4,536
		kW	6.8	2.75	2.50	3.50	3.50	5.10	5.10
	Heating	Btu/hr.	24,000	-	-	-	-	-	-
		Cal/hr.	6,019	-	-	-	-	-	-
		kW	7.0	-	-	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.23	9.18	9.28	9.52	9.52	9.47	9.47
		EER (W/W)	2.62	2.81	2.58	2.78	2.78	2.68	2.68
	Heating	COP (W/W)	2.64	-	-	-	-	-	-
Moisture Removal	ℓ/hr.	2.6	1.0	1	1.5	1.5	1.8	1.8	
Air Circulation (Max)	m³/min	17	7.5	7	9.3	9.3	13	13	
Noise Level	Indoor High/Low	dB	42 / 35	32/29/24	32/29/24	36/31/26	36/31/26	40/36/32	40/36/32
	Outdoor High	dB	55	46	46	47	47	52	52
<b>Electrical Data</b>									
Power Consumption	Cooling	W	2600	980	970	1260	1260	1900	1900
	Heating	W	2650	-	-	-	-	-	-
Operating Current	Cooling	A	12.5	4.6	4.3	5.8	5.8	9.5	9.5
	Heating	A	12.5	-	-	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	1065x298x218	825x285x189	728x255x185	825x285x189	825x285x189	1065x298x218	825x285x189
	Outdoor	mm	790x548x285	660x470x240	660x470x240	660x470x240	660x470x240	790x548x285	790x548x285
Net Weight	Indoor	kg	13.0	8.4	6.8	8.4	8.4	13.0	8.4
	Outdoor	kg	41.0	26.0	26.0	26	26	39.0	39.0
Shipping Weight	Indoor	kg	16.0	10.6	8.6	10.6	10.6	16.0	10.6
	Outdoor	kg	45.0	27.5	27.5	27.5	27.5	43.0	43.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	82/170/197	116/240/273	128/276/304	116/240/273	116/240/273	82/170/197	91/193/216
	W/O Pipe	20/40ft/Jumbo	82/170/197	136/280/303	142/299/336	136/280/303	136/280/303	82/170/197	101/209/233
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ15.8mmx5m	Φ9.52mmx5m	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	20	15	15	15	15	15	15
Piping Height	Max	m	8	7	7	7	7	8	8
Refrigerant	G		1450	545	470	680	680	1030	1030
Add Refrigerant	g/m		40	-	-	20	20	30	30
<b>Features</b>									
MPI									
Good'sleep II									
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter								
	Pure Filter (HAF Filter)								
	Catechin Filter				●	●	●	●	●
	Deodorizing Filter				●	●	●	●	●
	Digital I Plus								
Operating Mode	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille								
	Remote Controller		●	●	●	●	●	●	●
Etc.	Auto Clean (self cleaning)				●	●	●	●	●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C							
	Heating	°C							

Specifications of the real product can be different from the above.



# Forte

Refrigerant Type			CO	CO	CO	HP
Power Source			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Model Code			AS18FCHAC	AS24FC	AS24FCHAC	AQ09FC
Performance						
Capacity	Cooling	Btu/hr.	18,000	24,000	24,000	9,000
		Cal/hr.	4,536	5,847	5,847	2,268
		kW	5.10	6.8	6.8	2.70
	Heating	Btu/hr.	-	-	-	10,000
		Cal/hr.	-	-	-	2,520
		kW	-	-	-	2.90
Energy Efficiency	Cooling	EER (Btu/W)	9.00	9.23	9.23	9.18
		EER (W/W)	2.55	2.62	2.72	2.76
	Heating	COP (W/W)	-	-	-	3.26
Moisture Removal		ℓ /hr.	1.8	2.6	2.6	1
	Air Circulation (Max)	m³/min	13	17	17	7.5
Noise Level	Indoor High/Low	dB	40/36/32	42/39/35	42/39/35	32/29/24
	Outdoor High	dB	52	55	55	46
Electrical Data						
Power Consumption	Cooling	W	2000	2600	2500	980
	Heating	W	-	-	-	900
Operating Current	Cooling	A	9.5	12.5	12	4.6
	Heating	A	-	-	-	4.1
Dimension & Loading Q'ty						
Net Dimension (WxHxD)	Indoor	mm	1065x298x218	1065x298x218	1065x298x218	825x285x189
	Outdoor	mm	790x548x285	790x548x285	790x548x285	660x470x240
Net Weight	Indoor	kg	13.0	13.0	13.0	8.4
	Outdoor	kg	39.0	41.0	41.0	26.0
Shipping Weight	Indoor	kg	16.0	16.0	16.0	10.6
	Outdoor	kg	43.0	45.0	45.0	27.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	82/170/197	82/170/197	82/170/197	116/240/273
	W/O Pipe	20/40ft/Jumbo	82/170/197	82/170/197	82/170/197	136/280/303
Technical Information						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ15.8mmx5m	Φ15.8mmx5m	Φ9.52mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	20	20	15
Piping Height	Max	m	8	8	8	7
Refrigerant		G	-	1450	1450	545
Add Refrigerant		g/m	-	40	40	-
Features						
MPI						
Good'sleep II			•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•
	Silver Coated Evaporator		•	•	•	•
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)		•	•	•	•
	Catechin Filter		•	•	•	•
	Deodorizing Filter		•	•	•	•
	Digital i Plus					
Operating Mode	Dehumidification		•	•	•	•
	Turbo Mode		•	•	•	•
	Timer		•	•	•	•
	Energy Saving Mode		•	•	•	•
	Auto Restart		•	•	•	•
	Auto Changeover		•	•	•	•
Convenience	Auto Wind		•	•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille					
	Remote Controller		•	•	•	•
Etc.	Auto Clean (self cleaning)		•	•	•	•
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

Refrigerant Type			HP	HP	HP	HP	HP	HP	HP
Power Source			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
Model Code			AQ09SA	AQ12FC	AQ12FCHAC	AQ18FC	AQ18FE	AQ18FCHAC	AQ24FC
Performance									
Capacity	Cooling	Btu/hr.	9,000	12,000	12,000	18,000	18,000	18,000	24,000
		Cal/hr.	2,268	3,024	3,024	4,536	4,536	4,536	5,847
		kW	2.50	3.52	3.52	5.10	5.10	5.10	6.8
	Heating	Btu/hr.	10,000	13,000	13,000	20,000	20,000	20,000	24,000
		Cal/hr.	2,520	3,276	3,276	5,040	5,040	5,040	6,019
		kW	2.75	3.81	3.81	5.60	5.60	5.60	7.00
Energy Efficiency	Cooling	EER (Btu/W)	9.38	9.52	9.52	9.47	9.47	9.47	9.23
		EER (W/W)	2.60	2.79	2.79	2.68	2.68	2.68	2.62
	Heating	COP (W/W)	3.22	3.28	3.28	3.09	3.09	2.95	2.64
Moisture Removal		ℓ /hr.	1	1.5	1.5	1.8	1.8	1.8	2.6
	Air Circulation (Max)	m³/min	7.5	9.2	9.2	13	13	13	17
Noise Level	Indoor High/Low	dB	32/29/24	36/31/26	36/31/26	40/36/32	40/36/32	40/36/32	42/39/35
	Outdoor High	dB	46	47	47	52	52	52	55
Power Consumption	Cooling	W	960	1260	1260	1900	1900	1900	2600
	Heating	W	910	1160	1160	1900	1900	1900	2650
Operating Current	Cooling	A	4.3	5.8	5.8	9.5	9.5	9	12.5
	Heating	A	4	5.3	5.3	9	9	9	12.5
Net Dimension (WxHxD)	Indoor	mm	728x255x185	825x285x189	825x285x189	1065x298x218	825x285x189	1065x298x218	1065x298x218
	Outdoor	mm	660x470x240	660x495x240	660x495x240	790x548x285	790x548x285	790x548x285	790x548x285
Net Weight	Indoor	kg	6.8	8.4	8.4	13.0	8.4	13.0	13.0
	Outdoor	kg	26.0	28	28	39.0	39.0	39.0	41.0
Shipping Weight	Indoor	kg	8.6	10.6	10.6	16.0	10.6	16.0	16.0
	Outdoor	kg	27.5	30	30	43.0	43.0	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	128/276/304	116/240/268	116/240/268	82/170/197	91/193/216	82/170/197	82/170/197
	W/O Pipe	20/40ft/Jumbo	142/299/336	126/262/294	126/262/294	82/170/197	101/209/233	82/170/197	82/170/197
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	15	15	15	15	15	15	20
Piping Height	Max	m	7	7	7	8	8	8	8
Refrigerant		G	470	760	760	-	-	-	1450
Add Refrigerant		g/m	-	20	20	30	30	30	40
MPI			•	•	•	•	•	•	•
Good'sleep II			•	•	•	•	•	•	•
Silver Nano Health System	Silver Coated Filter		•	•	•	•	•	•	•
	Silver Coated Evaporator		•	•	•	•	•	•	•
Pure & Clean Air	DNA Filter								
	Pure Filter (HAF Filter)		•	•	•	•	•	•	•
	Catechin Filter		•	•	•	•	•	•	•
	Deodorizing Filter		•	•	•	•	•	•	•
	Digital i Plus								
Operating Mode	Dehumidification		•	•	•	•	•	•	•
	Turbo Mode		•	•	•	•	•	•	•
	Timer		•	•	•	•	•	•	•
	Energy Saving Mode		•	•	•	•	•	•	•
	Auto Restart		•	•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•	•
Convenience	Auto Wind		•	•	•	•	•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille								
	Remote Controller		•	•	•	•	•	•	•
Etc.	Auto Clean (self cleaning)		•	•	•	•	•	•	•
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY

Specifications of the real product can be different from the above.



# Forte

			HP	CO	CO	CO
			R22	R22	R22	R22
Refrigerant Type						
Power Source	V/Hz/φ		220~240/50/1	220/60/1	220/60/1	220/60/1
Model Code			AQ24FCHAC	AS12FC	AS18FC	AS24FC
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	24,000	12,000	18,000	24,000
		Cal/hr.	5,847	3,024		5,847
		kW	6.8	3.52	5.1/3.85	6.8
	Heating	Btu/hr.	24,000	-	-	-
		Cal/hr.	6,019	-	-	-
		kW	7.00	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.60	10.00	9.47	9.23
		EER (W/W)	2.72	2.93	2.68	2.62
	Heating	COP (W/W)	2.64	-	3.26	-
Moisture Removal		ℓ /hr.	2.6	1.5	1.8	2.69
	Air Circulation (Max)	m³/min	17	8.0	13.0	17
Noise Level	Indoor High/Low	dB	42/39/35	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	55	47	52	55
<b>Electrical Data</b>						
Power Consumption	Cooling	W	2500	1200	1900/2250	2600
	Heating	W	2650	-	-	-
Operating Current	Cooling	A	12	6.8	8.8/10.1	12
	Heating	A	12.5	-	-	12
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	1065x298x218	825x285x189	1065x298x218	1065x298x218
	Outdoor	mm	790x548x285	660x470x240	790x548x285	790x548x285
Net Weight	Indoor	kg	13.0	8.4	13.0	13.0
	Outdoor	kg	41.0	26	39.0	41.0
Shipping Weight	Indoor	kg	16.0	10.6	16.0	16.0
	Outdoor	kg	45.0	27.5	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	82/170/197	116/240/273	82/170/197	82/170/197
	W/O Pipe	20/40ft/Jumbo	82/170/197	136/280/303	82/170/197	82/170/197
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ15.8mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	20	15	15	20
Piping Height	Max	m	8	7	8	8
Refrigerant	G		1450	680	950	1420
Add Refrigerant	g/m		40	20		40
<b>Features</b>						
MPI						
Good'sleep II						
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)		●	●	●	●
	Catechin Filter		●	●	●	●
Deodorizing Filter			●	●	●	●
			●	●	●	●
Operating Mode	Digital i Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover		●	●	●	●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●
	Remote Controller		●	●	●	●
Etc.	Auto Clean (self cleaning)		●	●	●	●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			HP	HP	HP	CO	CO	CO	CO
			R22	R22	R22	R22	R22	R22	R22
			220/60/1	220/60/1	220/60/1	220~240/50/1	220~240/50/1	220~240/50/1	220~240/50/1
			AQ12FC	AQ18FC	AQ24FC	AS05XL	AS07XL	AS09XL	AS09FL
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	12,000	18,000	24,000	5,000	7,000	9,000	9,500
		Cal/hr.	3,024	4,536	5,847	1,260	1,764	2,268	2,394
		kW	3.52	5.10	6.8	1.5	2.1	2.6	2.8
	Heating	Btu/hr.	13,000	20,000	24,000	-	-	-	-
		Cal/hr.	3,276	5,040	6,019	-	-	-	-
		kW	3.81	5.60	7.00	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.52	9.47	9.23	12.8	12.3	11.3	11.3
		EER (W/W)	2.79	2.68	2.62	3.76	3.60	3.30	3.31
	Heating	COP (W/W)	3.28	3.26	2.64	-	-	-	-
Moisture Removal		ℓ /hr.	1.5	1.8	2.7	0.6	0.8	1	1
	Air Circulation (Max)	m³/min	9.2	13.0	17	4.5	6	8	8.0
Noise Level	Indoor High/Low	dB	36/31/26	40/36/32	42/39/35	30/22	32/24	32/24	32/29/24
	Outdoor High	dB	47	52	55	43	44	46	47
<b>Electrical Data</b>									
Power Consumption	Cooling	W	1260	1900/2250	2600	390	570	800	840
	Heating	W	1160	1800	6500	-	-	-	-
Operating Current	Cooling	A	5.8	8.8/10.1	12	2	3.0	4.0	3.9
	Heating	A	5.3	8.2	12	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	825x285x189	1065x298x218	1065x298x218	728x255x170	728x255x170	728x255x184	825x285x189
	Outdoor	mm	660x495x240	790x548x285	790x548x285	660x470x240	660x470x240	660x470x240	660x470x240
Net Weight	Indoor	kg	8.4	13.0	13.0	7.0	7.0	7.5	8
	Outdoor	kg	28	39.0	41.0	23.0	23.0	24.5	24.5
Shipping Weight	Indoor	kg	10.6	16.0	16.0	8	8	8.5	9.5
	Outdoor	kg	30	43.0	45.0	25	25	26.5	26.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/268	82/170/197	82/170/197	130/276/310	130/276/310	128/276/303	116/240/273
	W/O Pipe	20/40ft/Jumbo	126/262/294	82/170/197	82/170/197	151/310/345	151/310/345	151/310/336	136/280/303
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ9.52mmx5m	Φ9.52mmx5m	Φ9.52mmx5m	Φ12.7mmx5m
Piping Length	STD	m	5	5	5	5	5	5	7.5
	Max	m	15	15	20	15	15	15	15
Piping Height	Max	m	7	8	8	7	7	7	7
Refrigerant	G		760	1100	1420				
Add Refrigerant	g/m		20		40				
<b>Features</b>									
MPI									
Good'sleep II									
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter								
	Pure Filter (HAF Filter)		●	●	●	●	●	●	●
	Catechin Filter		●	●	●	●	●	●	●
Deodorizing Filter			●	●	●	●	●	●	●
			●	●	●	●	●	●	●
Operating Mode	Digital i Plus		●	●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		●	●	●	●	●	●	●
	Remote Controller		●	●	●	●	●	●	●
Etc.	Auto Clean (self cleaning)		●	●	●	●	●	●	●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY

Specifications of the real product can be different from the above.



# Forte

			C0	C0	C0	C0
			R22	R22	R22	R22
			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
			AS10FL	AS12FL	AS13FL	AS18FL
<b>Refrigerant Type</b>						
Power Source			V/Hz/φ			
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,500	12000	12,300	18,000
		Cal/hr.	2,394	3024	3,100	4,536
		kW	2.8	3.5	3.6	5.3
	Heating	Btu/hr.	-	-	-	-
		Cal/hr.	-	-	-	-
		kW	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	11.3	10.7	11.2	9.7
		EER (W/W)	3.31	3.14	3.28	2.85
	Heating	COP (W/W)	-	-	-	-
Moisture Removal		ℓ/hr.	1	1.5	1.5	2
	Air Circulation (Max)	m³/min	8.0	10	10	14
Noise Level	Indoor High/Low	dB	33/25	36/26	36/26	40/32
	Outdoor High	dB	47	47	48	52
<b>Electrical Data</b>						
Power Consumption	Cooling	W	840	1120	1100	1850
	Heating	W	-	-	-	-
Operating Current	Cooling	A	3.9	5.3	5.2	9
	Heating	A	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	825x285x189	825x285x189
	Outdoor	mm	660x470x240	660x470x240	660x470x240	790x548x285
Net Weight	Indoor	kg	8	8.5	8.5	9
	Outdoor	kg	24.5	25.5	25.5	41.5
Shipping Weight	Indoor	kg	9.5	10	10	11
	Outdoor	kg	26.5	27.5	27.5	44.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/273	116/240/273	116/240/273	85/180/204
	W/O Pipe	20/40ft/Jumbo	136/280/303	136/280/303	136/280/303	85/191/222
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m
Piping Length	STD	m	7.5	7.5	7.5	7.5
	Max	m	15	15	15	15
Piping Height	Max	m	7	7	7	7
Refrigerant		G				
Add Refrigerant		g/m				
<b>Features</b>						
MPI						
Good'sleep II						
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)					
	Catechin Filter		●		●	
	Deodorizing Filter		●		●	
Operating Mode	Digital I Plus					
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode					
	Auto Restart		●	●	●	●
	Auto Changeover					
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille					
	Remote Controller		●	●	●	●
	Auto Clean (self cleaning)					
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			C0	C0	C0	C0	C0	C0	C0
			R22	R22	R22	R22	R22	R22	R22
			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
			AS24FL	AS18FL	AS24FL	AS09FCAXTL	AS12FJXTL	AS12FKAXTL	AS18FCAXTL
<b>Performance</b>									
Capacity	Cooling	Btu/hr.	24,000	18,000	23,200	9,000	12,000	12,000	18,000
		Cal/hr.	6,048	4,536	5,846	2,268	3,024	3,024	4,536
		kW	7.0	5.3	6.8	2.64	3.5	3.5	5.3
	Heating	Btu/hr.	-	-	-	-	-	-	-
		Cal/hr.	-	-	-	-	-	-	-
		kW	-	-	-	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	10.2	11.3	10.1	9.47	8.9	8.9	9.5
		EER (W/W)	2.99	3.30	2.96	2.78	2.61	2.61	2.78
	Heating	COP (W/W)	-	-	-	-	-	-	-
Moisture Removal		ℓ/hr.	2.5	2	2.5	1	1.5	1.5	2
	Air Circulation (Max)	m³/min	15	14	15	7.5	10	10	14
Noise Level	Indoor High/Low	dB	42/35	40/32	42/35	32/29/24	36/26	36/26	40/32
	Outdoor High	dB	55	52	55	46	47	47	52
<b>Electrical Data</b>									
Power Consumption	Cooling	W	2350	1600	2300	950	1350	1350	1900
	Heating	W	-	-	-	-	-	-	-
Operating Current	Cooling	A	10.7	7.1	10	4	5.5	5.5	8.1
	Heating	A	-	-	-	-	-	-	-
<b>Dimension &amp; Loading Q'ty</b>									
Net Dimension (WxHxD)	Indoor	mm	1065x298x218	1065x298x218	1065x298x218	728x255x184	825x285x192.5	825x285x192.5	825x285x192.5
	Outdoor	mm	880x648x310	790x548x285	880x648x310	720x548x265	720x548x265	720x548x265	790x548x285
Net Weight	Indoor	kg	12	12	12	7.5	8.5	8.5	8.5
	Outdoor	kg	51	41.5	51	34	34	34	39
Shipping Weight	Indoor	kg	14	12	14	8.5	10	10	10
	Outdoor	kg	55	44.5	55	36	36	36	42
Loading Q'ty	W Pipe	20/40ft/Jumbo	61/128/150	82/170/197	61/128/150	93/198/228	93/198/228	93/198/228	74/154/177
	W/O Pipe	20/40ft/Jumbo	66/138/153	82/170/197	66/138/153	-	-	-	-
<b>Technical Information</b>									
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5.0m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ15.8mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ9.52mmx5.0m	Φ12.7mmx5m	Φ12.7mmx5m	Φ12.7mmx5m
Piping Length	STD	m	7.5	7.5	7.5	5	5	5	5
	Max	m	20	15	20	15	15	15	15
Piping Height	Max	m	8	8	8	7	7	7	8
Refrigerant		G				550	700	700	980
Add Refrigerant		g/m				10	10	10	15
<b>Features</b>									
MPI									
Good'sleep II									
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter								
	Pure Filter (HAF Filter)								
	Catechin Filter		●		●		●		●
	Deodorizing Filter		●		●		●		●
Operating Mode	Digital I Plus								
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode								
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover								
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille								
	Remote Controller		●	●	●	●	●	●	●
	Auto Clean (self cleaning)								
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY

Specifications of the real product can be different from the above.



# Forte

Refrigerant Type			CO	CO	CO	CO
Power Source			R22	R22	R22	R22
Model Code			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Performance			AS18FJXTL	AS18FKAXTL	AS24FJXTL	AS09SA
Capacity	Cooling	Btu/hr.	18,000	18,000	24,000	9,000
		Cal/hr.	4,536	4,536	6,048	2,268
		kW	5.3	5.3	7.0	2.50
	Heating	Btu/hr.	-	-	-	-
		Cal/hr.	-	-	-	-
		kW	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.2	9.5	9.8	9.28
		EER (W/W)	2.69	2.78	2.87	2.58
	Heating	COP (W/W)	-	-	-	-
Moisture Removal		ℓ /hr.	2	2	2.5	1
Air Circulation (Max)		m³/min	14	14	15	7
Noise Level	Indoor High/Low	dB	40/32	40/32	42/35	32/29/24
	Outdoor High	dB	52	52	55	46
Electrical Data						
Power Consumption	Cooling	W	1960	1900	2450	970
	Heating	W	-	-	-	-
Operating Current	Cooling	A	8.5	8.1	10	4.3
	Heating	A	-	-	-	-
Dimension & Loading Q'ty						
Net Dimension (WxHxD)	Indoor	mm	1065x298x222.5	825x285x192.5	1065x298x222.5	728x255x185
	Outdoor	mm	790x548x285	790x548x285	880x648x310	660x470x240
Net Weight	Indoor	kg	12	8.5	12	6.8
	Outdoor	kg	39	39	49	26.0
Shipping Weight	Indoor	kg	14	10	14	8.6
	Outdoor	kg	42	42	53	27.5
Loading Q'ty	W Pipe	20/40ft/Jumbo	74/154/177	74/154/177	55/120/137	128/276/304
	W/O Pipe	20/40ft/Jumbo	-	-	-	142/299/336
Technical Information						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ9.52mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	20	15
Piping Height	Max	m	8	8	8	7
Refrigerant		G	1000	980	1350	470
Add Refrigerant		g/m	15	15	15	-
Features						
MPI						
Good'sleep II			●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					●
	Pure Filter (HAF Filter)					●
	Catechin Filter		●	●	●	●
	Deodorizing Filter		●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
	Auto Changeover					●
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille					●
	Remote Controller		●	●	●	●
Etc.	Auto Clean (self cleaning)					●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

Refrigerant Type			CO	CO	CO	HP	HP	HP	HP
Power Source			R22	R22	R22	R22	R22	R22	R22
Model Code			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
Performance			AS12FC	AS18FE	AS24FC	AQ09SA	AQ12FC	AQ18FE	AQ24FC
Capacity	Cooling	Btu/hr.	12,000	18,000	24,000	9,000	12,000	18,000	24,000
		Cal/hr.	3,024	4,536	6,048	2,268	3,024	4,536	5,847
		kW	3.50	5.10	6.80	2.50	3.52	5.10	6.8
	Heating	Btu/hr.	-	-	-	10,000	13,000	20,000	24,000
		Cal/hr.	-	-	-	2,520	3,276	5,040	6,019
		kW	-	-	-	2.75	3.81	5.60	7.00
Energy Efficiency	Cooling	EER (Btu/W)	10.00	-	9.23	9.38	10.00	9.47	9.23
		EER (W/W)	2.92	2.55	2.62	2.60	2.93	2.68	2.62
	Heating	COP (W/W)	-	-	-	3.22	3.23	2.95	2.64
Moisture Removal		ℓ /hr.	1.5	1.8	2.7	1	1.5	1.8	2.7
Air Circulation (Max)		m³/min	8.0	13.0	17	7.5	8.0	13.0	17
Noise Level	Indoor High/Low	dB	36/31/26	40/36/32	42/39/35	32/29/24	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	47	52	55	46	47	52	55
Power Consumption	Cooling	W	1200	2000	2600	960	1200	1900	2600
	Heating	W	-	-	-	910	1180	1900	6500
Operating Current	Cooling	A	5.5	9.5	12	4.3	5.3	9.0	12
	Heating	A	-	-	12	4	5.2	9.0	12
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	1065x298x218	728x255x185	825x285x189	825x285x189	1065x298x218
	Outdoor	mm	660x470x240	790x548x285	790x548x285	660x470x240	660x495x240	790x548x285	790x548x285
Net Weight	Indoor	kg	8.4	8.4	13.0	6.8	8.4	8.4	13.0
	Outdoor	kg	26	39.0	41.0	26.0	28	39.0	41.0
Shipping Weight	Indoor	kg	10.6	10.6	16.0	8.6	10.6	10.6	16.0
	Outdoor	kg	27.5	43.0	45.0	27.5	30	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/273	91/193/216	82/170/197	128/276/304	116/240/268	91/193/216	82/170/197
	W/O Pipe	20/40ft/Jumbo	136/280/303	101/209/233	82/170/197	142/299/336	126/262/294	101/209/233	82/170/197
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5	5	5	5
	Max	m	15	15	20	15	15	15	20
Piping Height	Max	m	7	8	8	7	8	8	8
Refrigerant		G	680	880	1350	470	870	1050	1450
Add Refrigerant		g/m	20	50	40	-	20	50	40
Features									
MPI									
Good'sleep II			●	●	●	●	●	●	●
Silver Nano Health System	Silver Coated Filter		●	●	●	●	●	●	●
	Silver Coated Evaporator		●	●	●	●	●	●	●
Pure & Clean Air	DNA Filter						●	●	●
	Pure Filter (HAF Filter)						●	●	●
	Catechin Filter		●	●	●	●	●	●	●
	Deodorizing Filter		●	●	●	●	●	●	●
Operating Mode	Digital I Plus		●	●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●	●
	Turbo Mode		●	●	●	●	●	●	●
	Timer		●	●	●	●	●	●	●
	Energy Saving Mode		●	●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●	●
	Auto Changeover						●	●	●
Convenience	Auto Wind		●	●	●	●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille						●	●	●
	Remote Controller		●	●	●	●	●	●	●
Etc.	Auto Clean (self cleaning)								●
	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C							
	Heating	°C							

Specifications of the real product can be different from the above.



# Forte

# Memo

			CO	CO	CO	CO
			R22	R22	R22	R22
Refrigerant Type						
Power Source	V/Hz/φ		220/60/1	220/60/1	220/60/1	220/60/1
Model Code			AS09SA	AS12FC	AS18FE	AS24FC
<b>Performance</b>						
Capacity	Cooling	Btu/hr.	9,000	12,000	18,000	24,000
		Cal/hr.	2,268	3,024		5,847
		kW	2.50	3.52	5.1/3.85	6.8
	Heating	Btu/hr.	-	-	-	-
		Cal/hr.	-	-	-	-
		kW	-	-	-	-
Energy Efficiency	Cooling	EER (Btu/W)	9.68	10.00	9.47	9.23
		EER (W/W)	2.69	2.63	2.68	2.62
	Heating	COP (W/W)	-	-	3.26	-
Moisture Removal		ℓ /hr.	1.0	1.5	1.8	2.7
	Air Circulation (Max)	m³/min	7.0	9.4	13.0	17
Noise Level	Indoor High/Low	dB	32/29/24	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	46	47	52	55
<b>Electrical Data</b>						
Power Consumption	Cooling	W	930	1340	1900/2250	2600
	Heating	W	-	-	-	-
Operating Current	Cooling	A	4.2	6.2	8.8/10.1	12
	Heating	A	-	-	-	12
<b>Dimension &amp; Loading Q'ty</b>						
Net Dimension (WxHxD)	Indoor	mm	728x255x185	825x285x189	825x285x189	1065x298x218
	Outdoor	mm	660x470x240	660x470x240	790x548x285	790x548x285
Net Weight	Indoor	kg	6.8	8.4	8.4	13.0
	Outdoor	kg	26.0	26	39.0	41.0
Shipping Weight	Indoor	kg	8.6	10.6	10.6	16.0
	Outdoor	kg	27.5	27.5	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	128/276/304	116/240/273	91/193/216	82/170/197
	W/O Pipe	20/40ft/Jumbo	142/299/336	136/280/303	101/209/233	82/170/197
<b>Technical Information</b>						
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ9.52mmx5m	Φ12.7mmx5m	Φ12.7mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	15	20
Piping Height	Max	m	7	7	8	8
Refrigerant		G	430	670	1000	1300
Add Refrigerant		g/m	-	20	30	40
<b>Features</b>						
MPI						
Good'sleep II						
Silver Nano Health System	Silver Coated Filter		●	●	●	●
	Silver Coated Evaporator		●	●	●	●
Pure & Clean Air	DNA Filter					
	Pure Filter (HAF Filter)			●	●	●
	Catechin Filter			●	●	●
Deodorizing Filter				●	●	●
Operating Mode	Digital I Plus		●	●	●	●
	Dehumidification		●	●	●	●
	Turbo Mode		●	●	●	●
	Timer		●	●	●	●
	Energy Saving Mode		●	●	●	●
	Auto Restart		●	●	●	●
Auto Changeover						
Convenience	Auto Wind		●	●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille					
	Remote Controller		●	●	●	●
Auto Clean (self cleaning)			●	●	●	●
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C				
	Heating	°C				

			HP	HP	HP
			R22	R22	R22
			220/60/1	220/60/1	220/60/1
			AQ12FC	AQ18FE	AQ24FC
<b>Performance</b>					
Capacity	Cooling	Btu/hr.	12,000	18,000	24,000
		Cal/hr.	3,024	4,536	5,847
		kW	3.52	5.10	6.8
	Heating	Btu/hr.	13,000	20,000	24,000
		Cal/hr.	3,276	5,040	6,019
		kW	3.81	5.60	7.00
Energy Efficiency	Cooling	EER (Btu/W)	8.45	9.47	9.23
		EER (W/W)	2.48	2.86	2.62
	Heating	COP (W/W)	3.10	3.26	2.64
Moisture Removal		ℓ /hr.	1.5	1.8	2.7
	Air Circulation (Max)	m³/min	9.55	13.0	17
Noise Level	Indoor High/Low	dB	36/31/26	40/36/32	42/39/35
	Outdoor High	dB	47	52	55
<b>Electrical Data</b>					
Power Consumption	Cooling	W	1420	1900/2250	2600
	Heating	W	1230	1800	6500
Operating Current	Cooling	A	6.6	8.8/10.1	12
	Heating	A	5.7	8.2	12
<b>Dimension &amp; Loading Q'ty</b>					
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	1065x298x218
	Outdoor	mm	660x495x240	790x548x285	790x548x285
Net Weight	Indoor	kg	8.4	8.4	13.0
	Outdoor	kg	28	39.0	41.0
Shipping Weight	Indoor	kg	10.6	10.6	16.0
	Outdoor	kg	30	43.0	45.0
Loading Q'ty	W Pipe	20/40ft/Jumbo	116/240/268	91/193/216	82/170/197
	W/O Pipe	20/40ft/Jumbo	126/262/294	101/209/233	82/170/197
<b>Technical Information</b>					
SVC Valve	Liquid	ODxL	Φ6.35mmx5m	Φ6.35mmx5m	Φ6.35mmx5m
	Gas	ODxL	Φ12.7mmx5m	Φ15.8mmx5m	Φ15.8mmx5m
Piping Length	STD	m	5	5	5
	Max	m	15	15	20
Piping Height	Max	m	7	8	8
Refrigerant		G	770	-	1420
Add Refrigerant		g/m	20	-	40
<b>Features</b>					
MPI					
Good'sleep II					
Silver Nano Health System	Silver Coated Filter		●	●	●
	Silver Coated Evaporator		●	●	●
Pure & Clean Air	DNA Filter				
	Pure Filter (HAF Filter)			●	●
	Catechin Filter			●	●
Deodorizing Filter				●	●
Operating Mode	Digital I Plus		●	●	●
	Dehumidification		●	●	●
	Turbo Mode		●	●	●
	Timer		●	●	●
	Energy Saving Mode		●	●	●
	Auto Restart		●	●	●
Auto Changeover					
Convenience	Auto Wind		●	●	●
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL
	Auto Grille				
	Remote Controller		●	●	●
Auto Clean (self cleaning)			●	●	●
Etc.	Compressor Type		ROTARY	ROTARY	ROTARY
Low Ambient	Cooling	°C			
	Heating	°C			

Specifications of the real product can be different from the above.