

Samsung Air Conditioners
Full Line Catalog



life. enhanced.



SAMSUNG



QUIETSIDe.com

Product Line Up



Vivace



Available Capacities:
12K/18K/24K BTU

Features:
MPI - Micro Plasma Ion
Smart Inverter
Good Sleep Mode

ETL/AHRI Certified

Neo Forte



Available Capacities:
9K/12K/18K/24K BTU

Features:
Smart Inverter
Good Sleep Mode

ETL/AHRI Certified

Classic 36K

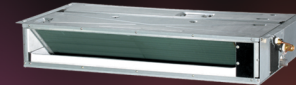


Available Capacities:
36K BTU

Features:
Smart Inverter

ETL/AHRI Certified

Slim Duct



Available Capacities:
12K/18K/24K BTU

Features:
Smart Inverter

ETL/AHRI Certified

MSP Duct



Available Capacities:
36K/48K BTU

Features:
Smart Inverter

ETL/AHRI Certified

4-Way Cassette



Available Capacities:
24K/36K/48K BTU

Features:
Smart Inverter

ETL/AHRI Certified

Floor Standing



Available Capacities:
48K BTU

Features:
Smart Inverter

ETL/AHRI Certified

Free Joint Multi-Zone



Available Capacities:
24K/36K BTU

Features:
Smart Inverter
Good Sleep Mode (Neo Forte Only)

ETL/AHRI Certified

Free Joint Multi-Outdoor Units



24k/36k BTU
ETL/AHRI



vivace

Available Models

- AQV12VBE - 12,000 BTU
- AQV18VBE - 18,000 BTU
- AQV24VBE - 24,000 BTU



Style. Sophistication. Elegance. Functionality.

With its wide array of features, the Vivace helps you breathe fresh air while enhancing the design and decor of your home.



The many technologies that embody the vivace



Micro Plasma Ion Zone & the **virusDoctor**

Improves the indoor air quality of your room by eliminating biological contaminants that threaten the health of you and your family. Viruses, bacteria, molds and allergy causing agents don't stand a chance against the MPI Zone and the Virus Doctor.

Creating a Purified Atmosphere
The MPI system eliminates toxins that normal filters can't trap, keeping you and your family healthy.

Protection Against Disease
By eliminating biological contaminants, you and your family are protected from toxins that cause sickness and disease.

For Children and the Elderly
More sensitive to viruses, children and the elderly require more protection, which the MPI system provides.

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.

Safe from Allergy-Causing Agents
Be worry-free from allergy-causing agents. The MPI system makes your home an allergy-free haven, even if you have pets.

The Virus Doctor removes the following from your room with the Vivace:

- Airborne Bacterial and Viruses:** Causes various diseases such as influenza, chicken pox, and SARS
- Airborne Dust:** Causes asthma, headaches and bronchitis
- Allergen Agents:** Causes diverse allergies
- Molds:** Nurtures and spreads harmful viruses and ticks
- Bacteria:** Causes a variety of diseases and symptoms
- Ticks:** Causes skin irritations and respiratory problems
- Active Oxygens:** Speeds up the aging process

How Does Virus Doctor Work?

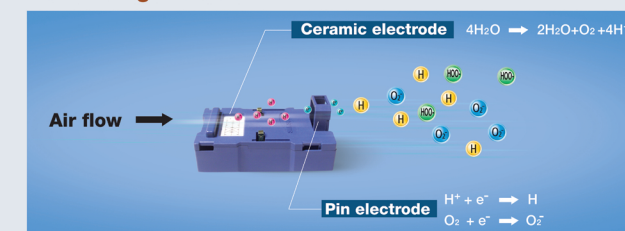
Effective sterilization

Virus Doctor generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen. The process of eliminating the harmful substances is completely harmless to human body and Virus Doctor improves air quality.

How are H and O₂⁻ Created?

- **Ceramic electrode (+ electrode)** : Micro plasma discharger splits water molecules in the air and forms positively charged active hydrogen (H⁺).
- **Pin electrode (- electrode)** : High-voltage electric discharger emits electrons which react with H⁺ and O₂ to form active hydrogen (H) and oxygen ion (O₂⁻).
- **Newly generated active hydrogen (H) and the oxygen ions (O₂⁻) forms hydroperoxy radical (HOO[•]).**

H and O₂⁻ generation

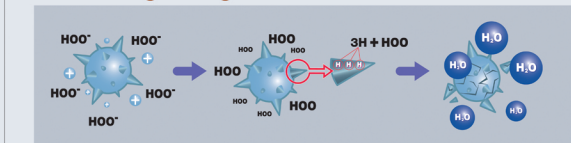


Micro Plasma Ion

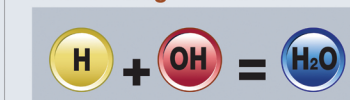
How does Virus Doctor eliminate harmful air contaminants?

Active hydrogen atom and oxygen ion form Hydroperoxy radicals (HOO[•]) which surround the positively charged biological contaminants, and then react with three hydrogen elements of its protein structure, forming water vapor. Also, the active hydrogen (H) combines with OH-radical to form a water vapor, neutralizing harmful OH-radical.

Eliminating biological contaminants



Neutralizing OH-radical



The many technologies that embody the vivace - continued



Good Sleep Mode II

Helps you fall asleep comfortably. How many times has this happened to you? You sleep with the air conditioner turned off and it gets too hot. You sleep with it turned on, it gets too cold. How do you stay comfortable? With Samsung's Good Sleep II, the room temperature automatically adjusts to your body temperature so you remain comfortable during your sleep. It can even save you up to 36% in energy costs.

Best Temperature for Deep Sleep

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

Stage 1 - Falling Asleep

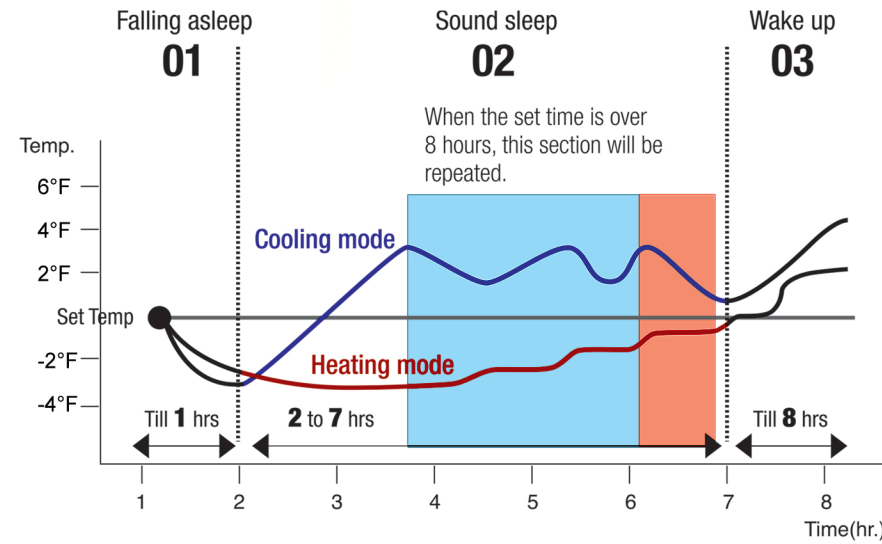
Eases you into sleep by dropping the temperature.

Stage 2 - Sound Sleep

Relaxes your body and raises your temperature slightly.

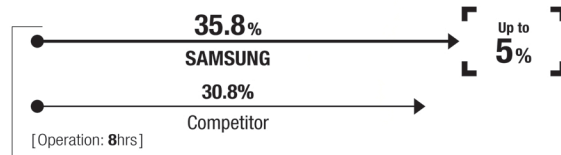
Stage 3 - Wake Up

Allows you to wake up with comfortable intermittent air and lets your wake up refreshed.



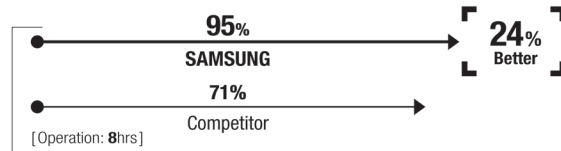
Sleep Efficiency

Good Sleep 2 increases sleep efficiency compared with other competitors.



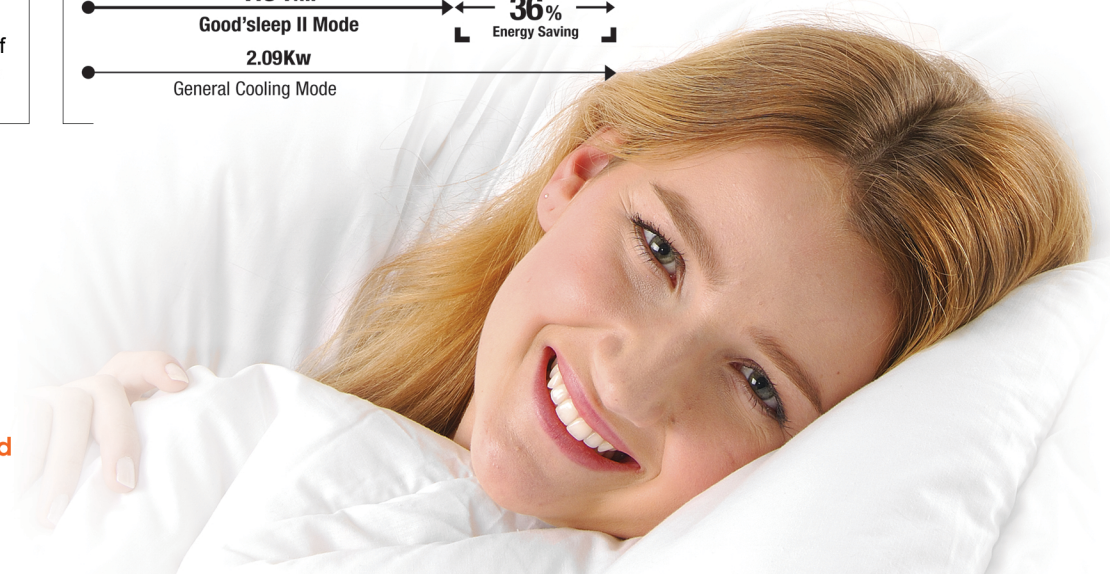
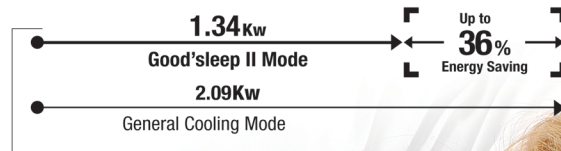
Pleasant Skin Temperature

Good Sleep 2 keeps your skin comfortable throughout the night with precise temperature control.



Energy Savings

Good Sleep 2 reduced up to 30% of energy consumption compared to a system with normal cooling mode.



Health Care System

Samsung's Multi-Step Air Purifying Health Care System removes virtually all elements that are harmful to people by using various filters. At the same time, the system also keeps the interior of the air conditioner ultra-clean, so only ultra-fresh air is produced.

MULTI-STEP AIR PURIFYING SYSTEM

Step 1 - Silver Coated Filter
The silver coating applied to the filter, serves to trap and removes dust particles.

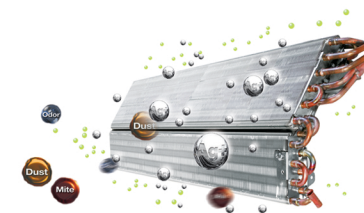
Step 2 - Silver Nano Evaporator
The fins of the evaporator are triple coated to ensure efficient removal of condensation.

Step 3 - Deodorizing Filter
Activated carbon is incorporated into the filter, efficiently absorbing all odors.

Step 4 - Catechin Filter
Catechin is contained in the filter and deactivates captured bacteria. Also helps control the cause of odors associated with bacterial growth.

Step 5 - Anti-Bacterial Cross Fan
Molded with an antibacterial formula to suppress the proliferation of molds and bacteria. Also helps in eliminating odors associated with bacterial growth.

Step 6 - MPI Generator
MPI improves your indoor air quality by eliminating biological contaminants such as viruses, bacteria, and allergy-causing agents that threaten your health.



Silver Nano Evaporator

Samsung's silver coated evaporator incorporates an innovative material found to be environmentally friendly. The fins of the evaporator are triple coated (2 layers of chrome-free neo silica, 1 layer of Silver Coating) to ensure the efficient removal of condensation and to guarantee the production of clean, fresh air.



Auto-Clean

Does your air conditioner ever blow out smelly air? Bacteria and mildew often grow in air conditioners, which cause an unpleasant odor in the air. How can you keep your air conditioner clean and working like new? The answer lies in Samsung's Auto-Clean function. When the air conditioner is off, it stays clean by continuing to dry internally, which protects against bacteria and mildew growth.

Silver Coated Filter

Dust particles are trapped and removed as a result of the silver nano coating of the Silver Nano Filter. Not only does the filter remove microscopic dust particles, it also exterminates fungi and eliminates unpleasant odors.

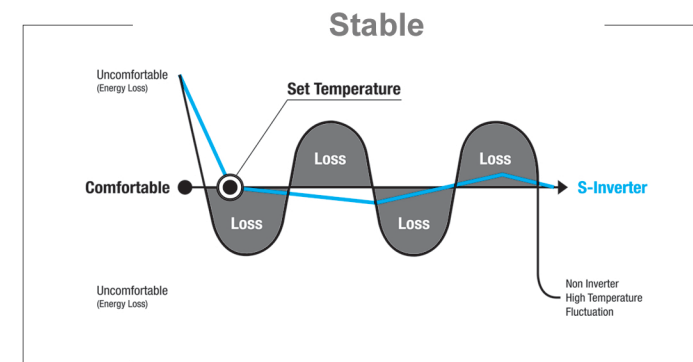
S-INVERTER

Saving has never been easier with Samsung's Smart Inverter system.



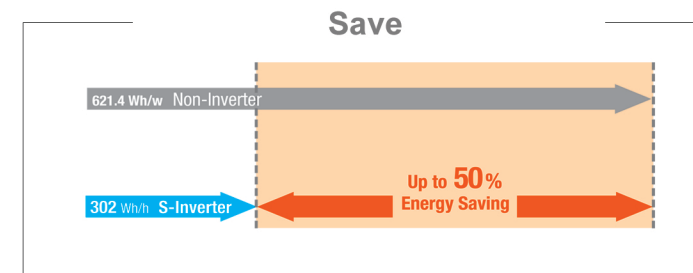
Smart Inverter

When reducing energy costs with an air conditioner, an inverter is a must. Samsung's S-Inverter technology lowers energy consumption by up to 50% compared to a conventional air conditioner. The inverter technology allows you to reach the desired temperature faster so there's less fluctuation and less motor run-time, which translates to a quieter system and less wasted energy.



Comfortable Temperature

Samsung's Vivace air conditioner works at maximum capacity on start-up. As soon as the desired temperature is reached, it adjusts to cope with any changes. This means less temperature fluctuations and assures you greater comfort, which can be achieved in minutes.



Up to 50% Energy Savings

After reaching the set temperature, the Vivace changes its operation mode to 'economic'. By avoiding inefficient and frequent switching on and off of the compressor, the Vivace saves up to 50% in energy consumption, compared to a non inverter air conditioner, saving energy and money.



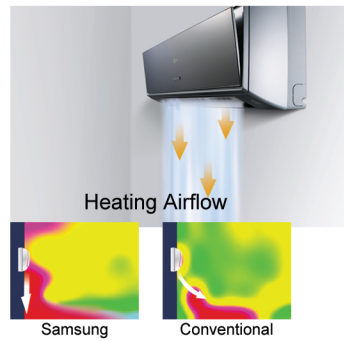
Silence is Golden

Enjoy the silent operation of your Vivace air conditioner. The compressor works at a low speed to maintain the temperature resulting in a quieter motor and minimal fan noise for greater comfort and peace of mind.

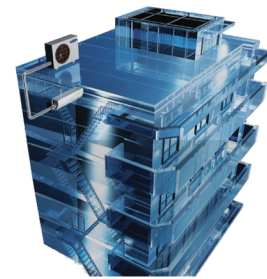


additional features of the vivace

applications for the vivace



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



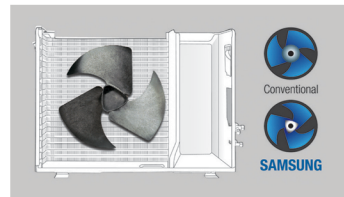
Line Set Length
The line set length can be extended to 98 feet in length and up to 49 feet in height (18,000 to 24,000 Btu/h) or 49 feet in length and 26 feet in height (12,000 Btu/h). This means greater flexibility in the choice of location for the outdoor unit.



Auto Changeover
The Auto Changeover option 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.



Improved Low Temperature Operation
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. Also, N.G.S. (Neo Green Silica) coating is applied to the heat exchanger which improves the operating efficiency in low temperatures. An automatic defrosting algorithm developed specifically for cold countries allows continuous heating operation with ambient temperatures below 32 DegF.



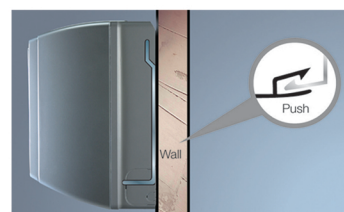
Energy-Efficient and Quiet Fan
In the outdoor unit, the new propeller fan has better performance characteristics due to its triangular hub shape, resulting in enhanced energy efficiency and fan capacity, greater heat resistance, and quieter operation.



Easy Handle for Transporting or Handling
The lightweight and compact outdoor unit is equipped with a handle for convenience during handling and unloading. Because the outdoor unit can be carried with ease, installation is quick and simple.



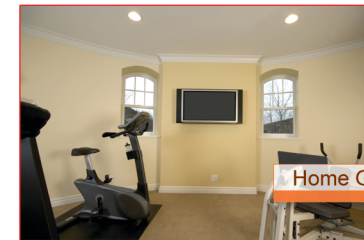
Water Leakage Double Protection
Samsung, for the first time, has adopted a double water leakage protection system. The tray drain at the bottom of the unit has been deepened by 3/16 in. The drainage channel on the front panel prevents walls and carpets from being saturated by the dripping water.



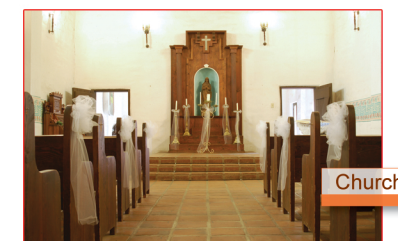
1-Touch Hanger Plate
The indoor unit and the installation plate can be removed easily just by pressing the lower part of the indoor unit.

The Vivace is perfect for:

Residential



Commercial



... and much more!

neo forte

Available Models

- AQV09NSD - 9,000 BTU
- AQV12NSD - 12,000 BTU
- AQV18NSD - 18,000 BTU
- AQV24NSD - 24,000 BTU



Exudes Simplicity.

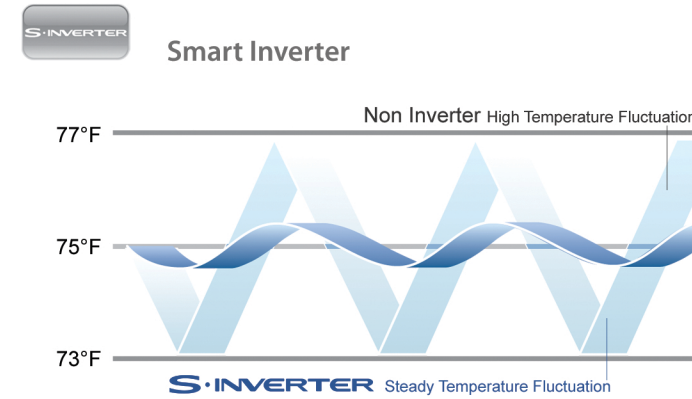
The Neo Forte's clean looks blend into any room while functioning as an exceptional air conditioner. With its innovative features, the Neo Forte makes a great addition to any room.



SAMSUNG life. enhanced

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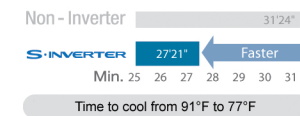
The **innovations** behind the neo forte



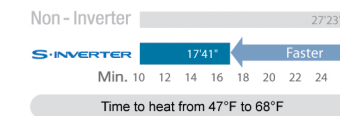
The Perfect Temperature

When the Neo Forte is first turned on, the system goes to maximum capacity to reach the set temperature. Once the desired temperature is reached, the system adjusts to offset any changes (more people in the room, less people in the room, windows open or closed). What this means is there will be less temperature fluctuation which translates to more comfort for you.

Cooling 15% Faster

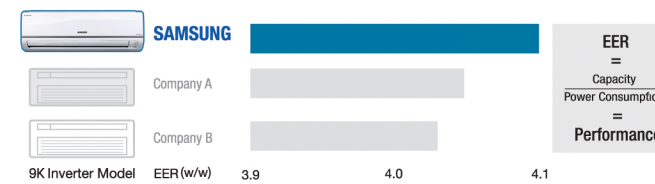


Heating 50% Faster



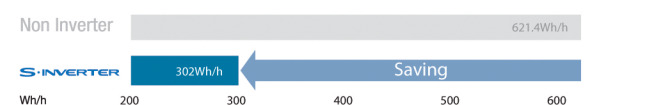
Changing the Temperature

Let's say you want to lower the temperature because you have a lot of visitors and it's starting to get very warm. The instant you change the temperature setting, the Neo Forte goes maximum capacity and gets to the new desired temperature quickly.



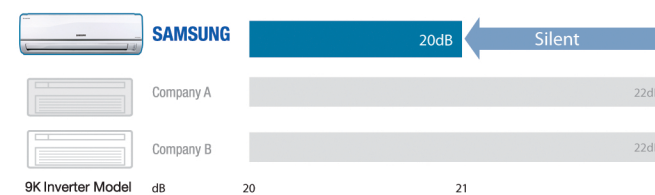
Extremely Efficient

The Neo Forte's S-Inverter technology ensures you receive extreme power and eye-blinking speed - while using the least amount of energy possible. This means the Neo Forte works hard while being extremely efficient, saving you your hard-earned money.



More Savings

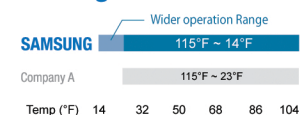
You reached the perfect temperature. Now what? The Neo Forte goes into "economic" mode. This means, the S-Inverter avoids the usual "frequent switching on and off" of the compressor. By not having to always switch on and off, the S-Inverter can save you up to 50% in energy costs compared to a non-inverter system.



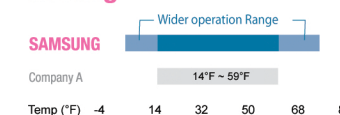
Very Quiet

The Neo Forte's compressor operates at the lowest speed possible when maintaining your desired set temperature. This means very low noise levels from the fan motor and compressor.

Cooling



Heating



Wide Temperature Range

The Neo Forte can cover a wide range of operating ambient temperatures. This unit will operate in temperatures from 115°F to 5°F. That's a range of a 100°F!



The innovations behind the neo forte - continued

neo forte



Health Care System

The Neo Forte is well-equipped to provide fresh, clean and healthy air for you and your family. Need to get rid of odors? Bacteria? Viruses? No problem. The Neo Forte can help eliminate many of these impurities from the air, all with the latest in technology and innovative breakthroughs in air conditioning.

Multi-Step Air Purifying System

- 1 Silver-Coated Filter**
 Silver has been widely recognized for its antibacterial and sanitization effects. Samsung has coated the Neo Forte's filter with silver to prevent the proliferation of bacteria and viruses that can live in filters. The air is always clean with the Neo Forte.
- 2 Silver Nano Evaporator**
 - The new H-Fin technology enhances the ability to remove bacteria
 - The heat exchanging function has been improved
 - This technology was applied to all evaporators beginning in 2005
- 3 Catechin Filter**
 Catechin, which is extracted from green tea, is contained in this filter and deactivates captured bacteria and unpleasant odors.
- 4 Deodorizing Filter**
 Incorporated with activated carbon, the Deodorizing Filter in the Neo Forte efficiently absorbs cigarette smoke, pet odors and other unpleasant smells.



Good Sleep Mode II



Uninterrupted Sleep. . .

The Neo Forte can help you get a great night's sleep. Everyone's experienced this before: While you're sleeping, it gets too cold. A little later, it gets too hot and now you're tossing and turning. You just wasted precious hours trying to get comfortable. Now, imagine if all those wasted hours were used for sleeping. How much more refreshed and energized would you feel when you woke up? That's right, you'd feel like a million bucks. The Neo Forte can help you achieve the perfect sleep with the Good Sleep Mode feature.

Streamlined Design that Blends into Your Room

Silver Accent Line
The silver lining against the pure white base provides an elegant contrast for a simple design that looks great with any interior.

Bottom-Opening Front Panel
Simply lift the front panel to open the cover of the air conditioner. Like the hood of a car, the cover lifts up for easy access to the filters.

Flush Front Panel
The flush front panel was achieved by moving the front grille to the top of the air conditioner. This also allows for easy cleaning.

Applications for the Neo Forte

<p>Residential</p> <ul style="list-style-type: none"> Master Bedroom Media Room/Home Theater Game Room Bonus Room Home Gym Garage Basement Sunroom Home Office 	<p>Commercial</p> <ul style="list-style-type: none"> Offices/Conference Room Reception Area Bars/Restaurants/Cafe Church School Classroom Server/Data Room Retail Shop Doctor's/Dentist's Office
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And many more . . .

classic

Available Models
AQV36JA - 36,000 BTU



Powerful, yet Efficient.

When the need for a powerful, yet efficient air conditioner is needed, the 36,000 BTU Classic Mini-Split is the perfect choice.



the features of the 36k classic



Health Care System

Multi-Step Air Purifying System

Step 1 - Silver Coated Filter

The silver coating applied to the filter, serves to trap and removes dust particles.

Step 2 - Silver Nano Evaporator

The fins of the evaporator are triple coated to ensure efficient removal of condensation.

Step 3 - Deodorizing Filter

Activated carbon is incorporated into the filter, efficiently absorbing all odors.

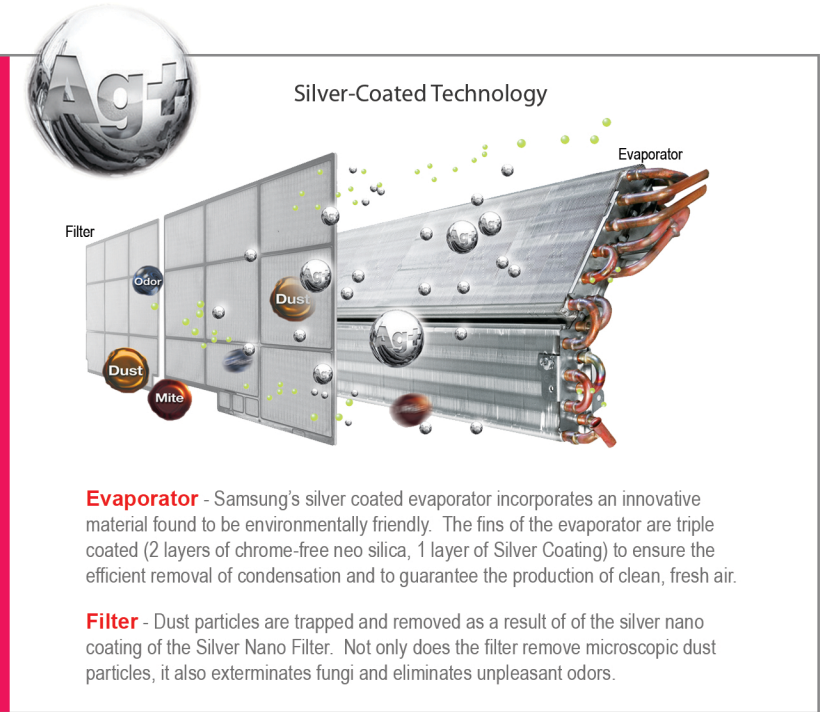
Step 4 - Catechin Filter

Catechin is contained in the filter and deactivates captured bacteria. Also helps control the cause of odors associated with bacterial growth.

Step 5 - Anti-Bacterial Cross Fan

Molded with an antibacterial formula to suppress the proliferation of molds and bacteria. Also helps in eliminating odors associated with bacterial growth.

MPI Zone / Virus Doctor not available for this system

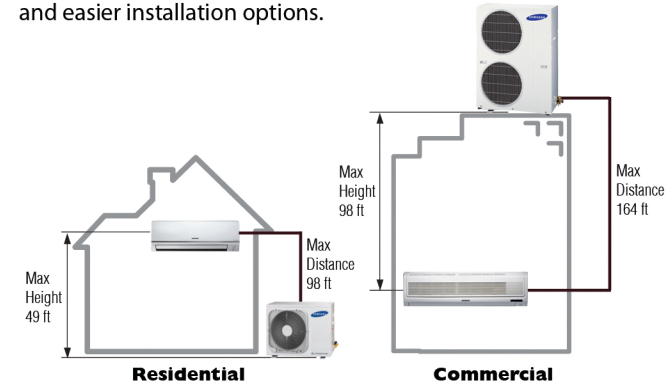


Evaporator - Samsung's silver coated evaporator incorporates an innovative material found to be environmentally friendly. The fins of the evaporator are triple coated (2 layers of chrome-free neo silica, 1 layer of Silver Coating) to ensure the efficient removal of condensation and to guarantee the production of clean, fresh air.

Filter - Dust particles are trapped and removed as a result of the silver nano coating of the Silver Nano Filter. Not only does the filter remove microscopic dust particles, it also exterminates fungi and eliminates unpleasant odors.

Long Piping Distance and Height

The 36K Classic air conditioner can support a longer piping distance and height limit, when compared to residential type air conditioners, providing flexibility and easier installation options.



Wide Temperature Operation Range

The 36K Classic air conditioner has a wide operation range, allowing it to even operate in ambient temperatures as low as 5°F.

Cooling (5.2, 7.0kW)		Heating (5.2, 7.0kW)	
	Wider operation Ranges		Wider operation Range
Commercial	5°F - 109°F	Commercial	-4°F - 75°F
Residential	23°F - 109°F	Residential	5°F - 75°F

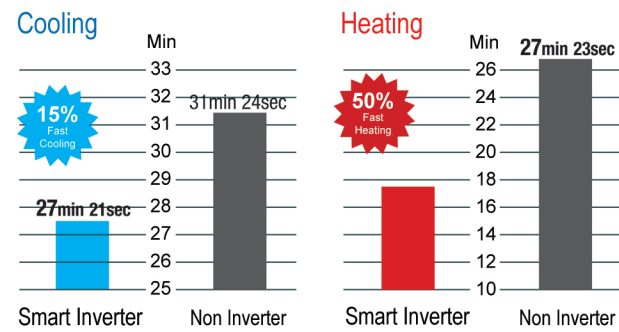
The features of the 36k classic - continued



Smart Inverter

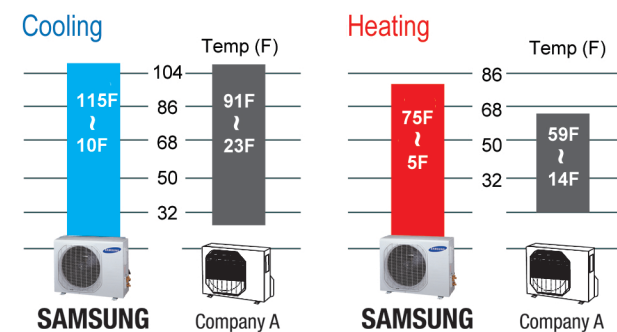
With the Smart Inverter feature, the 36K Classic not only conserves energy and saves you money, it also performs with power and reliability.

Powerful and Reliable Performance



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 115°F or heat in the freezing cold of 5°F to provide comfort all year long.

Additional Features

- Waterfall Heating Air Flow
- Auto Changeover
- Energy Efficient and Quiet Fan
- Improved Low Temperature Operation
- Outdoor Installation Pipe
- One-Touch Hanger Plate
- Easy Handle for Transporting or Handling
- Water Leakage Double Protection
- Dehumidification (Dry) Mode
- Turbo Mode
- Timer
- Auto Restart
- Auto Wind

Applications . . .

- Residential**
 - Home Gym
 - Garage
- Commercial**
 - Offices / Conference Room
 - Reception Area
 - Bars / Restaurant / Cafe
 - Church
 - School Classroom
 - Server / Data Room
 - Retail Shop
 - Doctor's/Dentist's Office

ducted

Available Models

Slim Duct	MSP Duct
EH035CAV - 12,000 BTU	DH105CAV - 36,000 BTU
EH052CAV - 18,000 BTU	DH140CAV - 48,000 BTU
EH070CAV - 24,000 BTU	



Flexible Performance.

These ducted mini split systems offer flexible installation with its slim and compact size. The indoor units can be located to best suit the installation and the supply and return registers can be placed to satisfy any room layout.



The features of the ducted systems



Smart Inverter

Samsung's Ducted series air conditioners are equipped with Samsung's Smart Inverter technology which is a combination of cutting-edge technology with exceptional performance characteristics. Fast and powerful cooling and heating are achieved with minimum power consumption. As a result, your electric bills are greatly reduced compared to other conventional systems while the extraordinary comfort that you've come to expect from Samsung is maintained. Smart Inverter air conditioners from Samsung are the perfect choice for those who appreciate high performance and energy conservation.

Smart Pressure Control

The Smart Pressure Control system adjusts the fan speeds according to the external pressure so the air conditioner always gives you consistent cooling and heating, regardless of the surrounding environment.

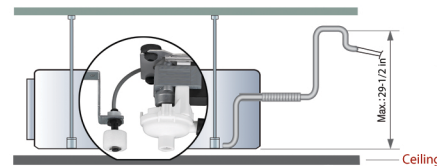
Versatility

These Ducted systems are more versatile than Cassette Mini Splits as they allow the location of the indoor unit to be selected to best suit the installation, and the location of the supply and return registers can be chosen to suit the room layout, providing an enhanced comfort level and preventing short cycling of the system.

Slim Design (Slim Duct)

At only 7-7/8 inches thick, this slim design of the slim duct makes installation, maintenance and repair simple and worry-free.

High Head Drain Pump (Optional for both Slim and MSP)



This drain pump lifts condensate up to 29-1/2 inches, allowing for flexible and simple installation.

Easy Maintenance

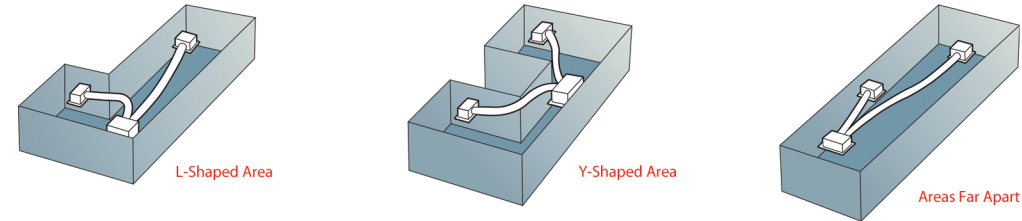
Both systems are built with easily accessible parts for worry-free maintenance.

Low Noise Levels

Units are designed to minimize noise levels for both indoor and outdoor units.

ducted

Flexible Installation (MSP)



Rooms are shaped differently. Samsung's MSP knows this and offers different solutions for any shaped room, allowing it to satisfy specific airflow requirements.

Narrow Width

All duct-type indoor units are sized to fit above a standard ceiling tile.

Slim Duct and MSP Applications

WHERE CAN YOU USE THE MSP AND SLIM DUCT SYSTEMS?

MSP

Residential

Whole House System

Commercial

- Office / Conference Room
- Reception Area
- Bars / Restaurant / Cafe
- Church
- School Classroom
- Server / Data Room
- Retail Shop
- Extended Stay Facility
- Hotel
- Dormitory
- Doctor's/Dentist's Office

And many more...

Slim Duct

Residential

- Master Bedroom
- Media Room
- Home Theater
- Game Room
- Bonus Room (FROG's)
- Home Gym
- Garage

Commercial

- Office / Conference Room
- Reception Area
- Bars / Restaurant / Cafe
- Church
- School Classroom
- Server / Data Room
- Retail Shop
- Extended Stay Facility
- Hotel
- Doctor's/Dentist's Office

4-way cassette

Available Models

- CH070CAV1 - 24,000 BTU
- CH105CAV - 36,000 BTU
- CH140CAV - 48,000 BTU



4-way cassette features and benefits



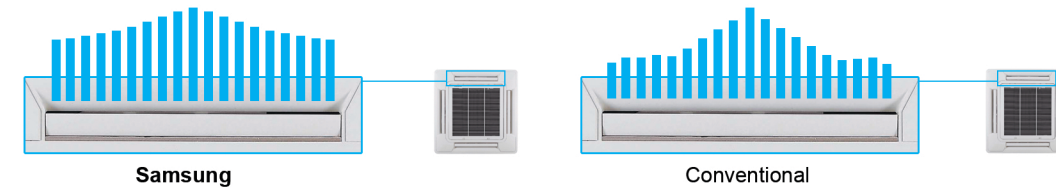
Smart Inverter

- High Efficiency
- Fast Heating and Cooling
- Virtually Silent Operation
- Wide Temperature Performance Range
- Up to 50% in Energy Savings vs. Non-Inverter



Efficient Cooling

Samsung has applied a 3-dimensional blade, which has a worldwide patent, to provide equal speed to the cool air and boost up the airflow to spread further and wider to cover all the corners of the space being cooled. With this newly-designed blade, every bit of space will be filled with cool, refreshing air.



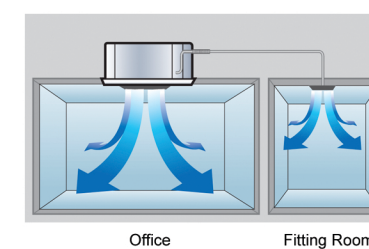
Compact Size

The 4-Way Cassette has gotten even slimmer. Now as thin as 8-3/4 inches, it's still the industry leader in compactness and is even easier to install in tight spaces (36K and 48K BTU units are 11-3/4 inches thick).



Sub Duct

The sub duct lets you use the same air conditioner unit to cool another smaller space nearby (the cassette unit is fitted with a knock-out component to accommodate this).



Quick Connection of Drain Pipe

Samsung's unique drain pipe prevents leaks and is easier to install with no need to use tape or messy adhesives.



Seamless Integration

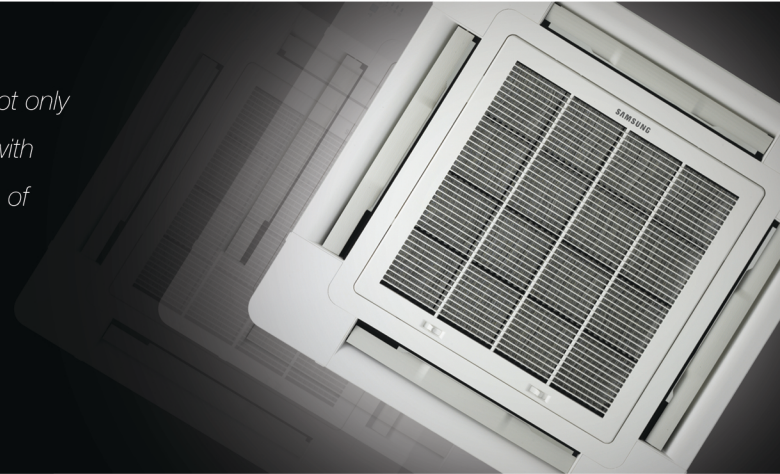
Samsung's 4-Way Cassette system seamlessly integrates into any environment. It can also provide up to 48,000 BTU's of capacity, both efficiently and quietly.



4-way cassette **features** and benefits - continued

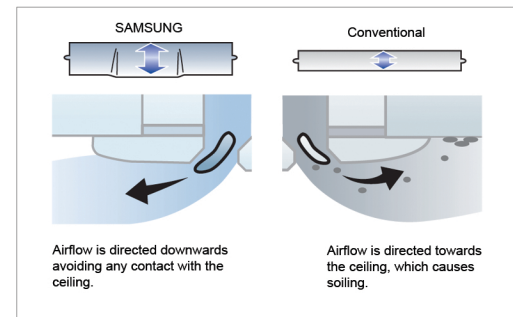
Stylish Panel

The stylish design of the panel is not only extremely functional and effective with air distribution, it also adds a touch of modern class to its surroundings.

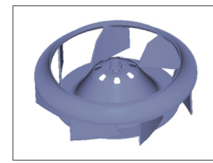


Ceiling Soiling Prevention

The newly-designed panel will control the airflow direction to avoid contact with the ceiling. This will prevent the ceiling from becoming soiled and will ensure cleanliness for a long time after installation



Turbo Fan



Quiet Operation

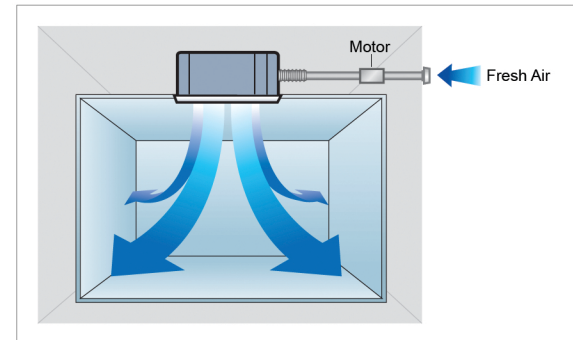
The aerodynamically designed "Turbo Fan" minimizes noise from the blade movement. Thus, even the highest fan speed produces virtually no noise.

Uniform Distribution

Is one area of the room freezing, while another area is hot? The new "Turbo Fan" has wide blades that provide extreme cooling power from four separate outlets so the entire room gets cooler, faster.

Fresh Air Intake

Fresh air can be introduced into the room via the fresh air connection. (Needs ventilation fan)



Applications


- Offices/Conference Room
- Reception Area
- Bars/Restaurant/Cafe
- Church
- School Classroom
- Server/Data Room
- Retail Shop
- Extended Stay Facility
- Hotel/Motel
- Dormitory

free joint **multi**
multi-zone air conditioner



Multi-Zone Flexibility.

The Free Joint Multi-Zone system is the ideal system when 2, 3 or 4 zones are needed. Indoor units can be mixed and matched while connected to a single outdoor unit, which is powered by a Smart Inverter compressor.

Total connected capacity range is 18,000 - 36,000 BTU. 



free joint multi **features** and benefits

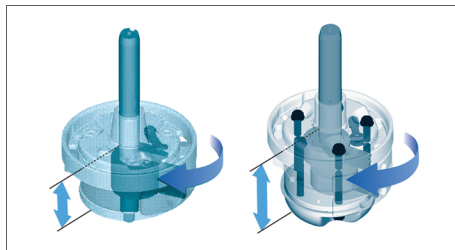
S-INVERTER Smart Inverter

Because of Samsung's Smart Inverter control, efficiency of the outdoor unit is enhanced depending on the number of indoor units and the temperature setting. When only one indoor unit is used, power is saved, resulting in a smaller electricity bill. When all indoor units are used, high-powered operation achieves comfort quickly in all rooms.



TBR Sine-Wave Compressor

New Free Joint Models have applied the twin BLDC compressor with highly stable moving parts, which reduces torque variation by 70% when compared to a conventional BLDC compressor.



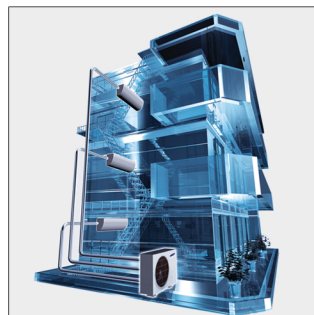
Felt Structure

A new felt structure has been selected for more quiet compressor operation. Double layered felt structures and the felt cover on top of the compressor absorb and minimize the noise.

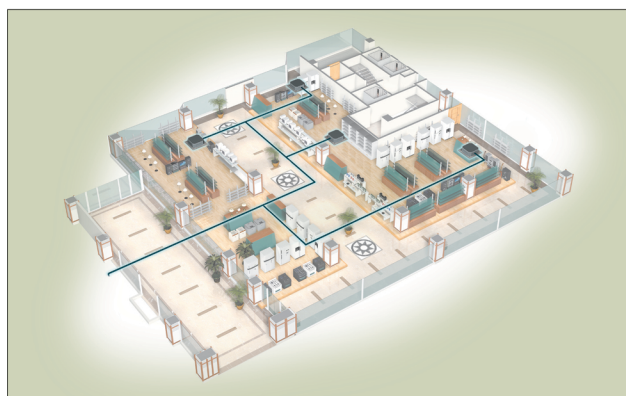


Install Indoor Units on Multiple Floors

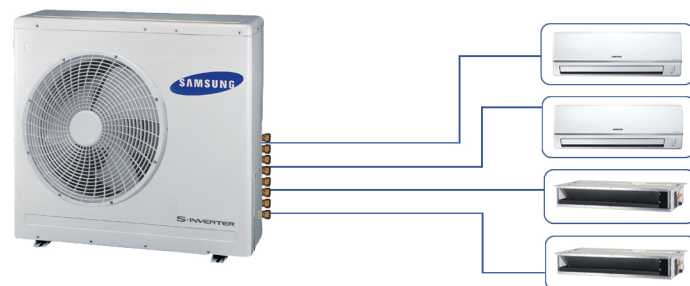
With the Free Joint Multi, the maximum pipe length is 100 feet for two units and a total of 225 feet for four units. The maximum difference in height is 49 feet. Thus, the Free Joint Multi is ideal for 3-story houses and for rooms that are relatively far apart.



One Outdoor Unit - Multiple Indoor Units (up to 4)



You want to air condition multiple rooms without having to waste a lot of space for the condensing units. This is where the Free Joint Multi comes in. The condensing unit is slim, so you don't have to worry about it taking up a lot of space. You can also connect up to 4 indoor units from this single condensing unit, each independently controlled from one another.



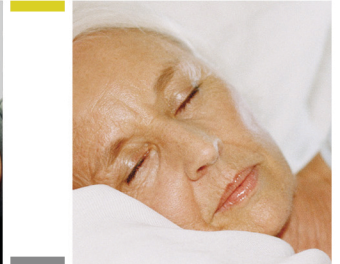
free joint multi indoor units - **neo forte** features



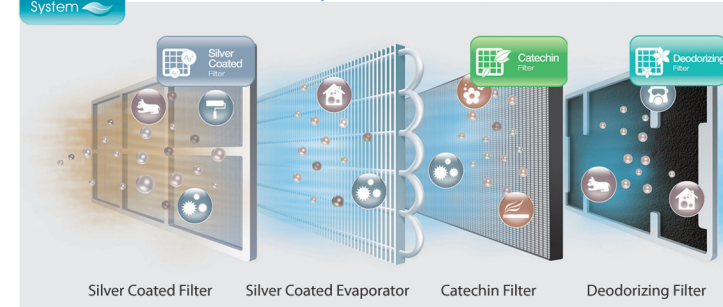
good'sleep Good Sleep Mode II



Enjoy uninterrupted sleep with Good Sleep Mode. The temperature remains comfortable throughout the night while you sleep so you don't wake up. Wake up refreshed and full of energy. This function also saves money by conserving energy.

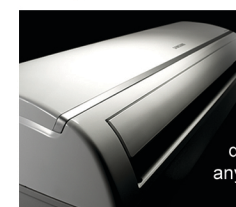


Health Care System Multi-Step Air Purification System



The Health Care System of the Neo Forte consists of several filters that are capable of removing harmful elements from the air you breathe. The Neo Forte also gives you another benefit - it helps eliminate smelly odors from the air, giving you another layer of comfort and protection for you and your family.

Design



Silver Accent Line
The silver lining against the pure white base provides an elegant contrast for a simple design that looks great with any interior.



Flush Front Panel
The flush front panel was achieved by moving the front grille to the top of the air conditioner. This also allows for easy cleaning.



Bottom Opening Front Panel
Simply lift the front panel to open the cover of the air conditioner. Like the hood of a car, the cover lifts up for easy access to the filters.

Additional Features and Benefits:

- ▶ Auto Cleaning (Self-Cleaning)
- ▶ Dehumidification
- ▶ Turbo Mode
- ▶ Timer
- ▶ Energy-Saving Mode
- ▶ Auto Restart
- ▶ Auto Wind

Optional Wired Remote Controller

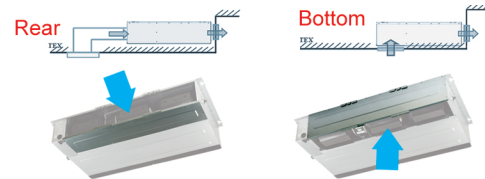


free joint multi indoor units - **slim duct** features



Flexible Installation

The air inlet can be set up on either the bottom or the rear of the unit, allowing for more flexible installation options.



Smart Pressure Control

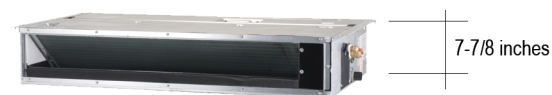
The Smart Pressure Control system adjusts fan speed according to external pressure so the air conditioner always gives you consistent cooling and heating, regardless of the surrounding environment.

Condition Multiple Rooms

The Free Joint Multi Slim Duct system can provide air conditioning to multiple rooms to ensure maximum performance and value.

Slim Design

At only 7-7/8 inches thick, the slim design of this unit makes installation, maintenance and repair simple and worry free.

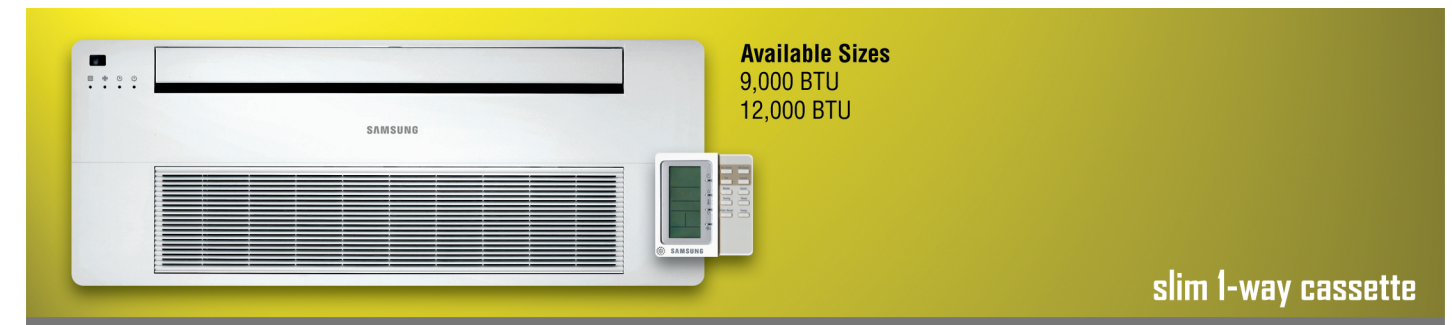


Optional Wireless Remote Control

The Free Joint Multi Slim Duct system can also be controlled by a wireless remote controller (receiver kit - MRK-A00 required).



free joint multi indoor units - **slim 1-way cassette** features



Ceiling Dust Prevention

The panel of the Slim 1-Way Cassette will control air direction to avoid contact with the ceiling. This prevents dust from accumulating on the ceiling after long periods of operation, keeping your interior cleaner than ever.

Quick Drain Pipe Connection

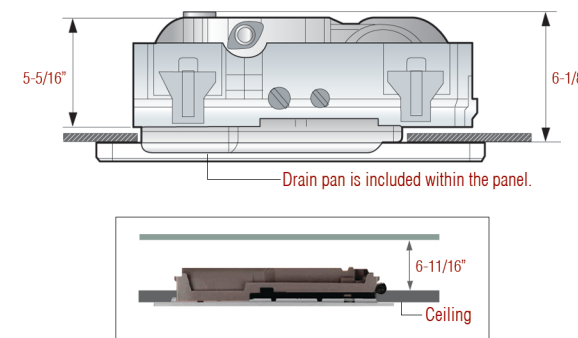
Samsung's unique drain pipe prevents leaks, and is easier to install since tape or adhesives aren't required.

High Lift Drain Pump

The drain pump in the Slim 1-Way Cassette lifts condensate up to approximately 30 inches, allowing for a more flexible and convenient installation.

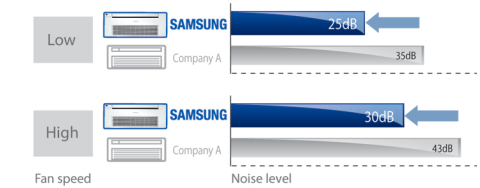
Slim Design

Samsung's Slim 1-Way Cassette is only indoor unit is only 5-5/16" thick and can be installed in ceilings, taking up very little space.



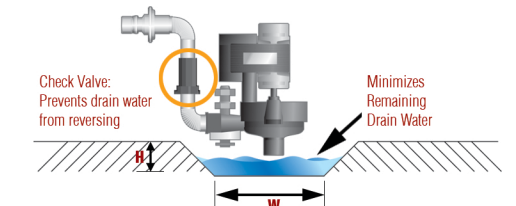
Quiet Operation

Samsung's new blade design drastically reduces noise levels so you can relax in peace and quiet.



No Condensate Overflow

The check valve on the drain pump prevents condensate from flowing back into the drain pan. This minimizes the drain pan's water level so you will never have to worry about water stagnation or condensate overflow.



Lighter Indoor Unit


Samsung was the first to apply ABS cabinets into its indoor units to provide the lightest units on the market. The slim, lightweight design makes installation and maintenance a breeze.

Optional Wireless Remote Control

The Slim-1 Way Cassette system can also be controlled by a wireless remote controller.



free joint multi indoor units - mini 4-way cassette features

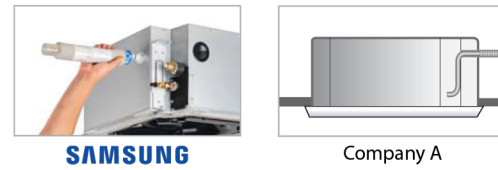


Available Sizes
9,000 BTU
12,000 BTU
18,000 BTU

mini 4-way cassette

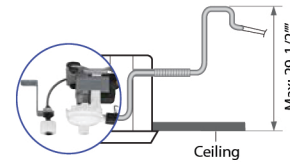
Quick Connection of Drain Pipe

Samsung's unique drain pipe prevents leaks, and is easier to install since tape or adhesives aren't required.



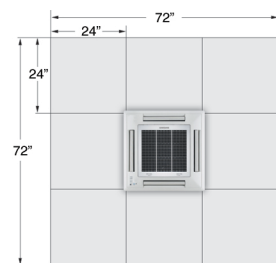
High Lift Drain Pump

The drain pump in the mini 4-way cassette pumps condensate up to 29-1/2" allowing for more flexible and convenient installation.



Ideal Compact Size

The mini 4-way cassette air conditioner can be installed on one standard 24" ceiling tile.



Optional Wireless Remote Control

The FJM Mini 4-Way Cassette can also be controlled by a wireless remote controller.

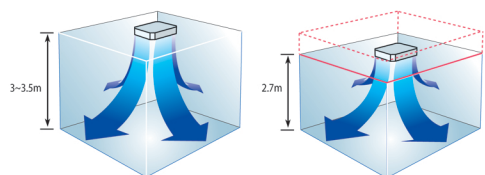


Free Joint Multi Applications

- Residential**
 - Whole House Air Conditioning
- Commercial**
 - Office
 - Bar/Restaurant/Cafe
 - Extended Stay Facility
 - Retail Shop
 - Hotel/Motel
 - Nursing Home

Fan Speed Adjustment

The fan speed can be adjusted according to the ceiling height by adjusting the dip switch of the indoor unit's PCB.



free joint multi - rated matches

Free Joint Multi Indoor Units

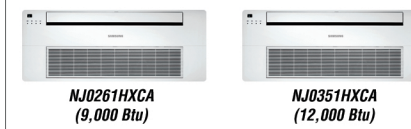
NEO FORTE



SLIM DUCT



SLIM 1-WAY CASSETTE



MINI 4-WAY CASSETTE



Rated Matches for MH050FXCA2A



This condensing unit can be matched with the following combination of indoor units:

- 2 x MH026 or NJ026
- 1 x MH or NJ026 + 1 x NJ030
- 1 x MH or NJ026 + 1 x MH or NJ035
- 1 x MH or NJ035 + 1 x NJ030
- 2 x MH or NJ035

Rated Matches for MH080FXCA4A



This condensing unit can be matched with the following combination of indoor units:

- 1 x MH or NJ052 + 1 x MH or NJ026
- 1 x MH or NJ052 + 1 x NJ030
- 3 x MH or NJ026
- 2 x MH or NJ026 + 1 x NJ030
- 2 x NJ030 + 1 x MH or NJ026
- 1 x MH or NJ035 + 2 x MH or NJ026
- 1 x MH or NJ035 + 1 x MH or NJ026 + 1 x NJ030
- 1 x MH or NJ035 + 2 x NJ030
- 2 x MH or NJ035 + 1 x MH026 + NJ026
- 2 x MH or NJ035 + 1 x NJ030
- 2 x MH or NJ052
- 2 x MH026 or NJ026 + 1 x MH or NJ052
- 3 x MH or NJ035
- 4 x MH or NJ026

floor standing

Available Models

APV48Q0A - 48,000 BTU



Smart Power.

This powerful 4-ton system provides excellent cooling capabilities for the largest of rooms and offices without breaking the bank. Samsung's Smart Inverter technology allows the floor standing system to be extremely effective, while conserving energy and saving you money.



floor standing system features and benefits

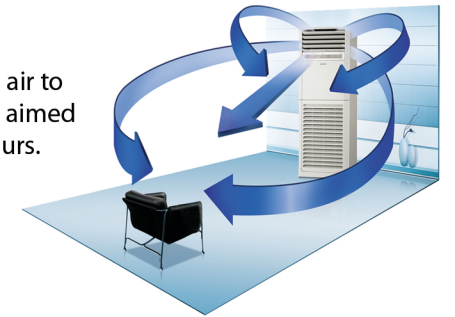


Smart Inverter

- High Efficiency
- Fast Heating and Cooling
- Virtually Silent Operation
- Wide Temperature Performance Range
- Up to 50% in Energy Savings vs. Non-Inverter

4-Way Auto Swing

Up, down, left, right. The 4-way auto swing feature delivers refreshing, cool air to the areas you desire, in the manner you want. Whether you want to airflow aimed in a single direction or distributed broadly across the room, the choice is yours.



Long Distance Airflow

This feature provides cool comfort to those areas farthest away from the air conditioner. Samsung recognizes that it is not only economically unsound but also wasteful in energy consumption when purchasing and turning on several air conditioners to cool a large, open area. Thus, Samsung provides you with an air conditioner with long-range airflow.



Auto Blade

When the air conditioner is turned on, the flaps open, ready to deliver pure, fresh air. When the system is turned off, the flaps automatically close to prevent dust from entering the unit. This keeps your system clean and ensures fresh air each time the air conditioner is turned on.



Turbo Cooling

When you enter your home or office after returning from the sweltering heat outside, you want immediate relief. The turbo cooling system provides exactly that, allowing you to cool down really fast.

Additional Features

- Dehumidification
- Timer
- Energy Saving Mode
- LED Display
- Child Care Lock

Floor Standing Applications

- Commercial**
- Office
 - Bar/Restaurant/Cafe
 - Extended Stay Facility
 - Retail Shop
 - Hotel/Motel
 - Nursing Home

accessories

specifications - vivace

Line Sets - Available in 25ft and 50ft lengths with separate power wire and control wire cables.

- Part Numbers:** ILS2506 (1/4" x 3/8" x 25ft)
 ILS2507 (1/4" x 1/2" x 25ft)
 ILS2509 (1/4" x 5/8" x 25ft)
 ILS5006 (1/4" x 3/8" x 50ft)
 ILS5007 (1/4" x 1/2" x 50ft)
 ILS5009 (1/4" x 5/8" x 50ft)

Control Wire - 2 Wire 16 AWG-shielded type and is available in spools of 100ft, 250ft and 500ft.
 (THIS WIRE CAN ONLY BE USED FOR THE CONTROL WIRE).

- Part Numbers:** I33-100 (100ft roll)
 I33-250 (250ft roll)
 I33-500 (500ft roll)

Condensate Pump - These 230V condensate pumps remove the condensation from the indoor unit.

- Part Numbers:** ASP-MO-230 (For Vivace, Classic and Free Joint Multi - Neo Forte models only)
 MDP-E075SEE (For Slim Duct models - EH035-070 & MH026-052FECA)
 MDP-075SGU1 (Used ONLY for DH105CAV - MSP Duct)
 MDP-075SGU2 (Used ONLY for DH140CAV - MSP Duct)

Mounting Bracket - These allow the outdoor unit to be mounted on a wall or the side of a building structure.

- Part Numbers:** CKN-90 (can support up to 90lbs)
 CKN-250 (can support up to 250lbs)

R410A Adapter - 5/16" female to 1/4" male adapter with schrader.

- Part Number:** R410A-ADPT

Wireless Remote Control Options - Wireless remote controls and necessary components for wireless operation.

- Part Numbers:** MR-AH01U Wireless Remote Control
 MRW-10AU Wire from receiver to unit
 MRK-A00U Wireless Signal Receiver

➤ **For Slim Duct models EH035-070**
All 3 Parts Required for Wireless Operation

- MR-BH01U Wireless Remote Control
 MRW-10AU Wire from receiver to unit
 MRK-A00U Wireless Signal Receiver

➤ **For MSP Duct models DH105 & 140, Slim Duct Models MH026-052FECA**
All 3 Parts Required for Wireless Operation

Wireless Remote Control Holder - Plastic holder for the Wall Mount Neo Forte and Free Joint Multi Neo Forte wireless remote controllers.

- Part Number:** DB61-00204A

Warranty

Compressor - 5 Years
 Parts - 3 Years
 Limited Labor - 120 Days

General	AQV12VBE	AQV18VBE	AQV24VBE
Nom Cooling Capacity (Btu/h)	12,000	18,000	24,000
SEER	19.0	16.0	15.5
Cool Capacity Range (Btu/h)	3,100 to 14,300	5,500 to 21,000	6,500 to 27,000
Nom Heating Capacity (Btu/h)	13,600	20,400	27,000
HSPF	9.0	8.0	7.8
Heating COP	3.5	3.3	2.8
Heat Capacity Range (Btu/h)	3,100 to 17,500	5,100 to 26,000	5,800 to 33,000
Refrigerant Type	R410A	R410A	R410A
De-Hum (Pints/Hr)	3.0	10.2	14.4
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	15A	20A	25A
RLA Cooling/Heating (Amps)	5.2/5.5A	7.5/8.2A	12.0/13.0A
Controls	Wireless Remote	Wireless Remote	Wireless Remote
Indoor Unit	AQV12VBE	AQV18VBE	AQV24VBE
Airflow-High Speed (CFM)	320	460	530
Fan Speeds	Turbo-High-Med-Low	Turbo-High-Med-Low	Turbo-High-Med-Low
Noise Level Low/High (Db)	21/35	30/40	30/41
Width (Inches)	32-1/2"	42"	42"
Height (Inches)	11-1/4"	11-3/4"	11 -34"
Total Depth (Inches)	7-7/16"	8-5/8"	8-5/8"
Weight (lbs)	20	28.6	28.6
Condensate Connection Ø	11/16" OD	11/16" OD	11/16" OD
Outdoor Unit	AQV12VBEX	AQV18VBEX	AQV24VBEX
Outdoor Noise Level (Db)	45	53	55
Width (Inches)	31-1/8"	34-5/8"	34-5/8"
Height (Inches)	21-5/8"	25-1/8"	25-1/8"
Total Depth (Inches)	11-1/4"	12-1/4"	12-1/4"
Weight (lbs)	72	112.2	112.2
Line Sets			
Size	1/4" & 3/8"	1/4" & 1/2"	1/4 & 5/8"
Max Line Set Length including	50ft	98ft	98ft
Max Vertical Separate of	26ft	49ft	49ft
Charged with R410A for	50ft (31.7oz R410A)	25ft (51.1oz R410A)	25ft (51.1oz R410A)
Add'l R410A charge required	No add'l R410A req'd	0.15oz/ft over 25ft	0.15oz/ft over 25ft
Certifications			
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	3405712	3405901	3405714



Due to Samsung's policy of ongoing product development, specifications are subject to change without prior notice.

specifications - neo forte

General	AQV09NSD	AQV12NSD	AQV18NSD	AQV24NSD
Nom Cooling Capacity (Btu/h)	9,000	12,000	18,000	24,000
SEER	19.0	18.0	16.0	15.0
Cool Capacity Range (Btu/h)	3,100 to 11,900	3,100 to 14,300	5,500 to 21,000	6,500 to 27,000
Nom Heating Capacity (Btu/h)	12,000	13,600	20,400	27,000
HSPF	9.5	8.5	8.0	7.8
Heating COP	3.6	3.4	3.3	2.8
Heat Capacity Range (Btu/h)	3,100 to 16,500	3,100 to 17,500	5,100 to 26,000	5,800 to 33,000
Refrigerant Type	R410A	R410A	R410A	R410A
De-Hum (Pints/Hr)	5.6	5.3	10.2	14.4
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	15A	15A	20A	25A
RLA Cooling/Heating (Amps)	3.3/4.7A	5.2/5.5A	7.5/8.2A	12.0/13.0A
Controls	Wireless Remote	Wireless Remote	Wireless Remote	Wireless Remote
Indoor Unit	AQV09NSDN	AQV12NSDN	AQV18NSDN	AQV24NSDN
Airflow-High Speed (CFM)	250	285	460	530
Fan Speeds	Turbo-High-Med-Low	Turbo-High-Med-Low	Turbo-High-Med-Low	Turbo-High-Med-Low
Noise Level Low/High (Db)	22/31	22/36	30/40	30/41
Width (Inches)	32-1/2"	32-1/2"	43-1/4"	43-1/4"
Height (Inches)	11-1/4"	11-1/4"	12-3/8"	12-3/8"
Total Depth (Inches)	7-1/2"	7-1/2"	8-5/8"	8-5/8"
Weight (lbs)	18	18	28.6	28.6
Condensate Connection Ø	11/16" OD	11/16" OD	11/16" OD	11/16" OD
Outdoor Unit	AQV09NSDX	AQV12NSDX	AQV18NSDX	AQV24NSDX
Outdoor Noise Level (Db)	45	45	53	55
Width (Inches)	31-1/8"	31-1/8"	34-5/8"	34-5/8"
Height (Inches)	21-1/2"	21-1/2"	25-1/8"	25-1/8"
Total Depth (Inches)	11-1/4"	11-1/4"	12-1/4"	12-1/4"
Weight (lbs)	69	69	101	110
Line Sets				
Size	1/4" & 3/8"	1/4" & 3/8"	1/4" & 1/2"	1/4" & 5/8"
Max Line Set Length including	50ft	50ft	98ft	98ft
Max Vertical Separation of	26ft	26ft	49ft	49ft
Charged with R410A for	50ft (31.7oz R410A)	50ft (31.7oz R410A)	25ft (51.1oz R410A)	25ft (51.1oz R410A)
Add'l R410A charge required	No add'l R410A req'd	No add'l R410A req'd	0.15oz/ft over 25ft	0.15oz/ft over 25ft
Certifications				
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	3405716	3405718	3405902	3405720



Due to Samsung's policy of ongoing product development, specifications are subject to change without prior notice.

specifications - 36k classic

General	AQV36JA
Nom Cooling Capacity (Btu/h)	33,000
SEER	18.0
Cool Capacity Range (Btu/h)	9,000 to 38,000
Nom Heating Capacity (Btu/h)	34,000
HSPF	9.0
Heating COP	3.1
Heat Capacity Range (Btu/h)	9,000 to 45,000
Refrigerant Type	R410A
De-Hum (Pints/Hr)	7.4
Power Voltage	208/230V-1Ph-60Hz
Breaker Size	35A
RLA Cooling/Heating (Amps)	13.0/14.5A
Controls	Wireless Remote
Indoor Unit	AQV36JA
Airflow-High Speed (CFM)	1230
Fan Speeds	Turbo-High-Med-Low
Noise Level Low/High (Db)	53/56
Width (Inches)	50-3/8"
Height (Inches)	13-5/8"
Total Depth (Inches)	9"
Weight (lbs)	44
Condensate Connection Ø	11/16" OD
Outdoor Unit	AQV36JAX
Outdoor Noise Level (Db)	66
Width (Inches)	36-5/8"
Height (Inches)	44-5/8"
Total Depth (Inches)	14-3/4"
Weight (lbs)	227
Line Sets	
Size	1/4" & 5/8"
Max Line Set Length including	162ft
Max Vertical Separation of	98ft
Charged with R410A for	25ft
Add'l R410A charge required	0.15oz/ft over 25ft
Certifications	
Safety	ETL & ETLc
Performance	AHRI Certified
AHRI Certification #	3023182



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specifications - floor standing

General	APV48Q0A
Nom Cooling Capacity (Btu/h)	48,000
SEER	15.0
Cool Capacity Range (Btu/h)	10,000 to 52,600
Nom Heating Capacity (Btu/h)	54,500
HSPF	9.46
Heating COP	3.1
Heat Capacity Range (Btu/h)	13,000 to 60,000
Refrigerant Type	R410A
De-Hum (Pints/Hr)	14.4
Power Voltage	208/230V-1Ph-60Hz
Breaker Size	40A
RLA Cooling/Heating (Amps)	23.4/21.6A
Controls	Wireless Remote
Indoor Unit	APV48Q0A
Airflow-High Speed (CFM)	1000
Fan Speeds	Turbo-High-Med-Low
Noise Level High (Db)	57
Width (Inches)	25-9/16"
Height (Inches)	72-13/16"
Total Depth (Inches)	15-9/16"
Weight (lbs)	136.4
Condensate Connection Ø	11/16" OD
Outdoor Unit	UH140CAV
Outdoor Noise Level (Db)	66
Width (Inches)	36-11/16"
Height (Inches)	44-7/16"
Total Depth (Inches)	14-3/4"
Weight (lbs)	231
Line Sets	
Size	3/8" & 3/4"
Max Line Set Length including	246ft
Max Vertical Separation of	98ft
Charged with R410A for	25ft (51.1oz R410A)
Add'l R410A charge required	0.4oz/ft over 25ft
Certifications	
Safety	ETL & ETLc
Performance	AHRI Certified
AHRI Certification #	3210135



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Specifications - slim duct / msp duct

General	SLIM-EH035CAV	SLIM-EH052CAV	SLIM-EH070CAV	MSP-DH140CAV	
Nom Cooling Capacity (Btu/h)	12,000	18,000	24,000	36,000	48,000
SEER	17.8	13.6	15.1	15.1	13.6
Cool Capacity Range (Btu/h)	3,300 to 14,300	5,500 to 21,000	6,500 to 27,000	9,900 to 39,000	10,000 to 52,600
Nom Heating Capacity (Btu/h)	13,600	18,000	24,000	38,000	54,500
HSPF	9.2	8.5	8.5	9.5	9.1
Heating COP	3.4	3.2	3.5	3.6	3.6
Heat Capacity Range (Btu/h)	3,100 to 18,000	5,800 to 30,700	7,000 to 37,000	11,500 to 52,900	12,800 to 66,600
Refrigerant Type	R410A	R410A	R410A	R410A	R410A
De-Hum (Pints/Hr)	5.6	7.6	10.2	8.0	10.8
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	20A	25A	30A	35A	40A
RLA Cooling/Heating (Amps)	5.5/5.4A	7.0/8.2A	10.5/10.5A	15.2/14.5A	22.0/20.7A
Controls	Wired Remote	Wired Remote	Wired Remote	Wired Remote	Wired Remote
Indoor Unit	EH035CAV	EH052CAV	EH070CAV	DH105CAV	DH140CAV
Airflow-Hi-Med-Lo (CFM)	370-320-265	500-440-390	635-565-500	1000-950-850	1260-1100-970
Max External Static ("WC)	0.125"	0.16"	0.16"	0.47"	0.47"
Noise Level High (Db)	40	40	42	48/49	49/50
Width (Inches)	35-7/16"	43-3/8"	43-3/8"	45-1/4"	47-1/4"
Height (Inches)	7-13/16"	7-13/16"	7-13/16"	12-5/8"	14-1/8"
Total Depth (Inches)	23-5/8"	23-5/8"	23-5/8"	18-7/8"	25-5/8"
Weight (lbs)	57	70	70	86	121
Supply Duct Connection	6" x 33-3/4"	6" x 41-3/4"	6" x 41-3/4"	9" x 35-1/2"	10" x 39-3/4"
Outdoor Unit	UH035CAV	UH052CAV	UH070CAV	UH105CAV	UH140CAV
Outdoor Noise Level (Db)	53	58	60	66	66
Width (Inches)	31-1/8"	34-5/8"	34-5/8"	36-11/16"	36-11/16"
Height (Inches)	21-7/8"	25-1/8"	27-3/4"	44-7/16"	44-7/16"
Total Depth (Inches)	11-1/4"	12-1/4"	12-1/4"	14-3/4"	14-3/4"
Weight (lbs)	74	110	125	225	231
Line Sets					
Size	1/4" & 3/8"	1/4" & 1/2"	1/4" & 5/8"	3/8" & 5/8"	3/8" & 3/4"
Max Line Set Length including	65ft	100ft	100ft	246ft	246ft
Max Vertical Separation of	23ft	49ft	49ft	98ft	98ft
Charged with R410A for	50ft	25ft	25ft	25ft (95.2oz R410A)	25ft (116.4oz R410A)
Add'l R410A charge required	0.15oz/ft over 50ft	0.2oz/ft over 25ft	0.1oz/ft over 25ft	0.4oz/ft over 25ft	0.45oz/ft over 25ft
Certifications					
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	1362349	1362350	1362351	1502437	1505148



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Specifications - 4-way cassette

General	CH070CAV1	CH105CAV	CH140CAV
Nom Cooling Capacity (Btu/h)	24,000	36,000	48,000
SEER	17.0	15.5	15.5
Cool Capacity Range (Btu/h)	7,500 to 28,500	11,000 to 41,000	13,800 to 52,600
Nom Heating Capacity (Btu/h)	27,000	38,000	54,500
HSPF	9.9	9.5	8.4
Heating COP	3.4	3.6	3.1
Heat Capacity Range (Btu/h)	6,800 to 37,000	9,200 to 50,000	11,500 to 59,000
Refrigerant Type	R410A	R410A	R410A
De-Hum (Pints/Hr)	14.4	14.4	14.4
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	25A	30A	40A
RLA Cooling/Heating (Amps)	10.0/10.3A	13.7/14.0A	21.5/22.2A
Controls	Wired Remote	Wired Remote	Wired Remote
Indoor Unit	CH070CAV1	CH105CAV	CH140CAV
Airflow-High Speed (CFM)	640	900	1000
Fan Speeds	Turbo-High-Med-Low	Turbo-High-Med-Low	Turbo-High-Med-Low
Noise Level High (Db)	36	40	41
Width (Inches)	33"	33"	33"
Height (Inches)	33"	33"	33"
Total Depth (Inches)	8-5/8"	11-3/4"	11-3/4"
Weight (lbs)	55.1	63.8	63.8
Condensate Connection Ø	1-1/8" OD	1-1/8" OD	1-1/8" OD
Outdoor Unit	UH070CAV1	UH105CAV	UH140CAV
Outdoor Noise Level (Db)	60	66	66
Width (Inches)	34-5/8"	36-11/16"	36-11/16"
Height (Inches)	31-3/8"	44-7/16"	44-7/16"
Total Depth (Inches)	12-1/4"	14-3/4"	14-3/4"
Weight (lbs)	125.2	209	209
Line Sets			
Size	1/4" & 5/8"	3/8" & 5/8"	3/8" & 3/4"
Max Line Set Length including	162ft	246ft	246ft
Max Vertical Separation of	49ft	98ft	98ft
Charged with R410A for	25ft (51.1oz R410A)	25ft (51.1oz R410A)	25ft (51.1oz R410A)
Add'l R410A charge required	0.15oz/ft over 25ft	0.4oz/ft over 25ft	0.4oz/ft over 25ft
Certifications			
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	3298252	3298253	3298254



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Specifications - free joint multi indoor units



General	Neo Forte MH026FNCA	Neo Forte MH035FNCA	Neo Forte MH052FNCA	Slim Duct MH026FECA	Slim Duct MH035FECA	Slim Duct MH052FECA
Nom Cooling Capacity (Btu/h)	9,000	12,000	18,000	9,000	12,000	18,000
SEER	15.5	15.5	15.5	15.5	15.5	15.5
Nom Heating Capacity (Btu/h)	10,000	13,000	19,000	9,900	13,000	19,000
HSPF	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0
Refrigerant Type	R410A	R410A	R410A	R410A	R410A	R410A
De-Hum (Pints/Hr)	5.6	7.6	10.2	5.6	7.6	10.2
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit
RLA Cooling/Heating (Amps)	0.17A (Indoor Only)	0.17A (Indoor Only)	0.3A (Indoor Only)	0.35A (Indoor Only)	0.35A (Indoor Only)	0.69A (Indoor Only)
Controls	Wireless Remote	Wireless Remote	Wireless Remote	Wired Remote	Wired Remote	Wired Remote
Airflow-Hi-Med-Lo (CFM)	340 (High)	340 (High)	540 (High)	370/320/265	400/335/320	530/440/390
Max External Static ("WC)	N/A	N/A	N/A	0.125"	0.125"	0.16"
Fan Speeds	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Hi-Med-Lo	Hi-Med-Lo	Hi-Med-Lo
Noise Level Low/High (Db)	23/32	23/36	30/40	32/27	32/27	33/30
Width (Inches)	32-1/2"	32-1/2"	43-1/4"	35-7/16"	35-7/16"	43-5/16"
Height (Inches)	11-1/4"	11-1/4"	12-3/8"	7-13/16"	7-13/16"	7-13/16"
Total Depth (Inches)	7-7/16"	7-1/2"	8-9/16"	23-5/8"	23-5/8"	23-5/8"
Weight (lbs)	17	17	29	57	57	68
Supply Duct Connection	N/A	N/A	N/A	6" x 33-3/4"	6" x 33-3/4"	6" x 41-3/4"
Condensate Connection Ø	11/16" OD	11/16" OD	11/16" OD	N/A	N/A	N/A
Line Sets						
Size	1/4" & 3/8"	1/4" & 3/8"	1/4" & 1/2"	1/4" & 3/8"	1/4" & 3/8"	1/4" & 1/2"
Max Line Set Length including	75ft	75ft	75ft	75ft	75ft	75ft
Max Vertical Separation of	50ft	50ft	50ft	50ft	50ft	50ft
Certifications						
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	3069050 / 3069052	3069050 / 3069052	3069050 / 3069052	3069049 / 3069051	3069049 / 3069051	3069049 / 3069051



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Specifications - free joint multi indoor units



General	1-Way Cassette NJ0261HXCA	1-Way Cassette NJ0351HXCA	4-Way Cassette NJ030MHXCA	4-Way Cassette NJ035MHXCA	4-Way Cassette NJ052MHXCA
Nom Cooling Capacity (Btu/h)	9,000	12,000	9,000	12,000	18,000
SEER	15.5	15.5	15.5	15.5	16
Nom Heating Capacity (Btu/h)	10,000	13,000	10,000	13,000	19,000
HSPF	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0
Refrigerant Type	R410A	R410A	R410A	R410A	R410A
De-Hum (Pints/Hr)	2.7	3.3	2.7	3.7	4.7
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit	See Outdoor Unit
RLA Cooling/Heating (Amps)	0.23A (Indoor Only)	0.25A (Indoor Only)	0.47A (Indoor Only)	0.47A (Indoor Only)	0.47A (Indoor Only)
Controls	Wireless Remote	Wireless Remote	Wired Remote	Wired Remote	Wired Remote
Airflow-High Speed CFM)	250	285	360	360	375
Max External Static ("WC)	N/A	N/A	N/A	N/A	N/A
Fan Speeds	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo
Noise Level Low/High (Db)	25/30	32/37	27/34	27/34	33/41
Width (Inches)	38-1/4"	38-1/4"	22-3/4"	22-3/4"	22-3/4"
Height (Inches)	5-3/8"	5-3/8"	22-3/4"	22-3/4"	22-3/4"
Total Depth (Inches)	16-1/8"	16-1/8"	10-1/4"	10-1/4"	10-1/4"
Weight (lbs)	23	23	38	38	38
Supply Duct Connection	N/A	N/A	N/A	N/A	N/A
Condensate Connection Ø	1" OD, 3/4" ID	1" OD, 3/4" ID	1-1/4" OD Quick Lock	1-1/4" OD Quick Lock	1-1/4" OD Quick Lock
Line Sets					
Size	1/4" & 3/8"	1/4" & 3/8"	1/4" & 3/8"	1/4" & 3/8"	1/4" & 1/2"
Max Line Set Length including	75ft	75ft	75ft	75ft	75ft
Max Vertical Separation of	50ft	50ft	50ft	50ft	50ft
Certifications					
Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
AHRI Certification #	3069050 / 3069052	3069050 / 3069052	3069050 / 3069052	3069049 / 3069051	3069049 / 3069051



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Specifications - free joint multi outdoor units



notes

General	MH050FXCA2A	MH080FXCA4A
Max Connected Capacity (Btu/h)	24,000	36,000
SEER	15.5	15.5
Min Cooling Capacity (Btu/h)	6,000	6,500
HSPF	8.0	8.0
Min Heating Capacity (Btu/h)	7,200	8,500
Refrigerant Type	R410A	R410A
Power Voltage	208/230V-1Ph-60Hz	208/230V-1Ph-60Hz
Breaker Size	25A	30A
RLA Cooling/Heating (Amps)	8.6/9.0A	12.3/12.6A
Controls	DDC	DDC
Noise Level (Db)	50	55
Width (Inches)	34-5/8"	34-5/8"
Height (Inches)	25-1/8"	31-3/8"
Total Depth (Inches)	12-1/4"	12-1/4"
Weight (lbs)	131	156
Line Sets		
Connection Sizes	1/4" & 3/8" x 2	1/4"&3/8"x3 + 1/4"&1/2"x1
Max Line Set Length including	100ft	225ft
Max Vertical Separation of	50ft	98ft
Max Individual Line Set Length	75ft	75ft
Charged with R410A for	65ft	131ft
Add'l R410A charge required	0.1oz/ft over 65ft	(3/8" Line) 0.1oz/ft over 131 ft (1/2" Line) 0.1oz/ft over 131 ft
Certifications		
Safety	ETL & ETLc	ETL & ETLc
Performance	AHRI Certified	AHRI Certified
AHRI Certification #	3069049 / 3069050	3069051 / 3069052



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