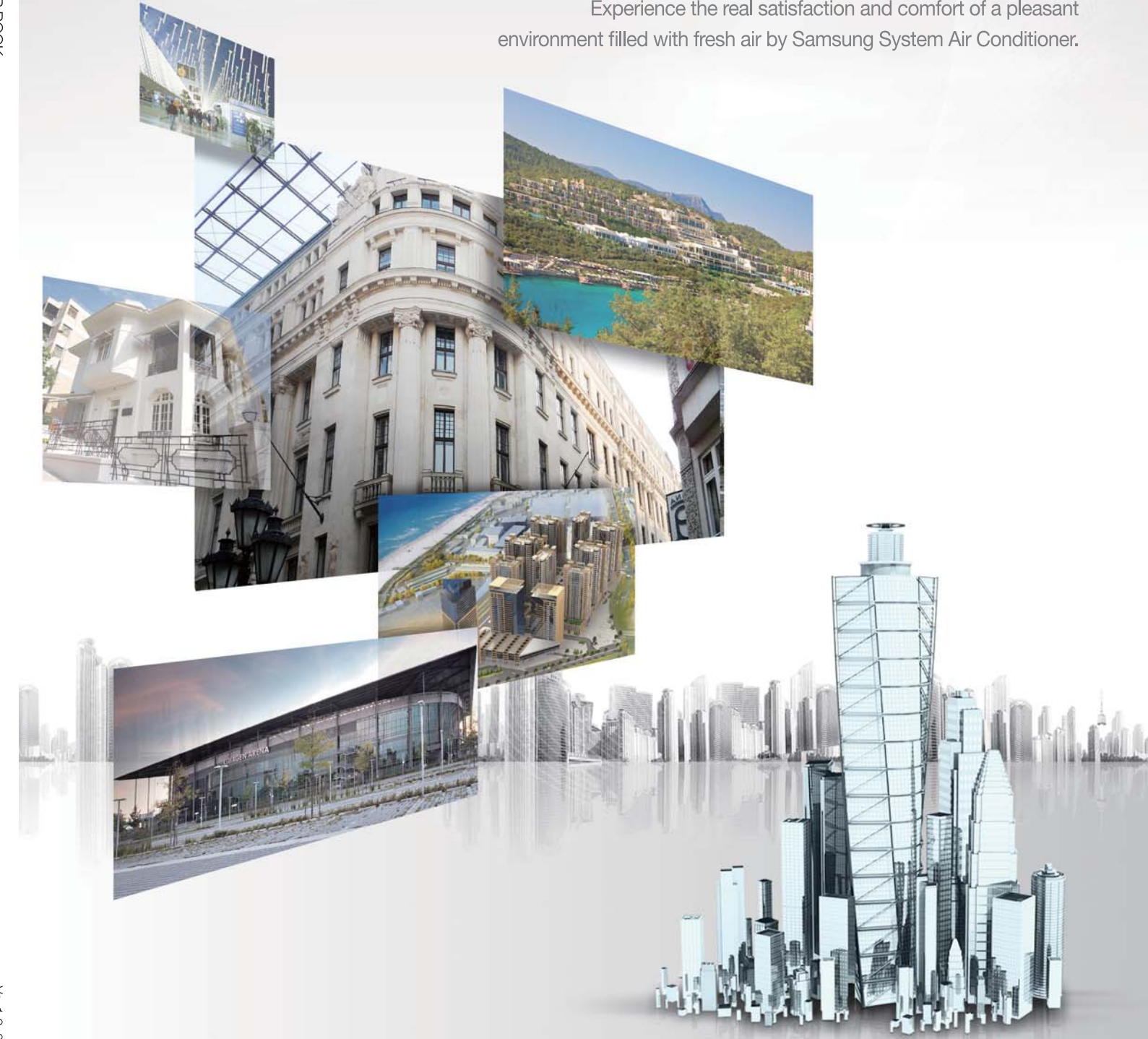




A Fresh Breeze in the World, Samsung Air Conditioner

Experience the real satisfaction and comfort of a pleasant environment filled with fresh air by Samsung System Air Conditioner.



2012 SAMSUNG SYSTEM AIR CONDITIONERS USP BOOK

Ver.1.0 2011.12

Learn more about Samsung air conditioner at: www.dvmsystem.com

Samsung Electronics Co., LTD
Head Office(Suwon Korea)
416, Maetan-3dong, Yeongtong-gu,
Suwon-City, Gyeonggi-do,
443-742, Korea



2012 SAMSUNG AIR CONDITIONER

◀ open
ICONS



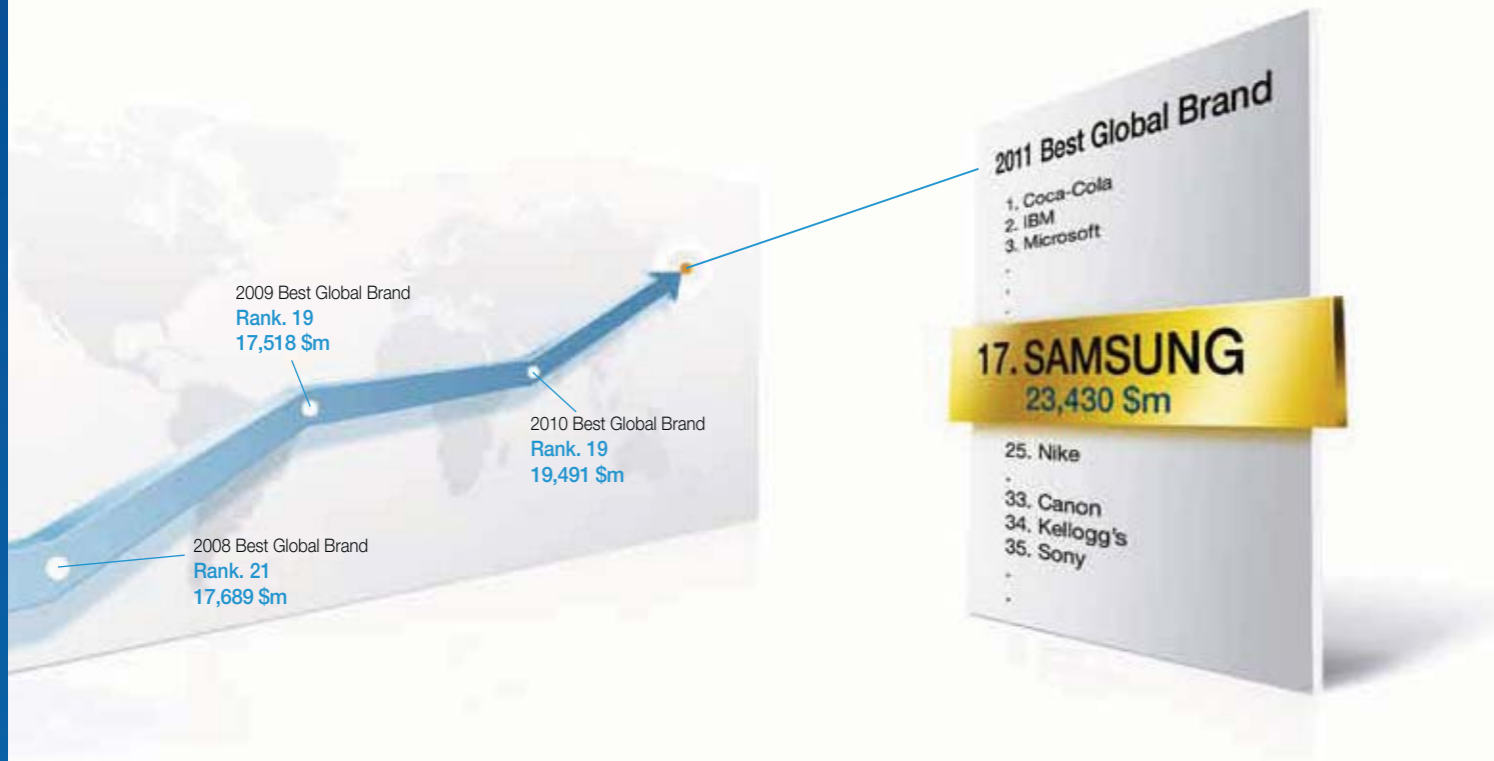
One Step Ahead for Better Air Solution

Samsung air conditioner is a perfect solution for your desired environment. The refreshing air delivers the utmost comfort to keep you invigorated. Experience the wonders of smart air conditioners that take your life to another level of easier, simpler living. Stay comfortable all day long with clean and healthy breeze brought to you by Samsung air conditioner.

Samsung is moving ahead and with our customers

“Put simply, our differentiation is centered on producing innovative technology that brings genuine change to people’s lives. We do this by bringing a relentless focus on consumer experience and product innovation in everything we do.”

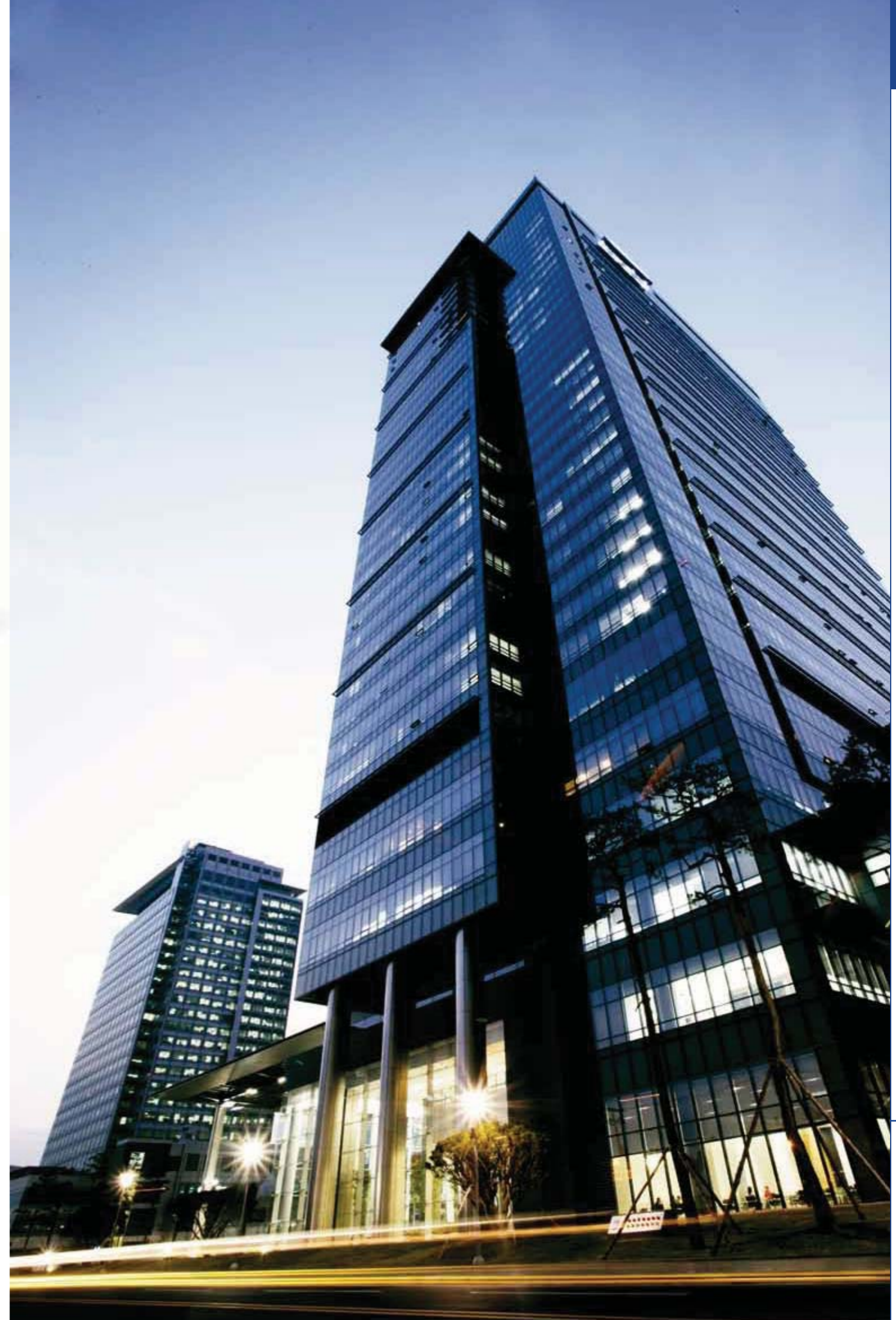
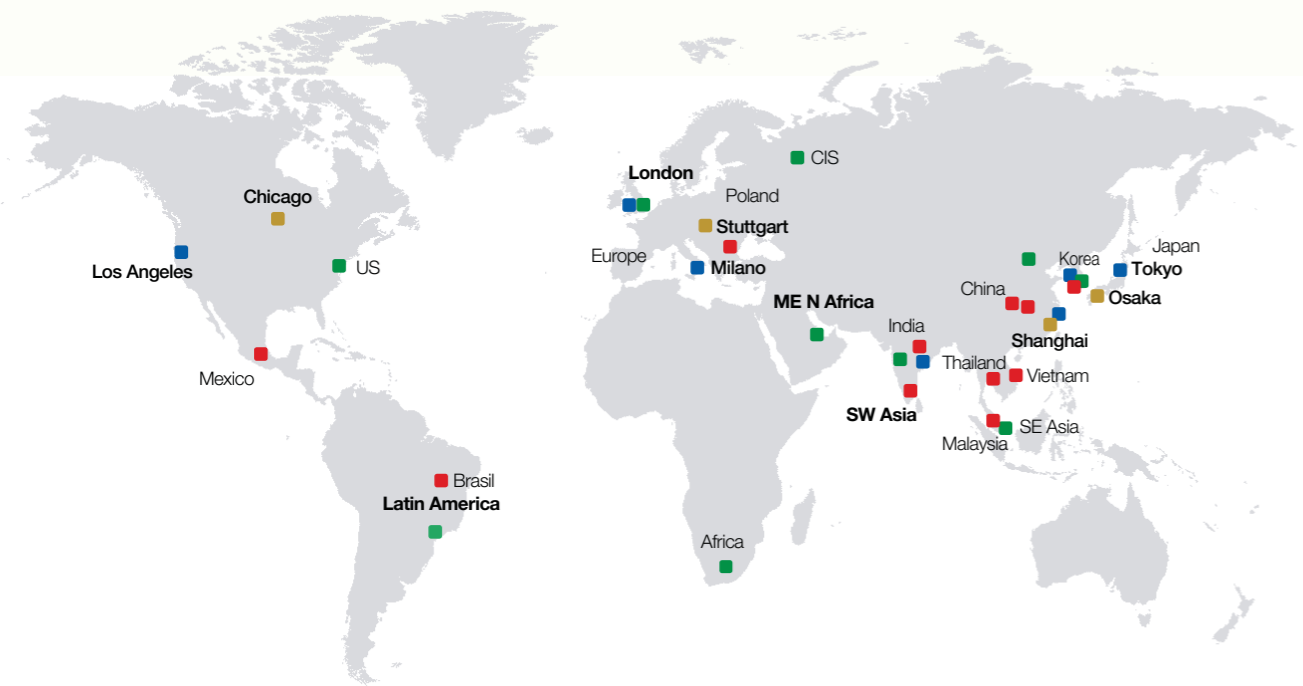
- Sue Shim CMO (Chief Marketing Officer), SAMSUNG



- 2011 Best Global Brand**
1. Coca-Cola
 2. IBM
 3. Microsoft
 - ...
 - 17. SAMSUNG**
23,430 \$m
 - ...
 25. Nike
 - ...
 33. Canon
 34. Kellogg's
 35. Sony
 - ...

Global Business Network

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



'Eco-friendly' Samsung

Preserves the nature you live in.

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



Air & Water Conservation

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



Samsung Eco-Friendly Air Conditioner

Making continuous efforts to stay eco-friendly, Samsung air conditioners use R410A, an environment-friendly refrigerant to help rid the air of pollutants and restrain the use of materials with high global warming potential(GWP). These energy-efficient air conditioners not only save you money, but help conserve the environment.



Global Recycling

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



Use Less, Save More

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



Galeria de Innovacion 2009

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

iF Product Design Award 2009

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

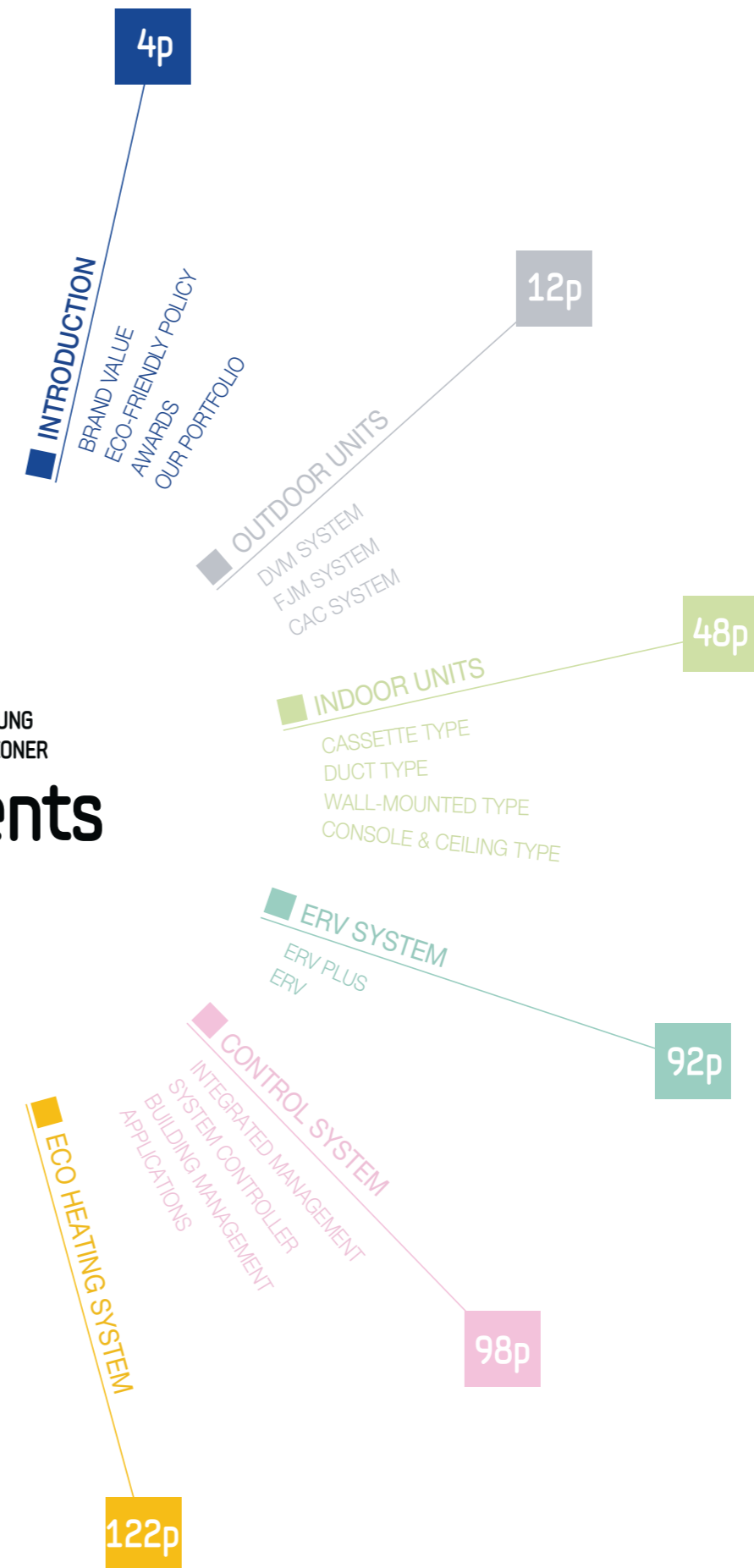
Comfort & Design 2010

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

Good Design Award 2011

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

2012 SAMSUNG AIR CONDITIONER
Contents



Global Operation of Samsung System Air Conditioner

Samsung system air conditioners are chosen by various groups from different countries all around the world for their proven performance.



Location_Hungary
Project_Shopping Mall



Location_Germany
Project_Soccer Stadium



Location_Greece
Project_Restaurant



Location_Germany
Project_Business Park



Location_France
Project_Hotel



Location_Turkey
Project_University



Location_Turkey
Project_Princess Resort



Location_Czech Republic
Project_Apartment Building



Location_Turkey
Project_Hotel



Location_Turkey
Project_Office building



Location_Turkey
Project_Office Building



Location_Slovenia
Project_Utility Company



Location_South Africa
Project_Hotel



Location_Korea
Project_Residential Building



Location_Croatia
Project_Office & Residential Building



Location_Vietnam
Project_Hotel



Location_Korea
Project_Soccer Stadium



Location_China
Project_International Airport



Location_China
Project_Business Park



Location_Korea
Project_Tourist Attraction



Location_Vietnam
Project_Hotel



Location_India
Project_Training Center



Location_Saudi Arabia
Project_Medical Clinic



Location_Qatar
Project_Office Building



Location_U.A.E
Project_Residential Building



Location_Austria
Project_Cityhall Traiskirchen

SAMSUNG

The Best Choice for the Best Building

SAMSUNG System Air Conditioner

DVM PLUS IV
DIGITAL VARIABLE MULTI



Outdoor Unit

Experience the Power

DVM System

For Large Buildings

With its wide range of capacities and the advanced technology, the DVM system is a perfect cooling and heating solution for any type of space from high-rise buildings to small commercial places.



FJM System

For Large Residential Places

A single outdoor unit supporting up to 5 indoor units, the FJM system is ideal for residential spaces with multiple rooms to increase space efficiency.



CAC System

For Individual Commercial Places

This one-to-one system that links outdoor and indoor units is the most suitable air solution for individual businesses to manage their own air-conditioning system in small and medium-sized commercial places.



Strong and Compact

DVM PLUS IV

DIGITAL VARIABLE MULTI

DVM PLUS IV is a high-tech digital hybrid system that provides world-class energy efficiency and outstanding performance. This system creates comfort in variable environments, improving cooling and heating performance by adopting third generation PHE (Plate Heat Exchanger). This is a perfectly optimized cooling and heating system for large buildings requiring different air solutions.

Features

- High Efficiency
- Large Capacity
- Advanced and Reliable Protection
- Easy Installation & Maintenance
- Eco-friendly
- Comfortable Operation
- Premium Quality Control Heat Recovery

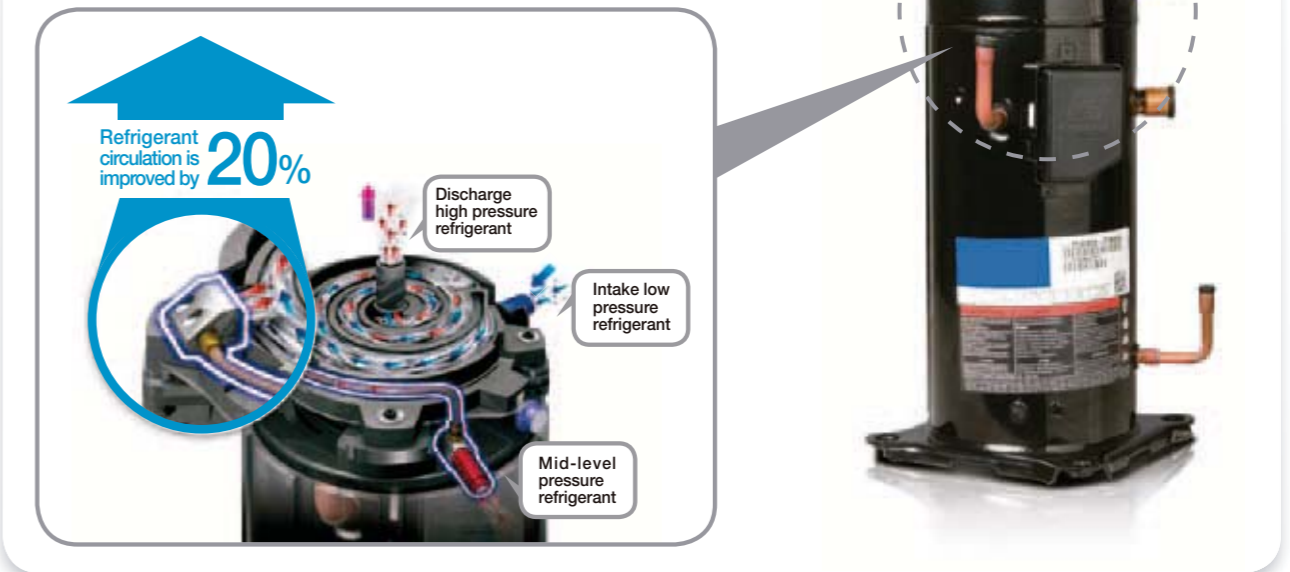


High Efficiency

High Efficiency Vapor Injection Technology

Improved refrigerant flow rate and cooling/heating performance!

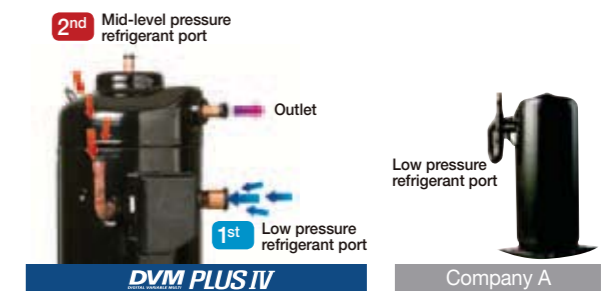
Vapor injection is a double compression technology that re-injects mid-pressure refrigerant in a vaporized state from the PHE intercooler to increase the refrigerant flow rate. This technology improves both the refrigerant flow rate and cooling/heating performance by 20%, thus maximizing its efficiency.



DVI (Digital Vapor Injection) Compressor

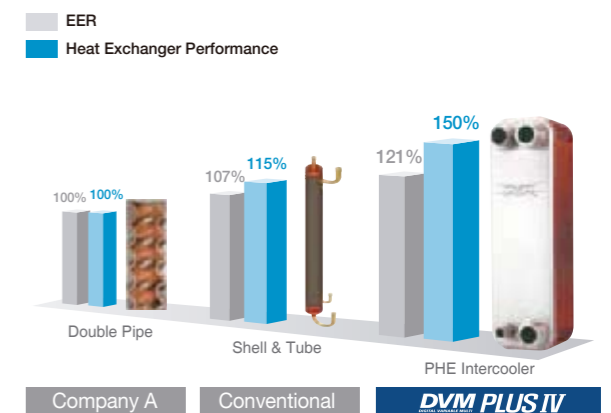
2-stage compression effect with single compressor!

This high-tech and highly efficient compressor achieves a 2-stage compression effect with just a single compressor. This allows you to save on energy cost since the compression efficiency is increased by using a method that intakes regular refrigerant and discharges it in a high refrigerant state after second compression.



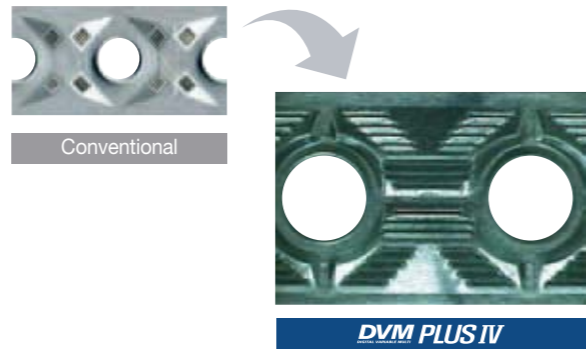
PHE (Plate Heat Exchanger)

Plate Heat Exchanger type intercooler is adopted on DVM PLUS IV to improve cooling and heating efficiency. Heating efficiency with PHE has been improved by 35% compared to our conventional products with Shell & Tube type intercooler and 50% compared to the competitor's products with Double Pipe type intercooler.



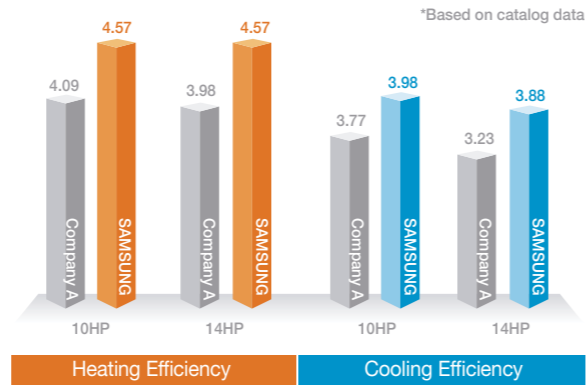
Bigger and Better Heat Exchanger

The outdoor unit heat exchanger has grown in size: it now has 60 columns, which is about 10% larger than the conventional product's 56 columns. The DVM chassis also uses a newly optimized fin design that enhances the performance of the heat exchanger.



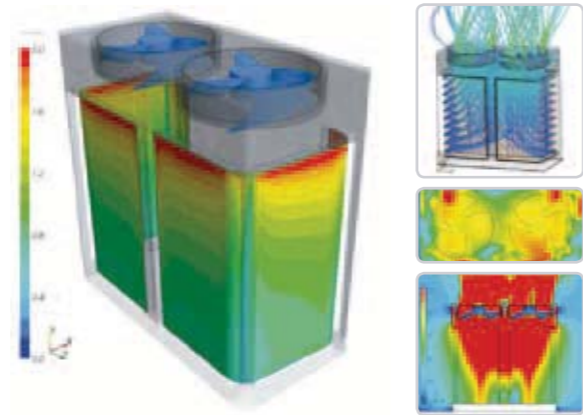
World Class Energy Efficiency in Heating and Cooling

DVM PLUS IV has achieved the highest level of COP (4.57) and EER (3.98) in the 10 HP category, as well as in the 14 HP category (4.57 in COP and 3.88 in EER), which surpasses our competitor's performance by 15% in COP and 20% in EER.



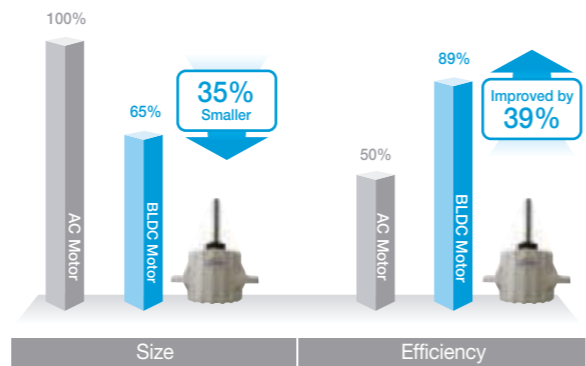
Optimized Air Discharge Profile

The air discharge profile within the Fan and the Fan Guard is optimized for better heat exchange, which increases efficiency and provides quick cooling and heating.



Outdoor Unit BLDC Fan Motor

DVM PLUS IV uses a BLDC motor, which is 35% smaller, but 39% more efficient than conventional AC motors.



The World's Largest Capacity

Economical Installation Cost!

The world's largest unit capacity facilitates the economical installation with smaller footprint area and lighter weight, making it a perfect fit for larger buildings. Installing larger capacity modules will save on installation costs since less equipment is required when you use units that offer greater capacities.



World's Largest Module Capacity 80HP

Single piping installation is possible from mid-sized to high-rise buildings.



World's Largest Single Capacity 20HP

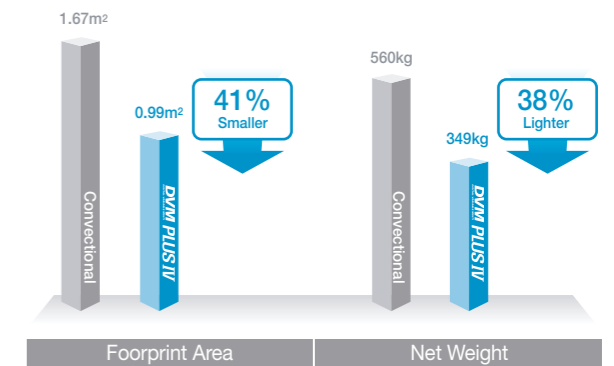
Economical installation with smaller footprint area and lighter weight.



※If you wish to install an outdoor unit module with a capacity of over 60 HP, then please contact your local Samsung Dealer.

Smallest Footprint Area and Lighter Weight

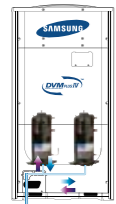
The unit's footprint area has been reduced by 41%, and the product's weight is 38% lighter compared to conventional models.



Oil Balancing Control

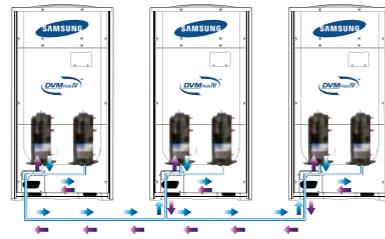
DVM PLUS IV uses oil balancing technology that ensures that oil distribution is stable and equal, even when multiple outdoor units are installed at various levels or distance. This allows flexible installation options for outdoor units.

Internal Oil Balancing Control

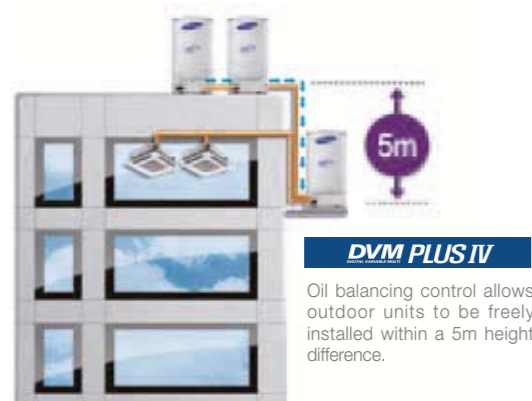


A stable and optimized amount of oil will be evenly balanced between the compressors within the outdoor units regardless of the compressors' On/Off status.

External Oil Balancing Control



The flow of the oil between the outdoor units within the module will be balanced, even when the outdoor units are installed away from each other or at different heights.



DVM PLUS IV

Oil balancing control allows outdoor units to be freely installed within a 5m height difference.

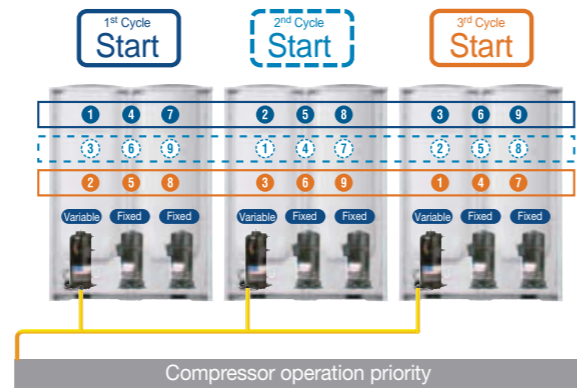


Company A

Multiple outdoor installation is impossible since the level difference between outdoor units will cause oil circulation problems.

Sequential Operation of Compressor

When the outdoor unit is not operating at full capacity, the compressor will start up the operation in sequence to prevent one particular compressor from overworking. This sequential operation for compressors will prolong the life of the compressor and ensure the reliability of performance.



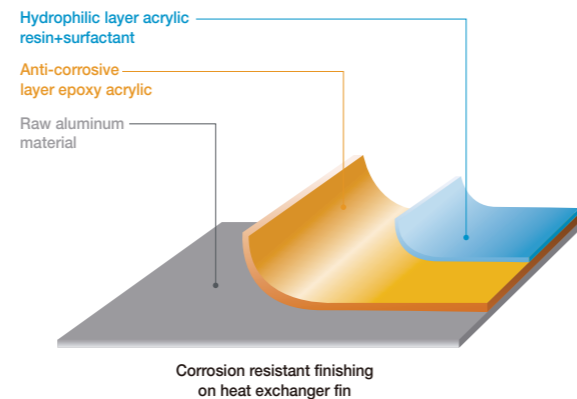
Compressor operation priority

Corrosion & Frost Resistant

The highly hydrophilic coating facilitates efficient heat exchange and delays the onset of frost formation to provide consistent heating performance. An anti-corrosive coating also helps units to resist corrosion from the elements.

- Corrosion resistant with epoxy acrylic coating.
- Implemented corrosion resistant through acrylic+surfactant.

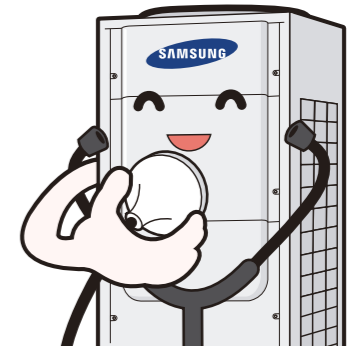
- 1 Hydrophilic
- 2 Heat Spread
- 3 Corrosion Resistance



Corrosion resistant finishing on heat exchanger fin

Self-diagnosis Mode

DVM PLUS IV monitors the operation status and displays an error code in response to any sign of abnormal activity, thus enabling you to easily solve the problem.



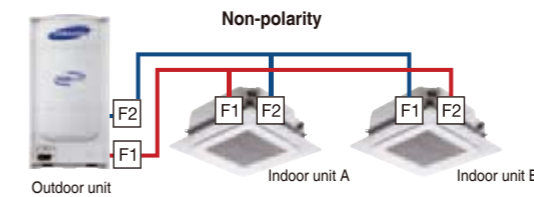
Pre-protection System

DVM PLUS IV uses special internal fuse devices to protect the compressors from possible damage caused by overcurrent.

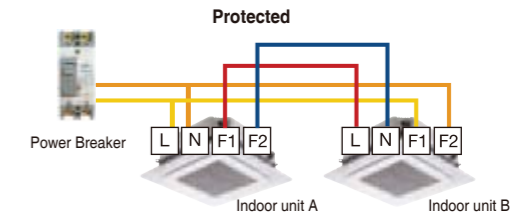


Easy and Safe Wiring Work

Non-polar communication between indoor and outdoor units makes wiring work much easier. This is also safer since the outdoor unit will protect itself in case the communication cable is connected to a power terminal by mistake.



Normal operation even when communication cables are not connected correctly



Air conditioner is protected even when power / communication cables are not connected correctly

Auto Snow Blowing Function

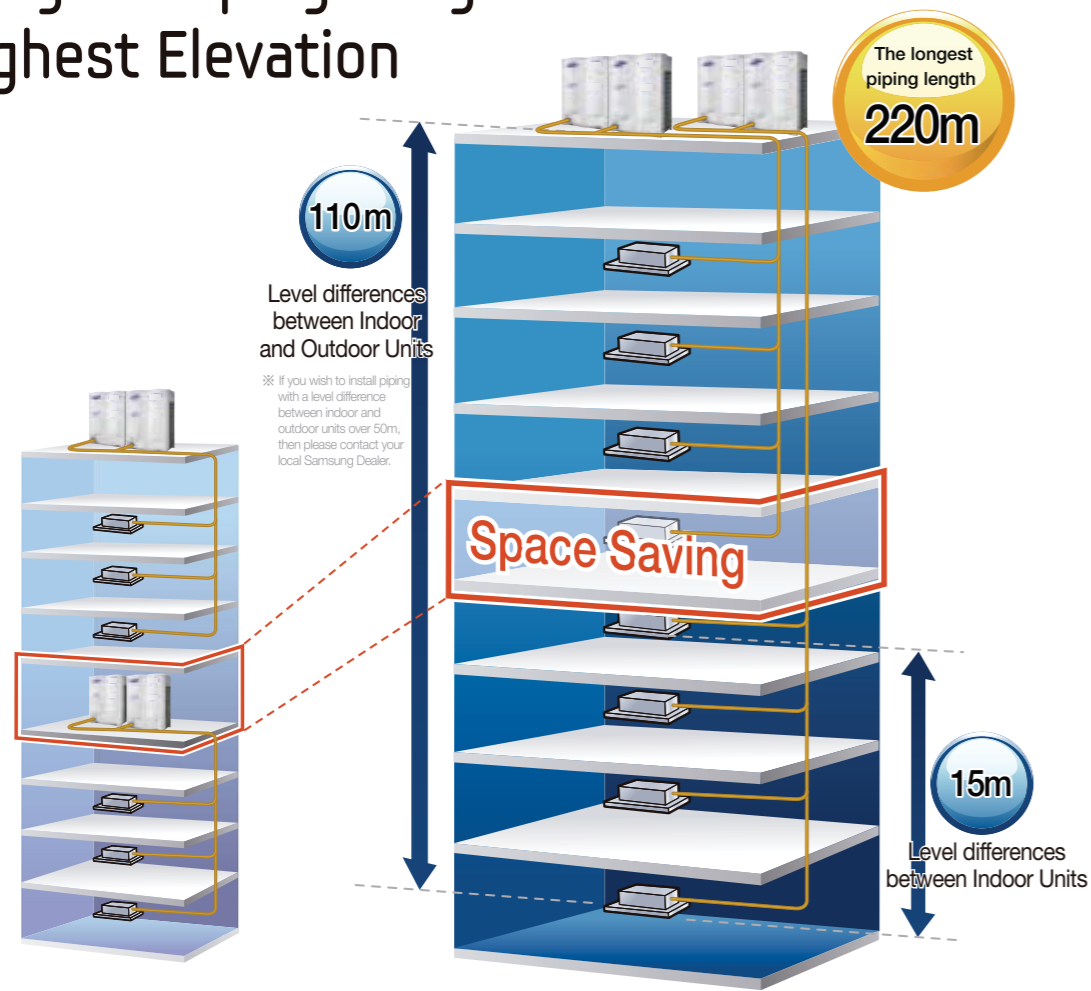
Snow that accumulates and covers the outdoor units during the winter must be removed in order for these units to operate properly. Snow prevention function removes accumulated snow, so you won't have to get rid of it by yourself. Outdoor units will blow away covered snow every 30 minutes to prevent any damage that can be caused by this snow.



Before Blowing

After Blowing

Longest Piping Length & Highest Elevation



Flexible Installation in High-rise Buildings

Installation is available with a maximum height level of 110m, which is equivalent to 20 stories (each story is considered to be a 5m high).

Flexible Installation over Wide Area

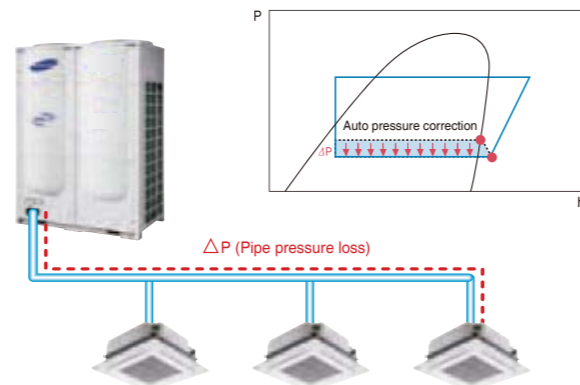
DVM PLUS IV allows extended piping length up to 220m, and units will still give a great performance over wide areas.

Flexible Selection of Indoor Units

You can choose indoor units which are suitable for each space, offering various options in capacity and composition. You can also enjoy the indoor units more economically since each indoor unit can be individually controlled.

Optimized Refrigerant Distribution Control

When long piping is installed between the outdoor units and indoor units, the individual indoor units will use auto performance correction control technology and automatic refrigerant amount adjustment technology to secure balanced performance between the units.



Black box (Automatic Data Backup)

If a malfunction occurs with DVM PLUS IV outdoor unit, it will automatically diagnose the problem and save the last 30 minutes of operation data. An optional accessory can be used to store operational data for over one year, which can be helpful in getting you quick and accurate repair service when you need it.



Refrigerant Pump-down and Pump-out

DVM PLUS IV provides the refrigerant pump-down/out functions to facilitate easy and convenient replacement of the product, as well as additional installations and maintenance. In case of outdoor unit maintenance, it is possible for the refrigerant to recover into indoor units or pipes. It is also possible to recover refrigerant into outdoor units when moving indoor units or performing maintenance of pipes between indoor units and outdoor units.



Versatile Piping Connection with Various Knock-out Holes

The knock-out holes for piping, power, and communication cables are located in a variety of directions, allowing for more convenient installation of DVM PLUS IV since the piping and cable direction can be freely selected from the front, left, and right side.



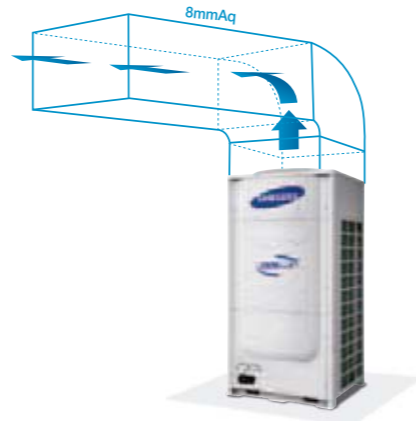
Easier Access for Status Check and Option Settings

Checking the outdoor unit status and setting option are easier and simpler since you don't need to remove the entire front cover, thanks to the small openings on the front side of the outdoor unit.



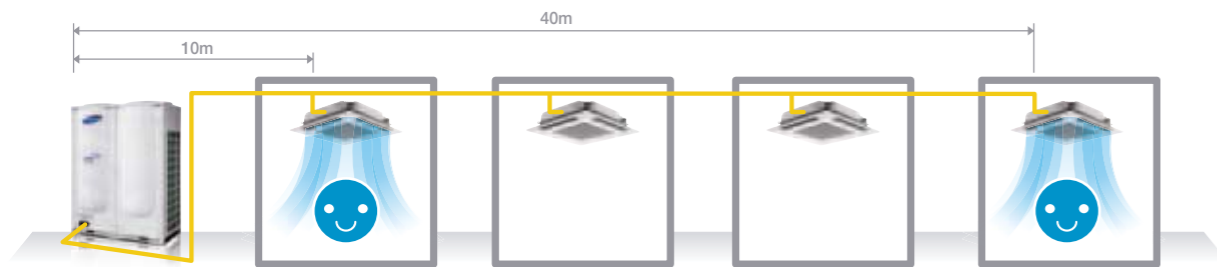
High External Static Pressure

To properly deal with unexpected various installation conditions, DVM PLUS IV is designed to manage high external static pressures up to 8mmAq.

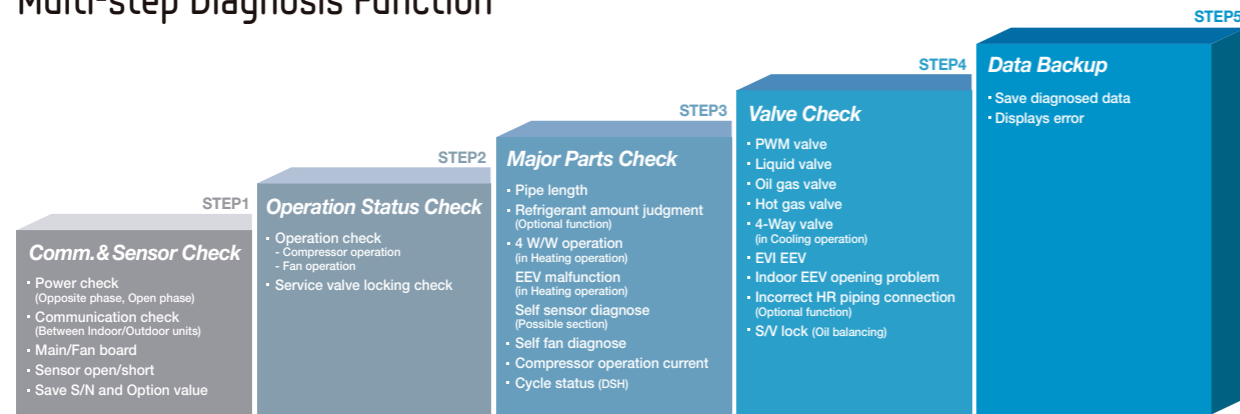


Automatic Pipe Length Recognition

The system provides evenly powerful cool and warm air, regardless of the distance.



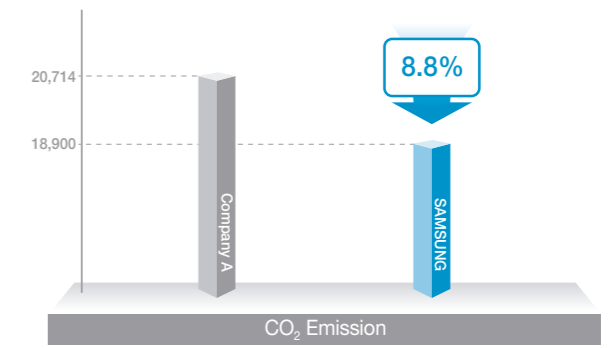
Multi-step Diagnosis Function



Decreased CO₂ Emission

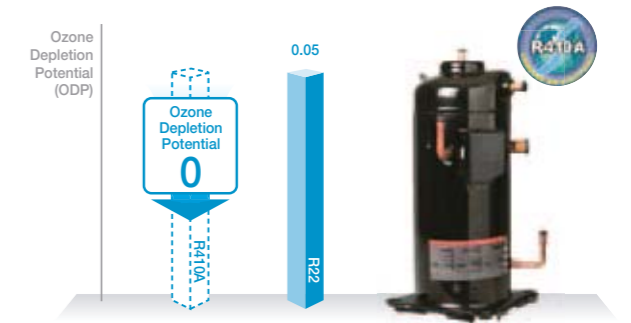
DVM PLUS IV is a highly efficient product that adopts advanced eco-friendly technology to reduce carbon dioxide (CO₂) emissions.

- CO₂ emission level: Data based on 0.42kg/kWh
- Time period: 5 months (Nov ~ Mar, 3,600 hours)
- Data based on 18HP model heating



R410A Refrigerant

DVM PLUS IV adopts a new compressor that is optimized with eco-friendly R410A refrigerant, which has a "0" ODP value, to minimize environmental pollution. This also improves refrigerant operation efficiency and performance.



Europe Eco-friendly RoHS Technology Certification

Samsung minimizes the use of toxic substances such as mercury, lead, and cadmium, attaining RoHS certification with its excellent eco-friendly technology.



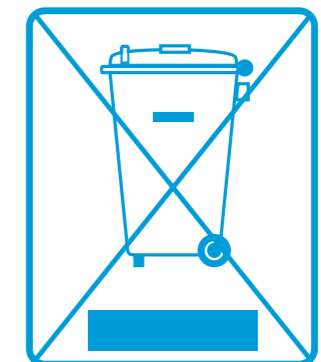
RoHS(Restriction of Hazardous Substances Directive)

RoHS sets eco-friendly regulations that ban the use of toxic substances, such as mercury, lead, and cadmium, that are obstacles in electronic recycling.



WEEE

SAMSUNG invests significant efforts to help save the environment and comply with the WEEE Directive by joining or establishing recycling schemes for each country.



Simultaneous Cooling and Heating

Single outdoor units can operate all the indoor units in both cooling and heating mode. They can also simultaneously operate in cooling and heating mode when it is necessary to provide more freedom for operation.

Recommended Sites



Hotel



Office



Hospital



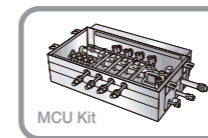
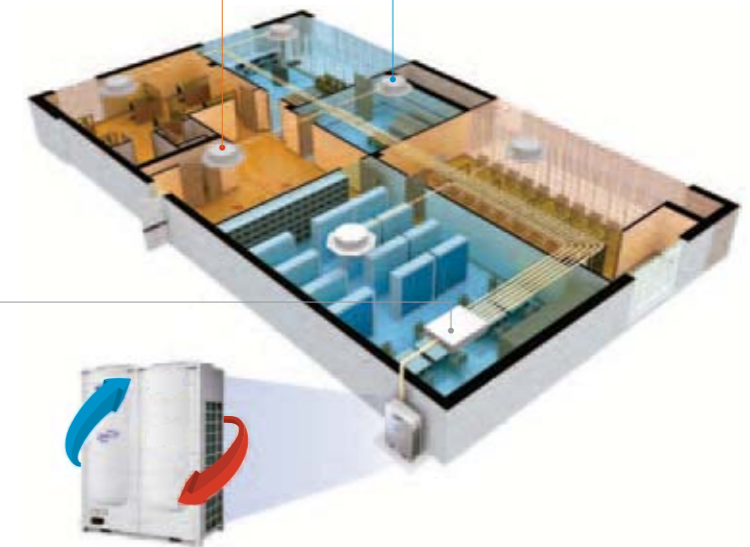
Cooling

Cooling operation for indoor environments where cooling load occurs all year round due to devices and lighting that generate heat.



Heating

Heating operation for indoor environments where heating load occurs due to the outdoor environment.

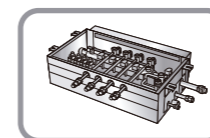


MCU Kit

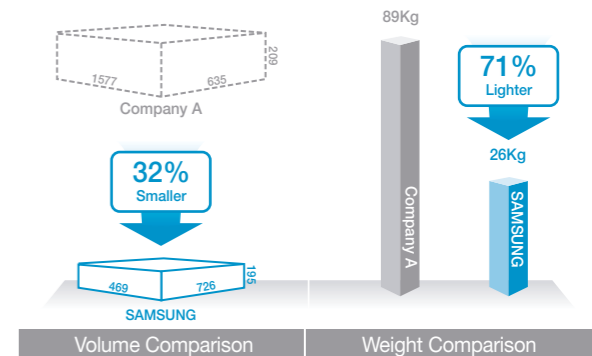


MCU Kit

DVM PLUS IV HR uses an MCU kit that is 32% smaller than our competitor's. The MCU has an internal On/Off valve that enables fine control through the EEV valve control, and sub-cooler also supports fine-tuned control. Enjoy a pleasant temperature controlled environment through improved performance and reduced noise.



MCU Kit



Stable Heating Operation

DVM PLUS IV provides stable heating performance by constant operating in heating mode, even when the outdoor unit recovers oil. competitor's outdoor units cease heating operation while they recover oil.



Company A

* Heating mode stops when the outdoor units recover oil, thus decreasing the indoor temperature.

Performance Backup Function

While the outdoor unit is in oil balancing control operation, compressors that are not affected by this operation will keep operating in heating mode to minimize any reduction in performance.

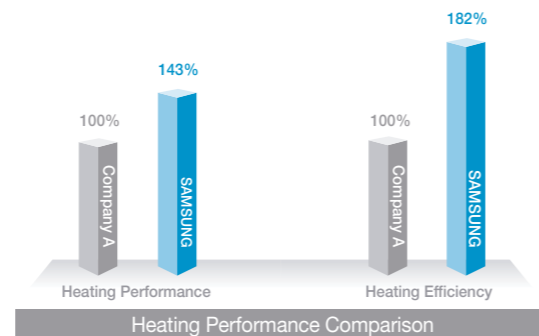


DVM PLUS IV

* Heating mode maintains the indoor temperature, even during recovery operation.

Top Heating Performance at Low Ambient Temperature

DVM PLUS IV applies highly advanced technologies such as a super condenser, PHE intercooler, and Vapor Injection to achieve better heating performance, even at low ambient temperatures of -10°C.



Heating Performance Comparison

* Comparison is based on 10HP model.

Powerful and Reliable

DVM Desert

DIGITAL VARIABLE MULTI

With its advanced components and technologies, DVM Desert provides the most powerful and reliable cooling performance, capable of efficiently withstanding high ambient conditions. This air conditioning system has achieved world-class energy efficiency and cooling capacity, making it a perfect fit for large buildings.

Features

Reliable Operation in 54°C High Ambient Condition

High Efficiency

Large Capacity

Advanced and Reliable Protection

Easy Installation & Maintenance

Eco-friendly



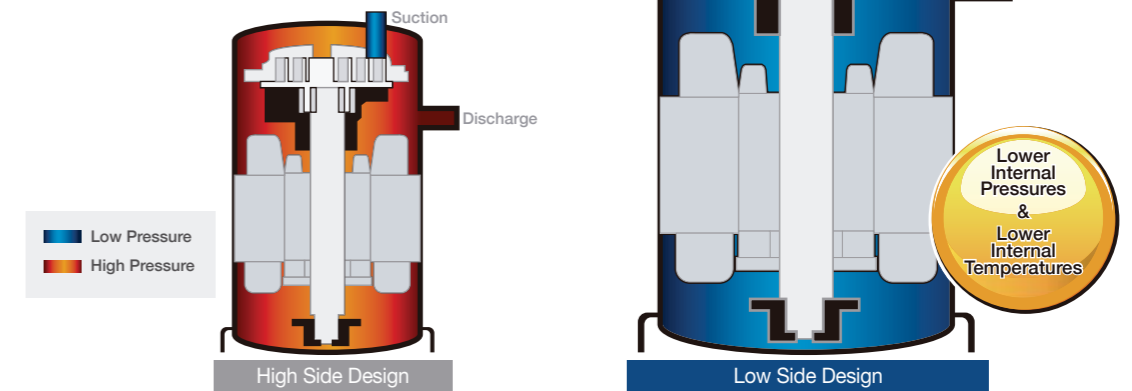
High Efficiency

Continuous and Reliable Operation in 54°C High Ambient Condition

DVM Desert is designed to withstand extremely hot weather and harsh operating conditions. It can continuously operate in 54°C condition thanks to its advanced components and technologies.

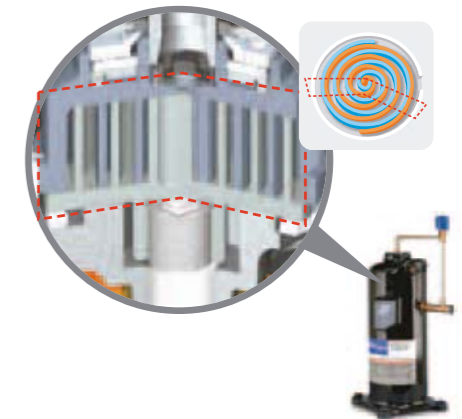
Low Side Design of Compressor

The low side design of the compressor is perfectly suited for high ambient conditions: the internal pressure and temperature of the compressor is kept low and stable, thus maximizing performance and efficiency.



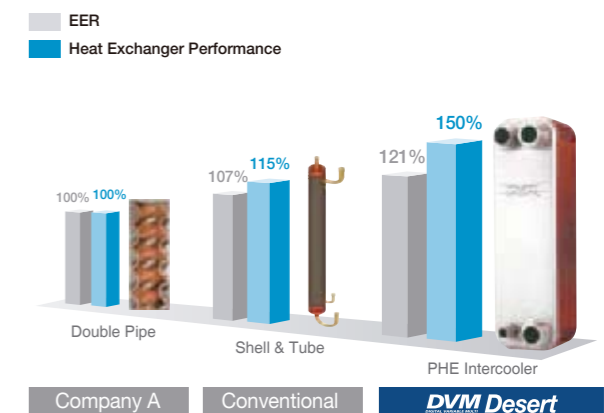
Digital Scroll Compressor

With its simple mechanical structure, the digital scroll compressor secures outstanding durability and flexibility and is resistant to internal overheating. This efficient and reliable compressor improves cooling performance and energy efficiency.



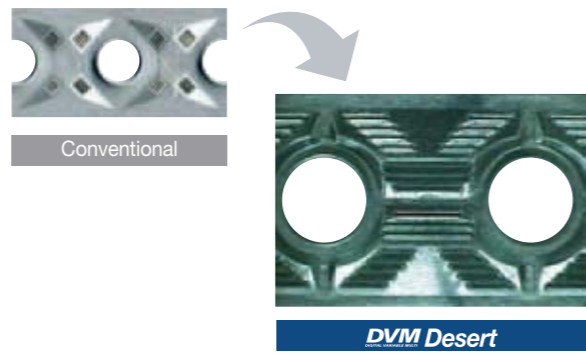
PHE (Plate Heat Exchanger)

DVM Desert has adopted Plate Heat Exchanger type intercooler to improve cooling efficiency. The energy efficiency with PHE has been improved by 35% compared to the conventional products with Shell & Tube type intercooler and 50% compared to the competitor's products with Double Pipe type intercooler.



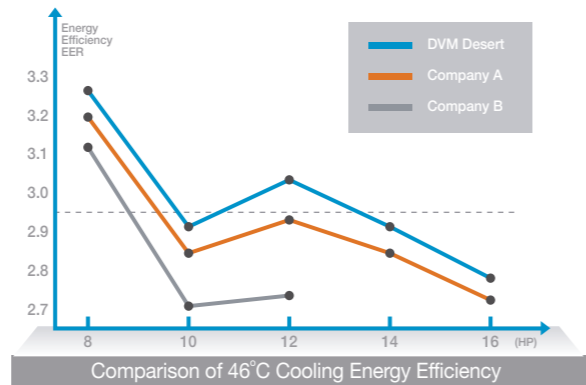
Bigger and Better Heat Exchanger

With its size which now has grown about 10% larger than the conventional product, the outdoor unit heat exchanger has also been greatly improved in its efficiency. The double fan system that increases air flow rate by 30% and the DVM chassis using a newly optimized fin design enhance the performance of the heat exchanger.



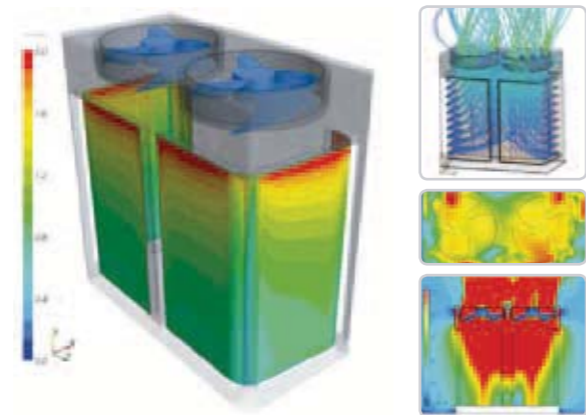
World-class Energy Efficiency in High Ambient Condition

DVM Desert has achieved the highest level of energy efficiency (EER) with an average of 2.95 in high ambient conditions, demonstrating more efficient and reliable performance against extreme outside temperatures.



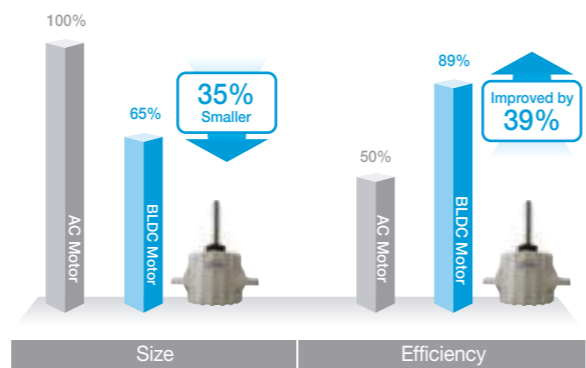
Optimized Air Discharge Profile

The air discharge profile within the Fan and the Fan Guard is optimized for faster heat exchange, which increases efficiency and provides faster cooling and heating.



Outdoor Unit BLDC Fan Motor

DVM Desert uses a BLDC motor, which is 35% smaller and 39% more efficient than conventional AC motors.



The World's Largest Capacity

Economical Installation Cost!

The single unit, which provides the world's largest module capacity, is ideal for larger buildings. Installing larger capacity modules will also save on installation costs since less equipment is required when you use units that offer greater capacities.



※Comparison is based on the installation of 48HP models.

World's Largest Module Capacity 64HP

Single piping installation is possible from mid-sized buildings to high-rise buildings.



Oil Balancing Control

DVM Desert uses oil balancing technology that ensures that oil distribution is stable and equal, even when multiple outdoor units are installed at various levels or distance. This allows flexible installation options for outdoor units.

Internal Oil Balancing Control

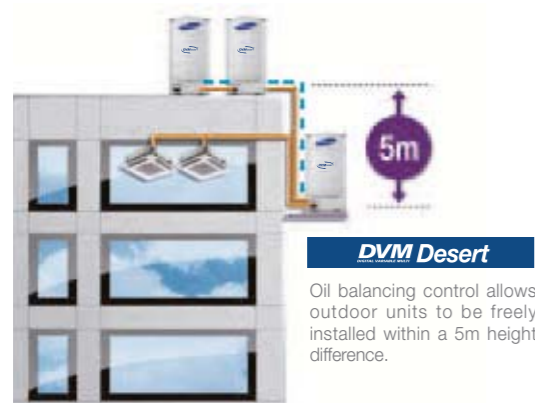


A stable and optimized amount of oil will be evenly balanced between the compressors within the outdoor units regardless of the compressors' On/Off status.

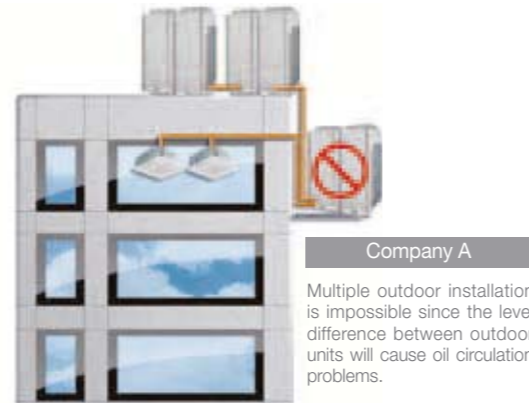
External Oil Balancing Control



The flow of the oil between the outdoor units within the module will be balanced, even when the outdoor units are installed away from each other or at different heights.



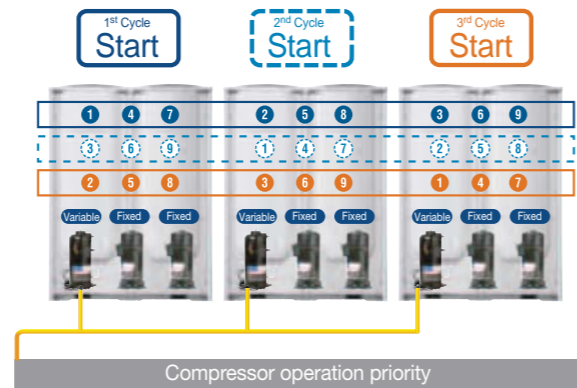
Oil balancing control allows outdoor units to be freely installed within a 5m height difference.



Multiple outdoor installation is impossible since the level difference between outdoor units will cause oil circulation problems.

Sequential Operation of Compressor

When the outdoor unit is not operating at full capacity, the compressor will start up the operation in sequence to prevent one particular compressor from overworking. This sequential operation for compressors will prolong the life of the compressor and ensure the reliability of performance.

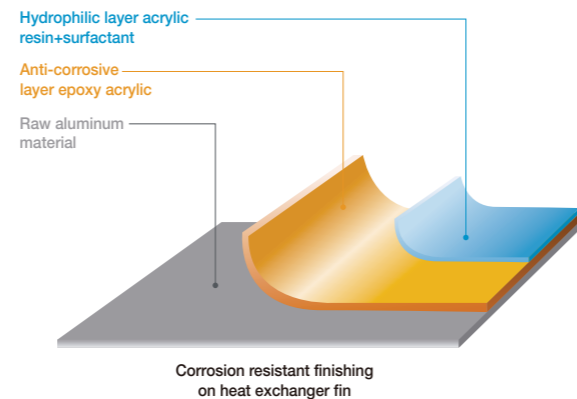


Corrosion & Frost Resistant

The highly hydrophilic coating facilitates efficient heat exchange and delays the onset of frost formation to provide consistent heating performance. An anti-corrosive coating also helps units to resist corrosion from the elements.

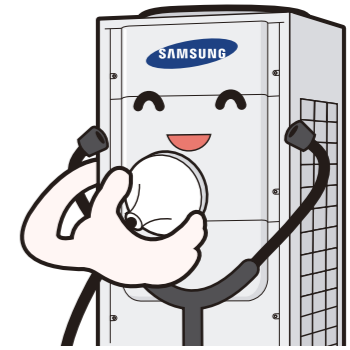
- Corrosion resistant with epoxy acrylic coating.
- Implemented corrosion resistant through acrylic+surfactant.

- 1 Hydrophilic
- 2 Heat Spread
- 3 Corrosion Resistance



Self-diagnosis Mode

DVM Desert monitors the operation status and displays an error code in response to any sign of abnormal activity, thus enabling you to easily solve the problem.



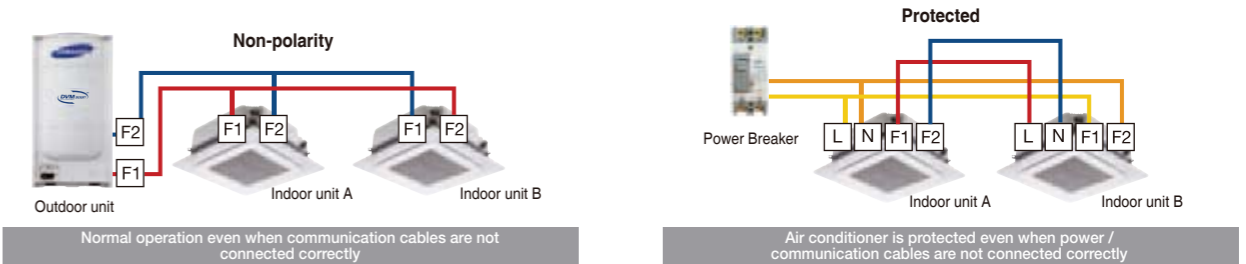
Pre-protection System

DVM Desert uses special internal fuse devices to protect the compressors from possible damage caused by overcurrent.



Easy and Safe Wiring Work

Non-polarity communication between indoor and outdoor units makes wiring work much easier. This is also safer since the outdoor unit will protect itself in case the communication cable is connected to a power terminal by mistake.



Longest Piping Length & Highest Elevation



Flexible Installation in High-rise Buildings

Installation is available with a maximum height level of 110m, which is equivalent to 20 stories (each story is considered to be a 5m high).

Flexible Installation over Wide Area

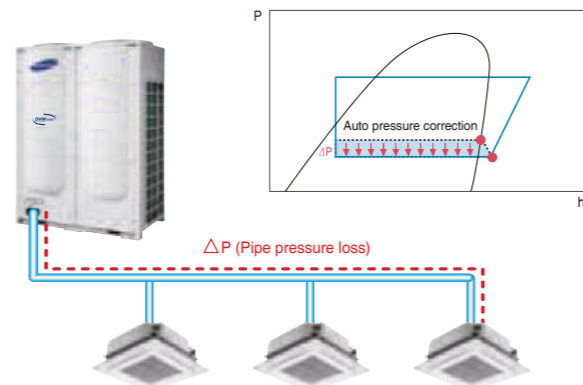
DVM Desert allows extended piping length up to 220m, and units will still give a great performance over wide areas.

Flexible Selection of Indoor Units

You can choose indoor units which are suitable for each space, offering various options in capacity and composition. You can also enjoy the indoor units more economically since each indoor unit can be individually controlled.

Optimized Refrigerant Distribution Control

When long piping is installed between the outdoor units and indoor units, the individual indoor units will use auto performance correction control technology and automatic refrigerant amount adjustment technology to secure balanced performance between the units.



Black box (Automatic Data Backup)

If a malfunction occurs with DVM Desert outdoor unit, it will automatically diagnose the problem and save the last 30 minutes of operation data. An optional accessory can be used to store operational data for over one year, which can be helpful in getting you quick and accurate repair service when you need it.



Refrigerant Pump-down and Pump-out

DVM Desert provides the refrigerant pump-down/out functions to facilitate easy and convenient replacement of the product, as well as additional installations and maintenance. In case of outdoor unit maintenance, it is possible for the refrigerant to recover into indoor units or pipes. It is also possible to recover refrigerant into outdoor units when moving indoor units or performing maintenance of pipes between indoor units and outdoor units.



Versatile Piping Connection with Various Knock-out Holes

The knock-out holes for piping, power, and communication cables are located in a variety of directions, allowing for more convenient installation of DVM Desert since the piping and cable direction can be freely selected from the front, left, and right side.



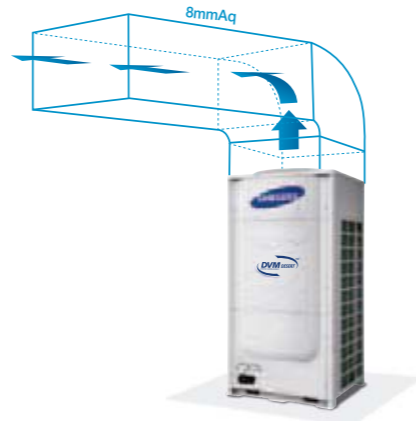
Easier Access for Status Check and Option Settings

Checking the outdoor unit status and setting option are easier and simpler since you don't need to remove the entire front cover, thanks to the small openings on the front side of the outdoor unit.



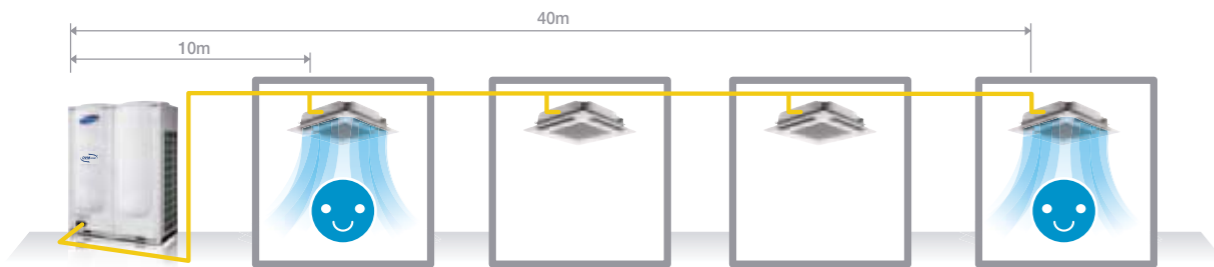
High External Static Pressure

To properly deal with unexpected various installation conditions, DVM Desert is designed to manage high external static pressures up to 8mmAq.

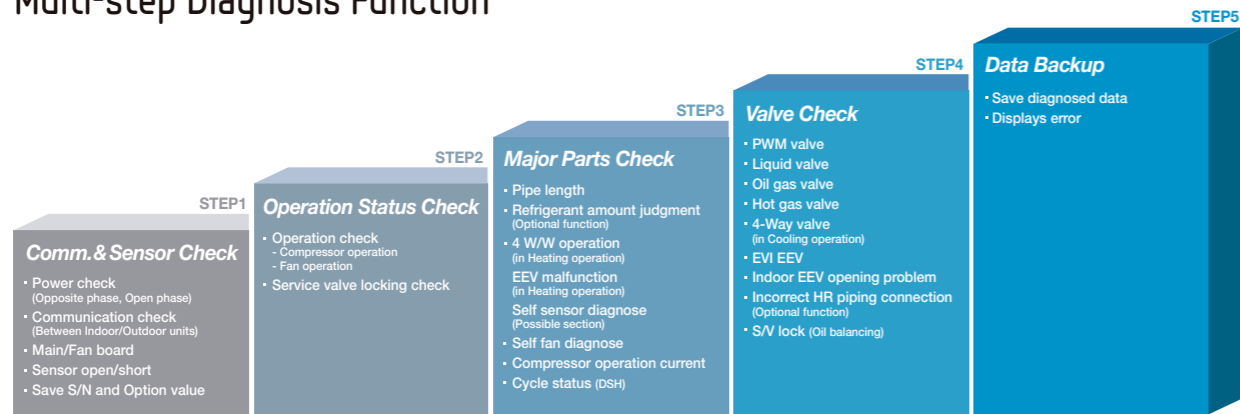


Automatic Pipe Length Recognition

The system provides evenly powerful cool and warm air, regardless of the distance.

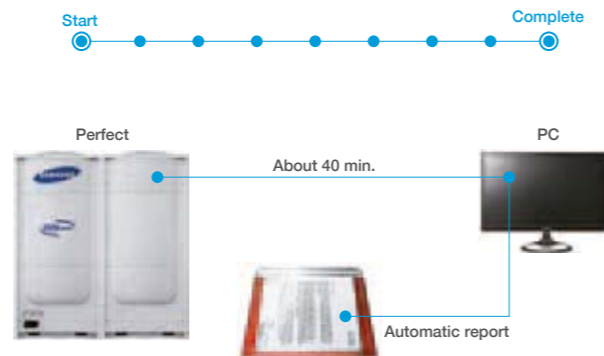


Multi-step Diagnosis Function



Automatic Report Function

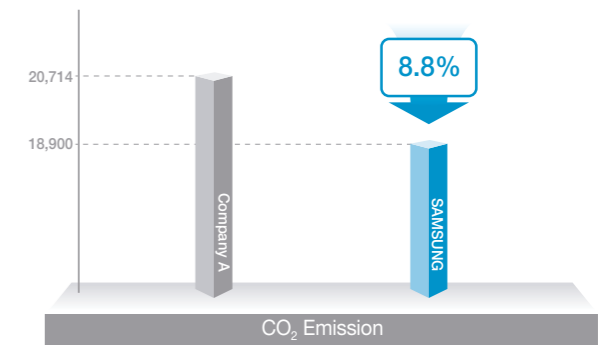
After installation, the DVM Desert self-checks the product status and automatically reports the results to a designated computer. You can easily examine and check all the results by selecting the check button while our competitor's products require the results to be separately checked.



Decreased CO₂ Emission

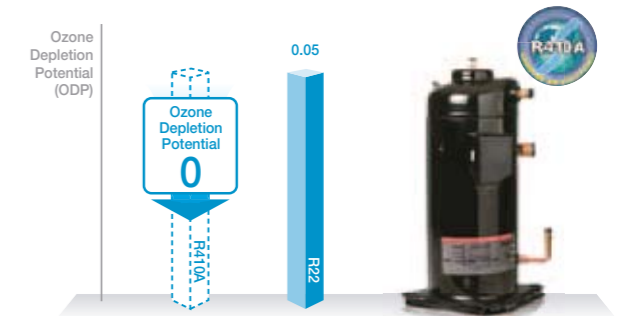
DVM Desert is a highly efficient product that adopts advanced eco-friendly technology to reduce carbon dioxide (CO₂) emissions.

- CO₂ emission level: Data based on 0.42kg/kWh
- Time period: 5 months (Nov ~ Mar, 3,600 hours)
- Data based on 18HP model heating



R410A Refrigerant

DVM Desert adopts a new compressor that is optimized with eco-friendly R410A refrigerant, which has a "0" ODP value, to minimize environmental pollution. This also improves refrigerant operation efficiency and performance.



Europe Eco-friendly RoHS Technology Certification

Samsung minimizes the use of toxic substances such as mercury, lead, and cadmium, attaining RoHS certification with its excellent eco-friendly technology.



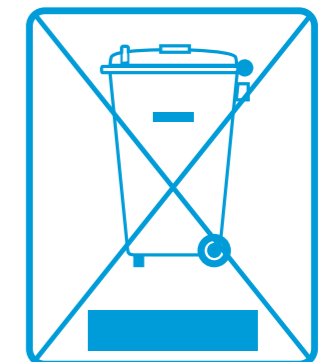
RoHS (Restriction of Hazardous Substances Directive)

RoHS sets eco-friendly regulations that ban the use of toxic substances, such as mercury, lead, and cadmium, that are obstacles in electronic recycling.



WEEE

SAMSUNG invests significant efforts to help save the environment and comply with the WEEE Directive by joining or establishing recycling schemes for each country.



Slim and Stable

DVM Slim

DIGITAL VARIABLE MULTI

DVM Slim is easy to install and maintain, and its compact footprint size means that it doesn't need much installation space. This slim outdoor unit raises the value of your space by visually harmonizing with interiors, making it the best air conditioning system for luxury high-rise apartment buildings.

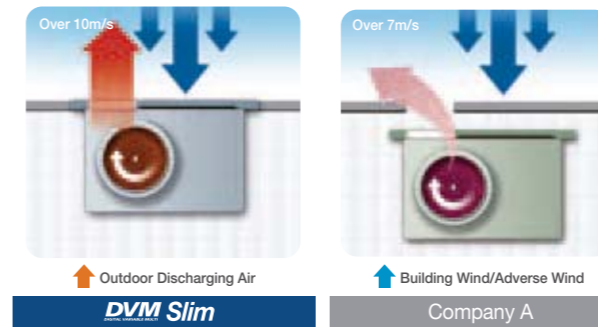
Features

- Powerful Discharge to the Front
- Compact Footprint Size
- Hermetically Sealed Outdoor System
- Compressor Noise Reduction
- No Electromagnetic Waves
- Easy Installation and Repairs



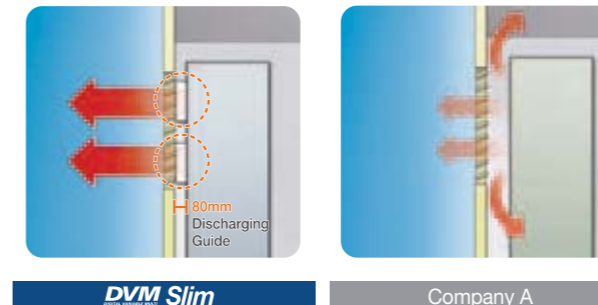
Slim and Stable DVM Slim

Powerful Discharge to the Front



Very Fast Discharged Air to the Extent of 10m/s

High buildings experience faster building winds, meaning there is a risk that discharged air from the unit can flow back into the heat exchanger again. DVM Slim prevents discharged air from flowing back into the heat exchanger to the extent of 10m/s.

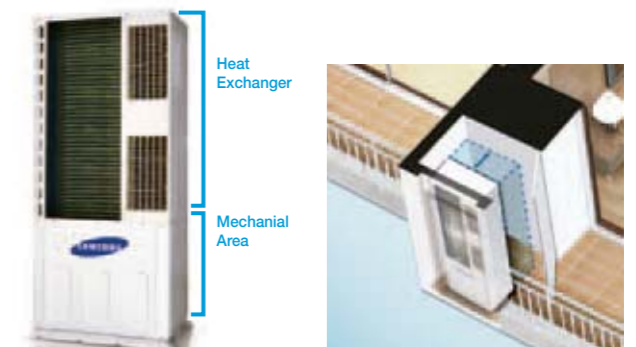


80mm Guide Slider Assembled inside the Unit for Discharged Air

The Guide Slider is able to lead air from the unit to be discharged without interference from the front surroundings.

Compact Footprint Size for Minimized Installation Space

DVM Slim has separated space for the heat exchanger and mechanical parts (such as compressor and piping).



Footprint Size for the Small Chassis: 500x750mm
Footprint Size for the Big Chassis: 500x880mm

Hermetically Sealed Outdoor System for Low Noise

The thoroughly sealed outdoor unit and 2 sirocco fans prevent operating noise and vibration from disturbing the living area.

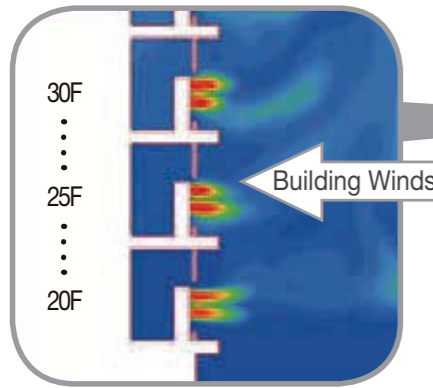


Building Winds Simulation for High-rise Building

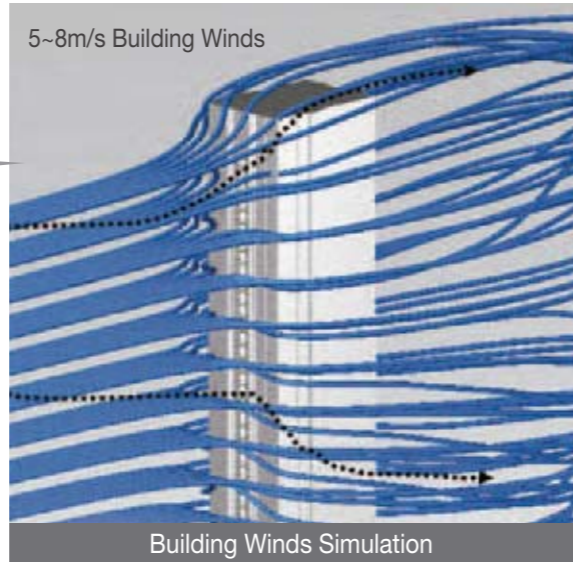
Tested Outdoor Unit Performance against Building Winds!

According to the outdoor unit performance test against building winds in high-rise buildings of over 20 stories, DVM Slim has been shown to discharge the powerful air freely, preventing the air from flowing back into the heat exchanger again. DVM Slim provides stable and proven cooling and heating performance with its strong discharging air of 10m/s.

10m/s Powerful Discharging Air



5~8m/s Building Winds



Compressor Noise Reduction

Noise insulation covers the compressor to reduce noise and prevent it from transferring into indoor areas.



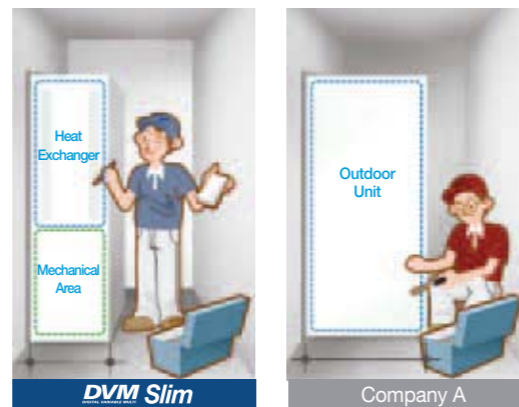
No Electromagnetic Waves in Digital Scroll Compressor

DVM Slim does not generate electromagnetic waves thanks to a digital scroll compressor. This means that your cell phone calls can maintain high quality without any electromagnetic interference.



Easy Installation and Repairs

The compartmentalized mechanical area enables easier and improved serviceability.



Harmonious Design

Unifying the design concept of all line-up from small capacity to large capacity models, DVM Slim fits into any interior space, regardless of the surrounding environments even on additional installation.



Economical and Efficient

DVM Mini

DIGITAL VARIABLE MULTI

A single DVM Mini outdoor unit can support up to 9 indoor units, and is an ideal air solution for large residential and small and medium-sized commercial spaces. This unit is very reliable since it uses the newest compressor technology and eco-friendly refrigerant. It is also an economical cooling and heating solution thanks to its outstanding energy efficiency.

Features

- Top-class Energy Efficiency
- Small Footprint and Volume
- Flexible Piping Design
- Low Noise Level



* Product specifications in the catalog can be changed without a prior notice because there is always an ongoing improvement on our product.

* DVM Mini can be controlled with control systems which is the same as DVM PLUS III and DVM PLUS IV.

Economical and Efficient DVM Mini

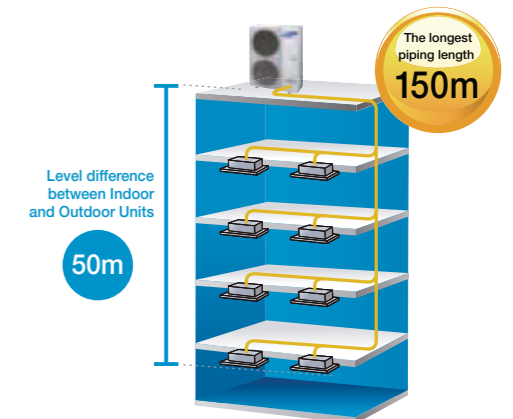
Small Footprint and Volume

Footprint of DVM Mini outdoor unit has been decreased by 11% and the volume has been decreased by 5%.



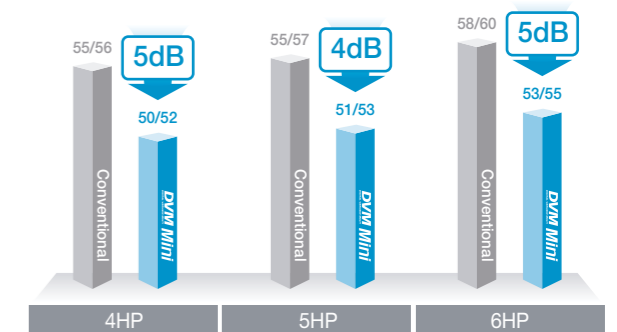
Flexible Piping Design

DVM Mini allows an extended piping length up to 150m, and maximum level difference of 50m. With such a great allowance, you can facilitate a variety of system designs.



Low Noise Level

DVM Mini gives less noise compared to our conventional models.



Universal Free Joint Multi

Free Joint Multi is the best solution for residential buildings requiring a flexible, efficient and reliable air conditioning system. A single Free Joint Multi outdoor unit can support a variety of up to 5 indoor units with minimal installation space, providing efficient cooling and heating operation in multiple areas.

Features

- Twin BLDC Compressors
- Sine Wave Controller
- Sound Insulator for the Compressor
- Easy Installation

* Universal Indoor Units
Y Series and P Series indoor units can be used with single outdoor unit.



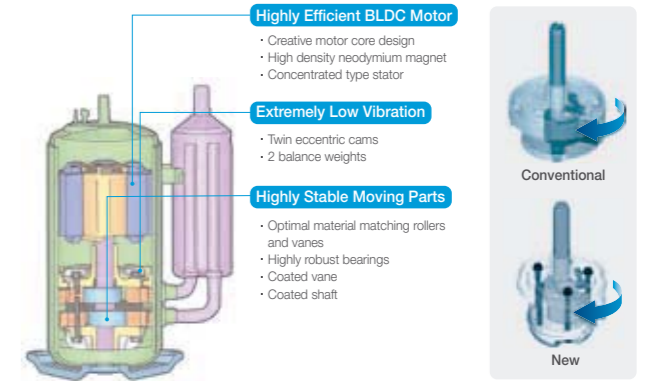
**One Outdoor Unit,
Multiple Indoor Units**

The FJM system's one outdoor unit supports up to 5 indoor units, providing a variety of choices of indoor units to form systems that are ideal for large residential area.

Universal Free Joint Multi

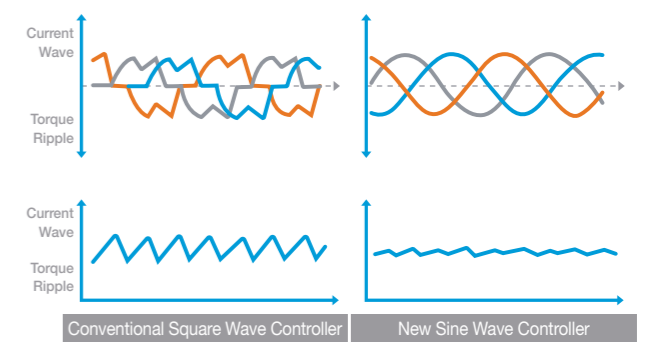
Twin BLDC Compressors

FJM outdoor unit has adopted Twin BLDC compressors with highly stable moving parts which reduce torque variation by 70% compared to the conventional Single BLDC compressor.



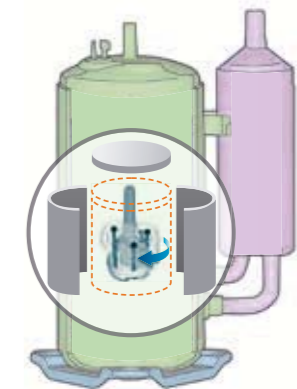
Sine Wave Controller

All Samsung FJM models have adopted a newly developed Sine Wave Controller. Smoother current waves result in a soft acoustic quality and overall noise reduction.



Sound Insulator for the Compressor

The double layered sound insulation material fully covers the compressor to absorb and minimize the noise for more quiet operation.



Easy Installation

This one button auto addressing solution makes installation easier for users to perform.



Energy Saving

CAC SINGLE

CEILING AIR CONDITIONER

CAC SINGLE is a smart choice for saving both money and energy. This economical outdoor unit employs advanced technologies to minimize waste and improve efficiency. By adopting smart inverter technology, CAC SINGLE not only offers silent operation, but it also provides outstanding cooling and heating performance that is faster than conventional products.

Features

- World-class Energy Efficiency
- Simultaneous On/Off Function
- Smaller and Lighter Unit
- Flexible Pipe Installation
- Energy Cost Saving
- Wide Temperature Performance
- Comfortable Temperature
- Fast Cooling and Heating



Energy Saving CAC SINGLE

World-class Energy Efficiency

Smart inverter technology gives you powerful, quick cooling and heating with minimal electricity consumption, which means that you save money and reduce energy waste.

1 All A/A Grade

All 4Way Cassette S indoor unit models have earned an A/A energy efficiency grade in achieving world-class energy efficiency: this means improved cooling and heating performance while reducing your energy costs.

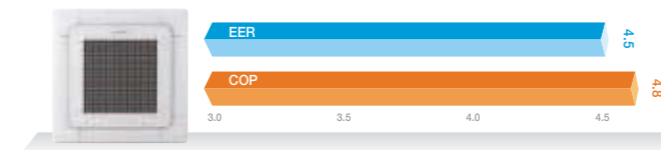
2 Improved Compressor

Smart inverter outdoor unit has adopted a better energy efficiency compressor that remarkably reduces energy consumption. This highly efficient compressor has achieved 4.8 COP for heating and 4.5 EER for cooling.

3 Improved Propeller Fan

Large two-blade propeller fans have been applied to the smart inverter outdoor units to increase efficiency by 10% and achieve a lighter weight than models with three-blade fans.

Energy efficiency class of the unit in cooling mode:		Energy efficiency class of the unit in heating mode:	
A	EER > 3.20	A	COP > 3.60
B	3.20 ≥ EER > 3.00	B	3.60 ≥ COP > 3.40
C	3.00 ≥ EER > 2.80	C	3.40 ≥ COP > 3.20
D	2.80 ≥ EER > 2.60	D	3.20 ≥ COP > 2.80
E	2.60 ≥ EER > 2.40	E	2.80 ≥ COP > 2.60
F	2.40 ≥ EER > 2.20	F	2.60 ≥ COP > 2.40
G	2.20 ≥ EER	G	2.40 ≥ COP

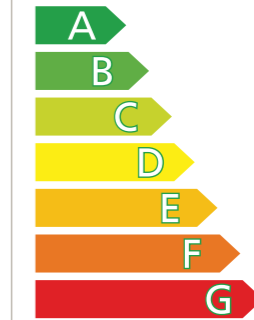


* Flagship 10kW

Energy

Manufacturer
Outside unit
Inside unit

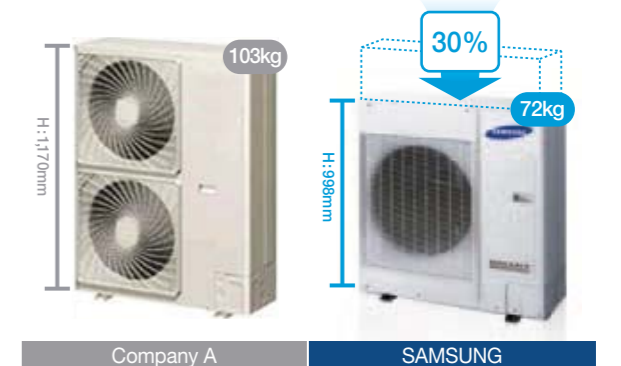
More efficient



Less efficient

Smaller and Lighter

Samsung new smart inverter outdoor unit is smaller and lighter than our competitor's products. Our products are much easier to install since they are 25% lighter in weight, and are lower in height thanks to the single fan structure. Although our units are smaller and lighter, they offer equal performance as our competitor's 2 fan structured outdoor units.



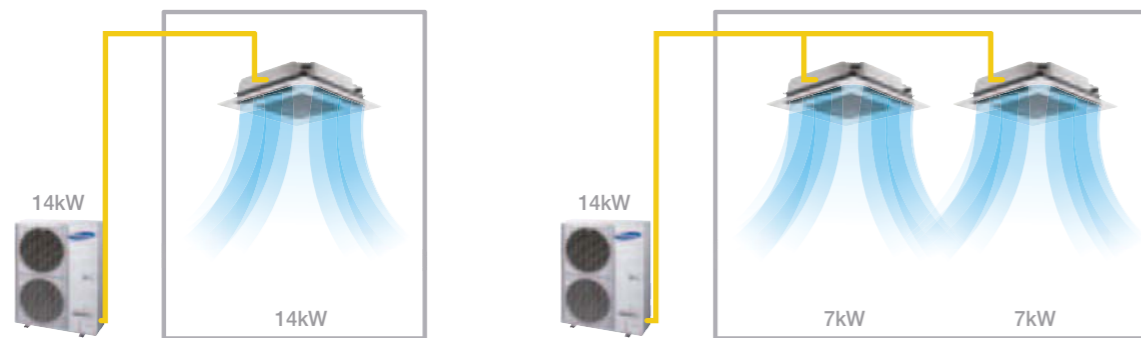
* 10kW Deluxe Model

Simultaneous On/Off Function

Instead of just one indoor unit, you can connect two 7kW 4Way Cassette S indoor units with a single 14kW Smart inverter outdoor unit for more efficient cooling and heating. The indoor units are simultaneously operated and controlled as one cycle within the same mode via one remote controller in up to 4 rooms. This system is ideal for spaces requiring multiple indoor units such as open-plan offices or shops.

Outdoor Unit Capacity	2 Rooms	3 Rooms	4 Rooms
7.1kW	3.5 + 3.5		
10kW	5.2 + 5.2		
12.5kW	6.0 + 6.0	5.2 + 5.2 + 5.2	
14kW	7.1 + 7.1	5.2 + 5.2 + 5.2	3.5 + 3.5 + 3.5 + 3.5

* 4Way and Mini 4Way Cassette unit can only be connected.



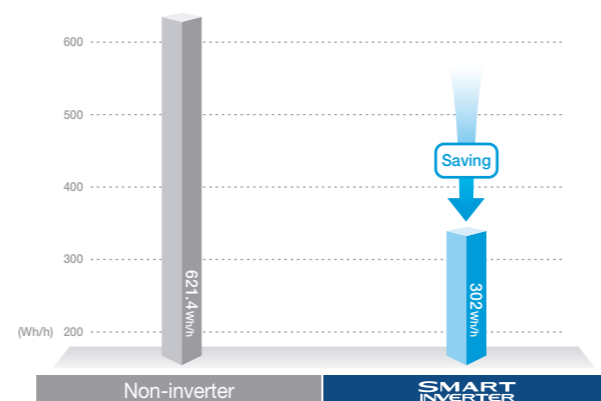
Flexible Pipe Installation

The pipe direction of our outdoor units can be freely selected as required. The internal pipe connection ports allow 4 different available pipe directions, meaning that the unit looks neater and organized once the pipe installation is done.



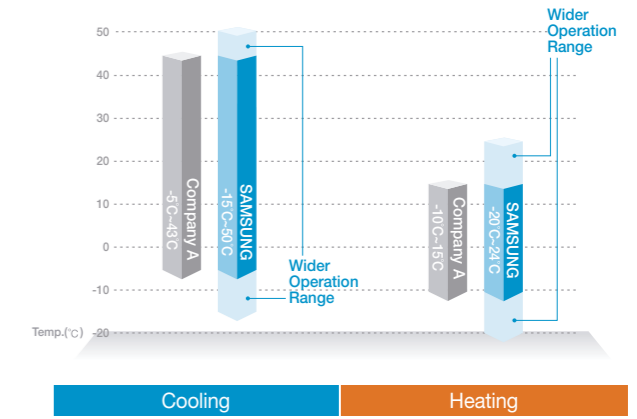
Save up to 50% in Energy Costs

After reaching the set temperature, the smart inverter air conditioner changes its operation mode to economical. By avoiding inefficient and frequent switching on and off of the compressor, the smart inverter saves up to 50% in energy consumption compared to non-inverter air conditioners.



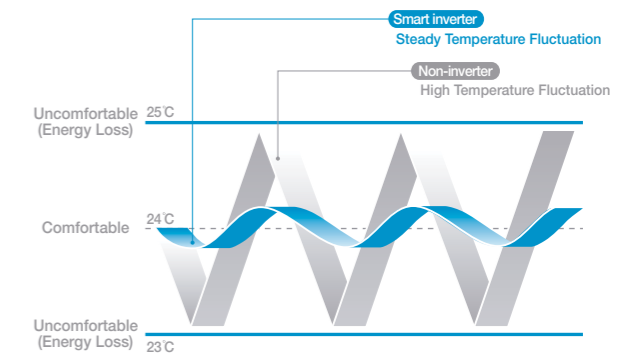
Wide Temperature Performance

When you use a Samsung air conditioner, there's no need to worry about using an additional unit for severe temperatures. Our units have a wider temperature allowance, meaning that they can cool in the burning heat of 50°C or provide heat in the freezing cold of -20°C to provide comfort in your home.



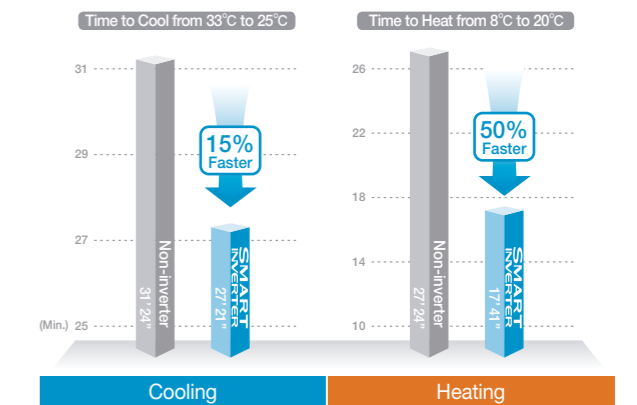
Comfortable Temperature

Smart inverter air conditioner works at maximum capacity at start-up. As soon as the temperature reaches the desired/set temperature, it performs fine adjustments to cope with any changes. This means that there is less temperature fluctuation, and comfort can be achieved in a matter of minutes.



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.





Indoor Unit

Enjoy the Beauty

Cassette Type

Offered in a variety of patterns, Samsung cassette type indoor units give the finishing touch to your interior design. We also use the most advanced technologies to offer optimized comfort and pleasure.



Duct Type

Duct type indoor units visually blend well into ceilings, enhancing the beauty of your interior space with their compact and slim size that gives you flexible installation options.



Wall-Mounted Type

With their stylish and sophisticated designs, Samsung wall-mounted type air conditioners offer cool, clean, and healthy freshness in everyday living that also optimizes your comfort.



Console & Ceiling Type

Samsung console and ceiling type air conditioners create a big improvement in air conditioning quality by using an indoor unit both on the floor and ceiling to allow more efficient and convenient installation.



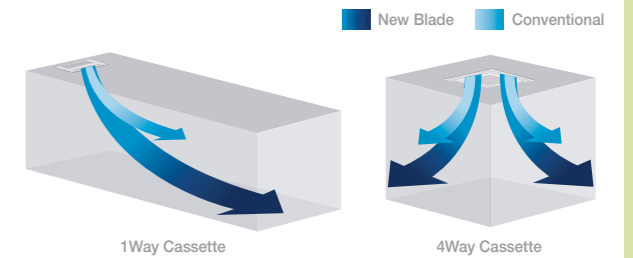
Cassette Type | Icon Description

Powerful Airflow



Wide Blade

Wide blades in the indoor unit deliver cool or warm air at greater distances to provide even cooling and heating throughout the room.

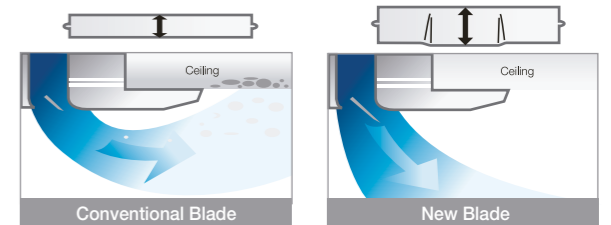


Ceiling Dust Prevention



NO! Dust

The newly designed panel will control air direction in a way to avoid contact with the ceiling. This new design will prevent dust from accumulating on the ceiling after long periods of operation, keeping your interior space cleaner than ever.

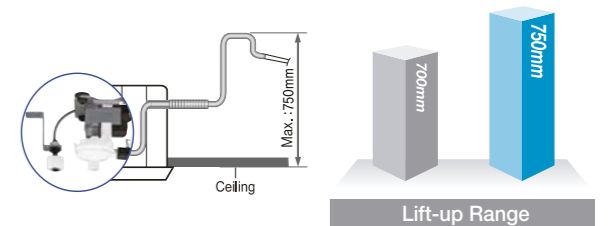


High Lift-up Drain Pump



High Lift-up

The lift-up drain pump lifts condensed water up to 750mm compared to our competitor's limit of 700mm, allowing for more flexible and convenient installation.

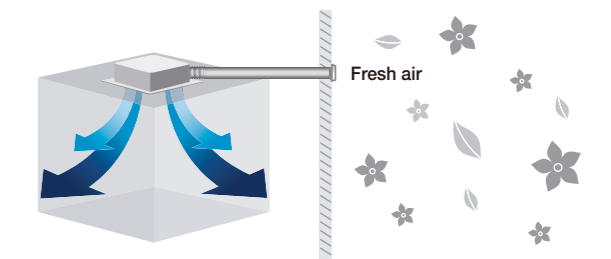


Fresh Air Intake



Fresh Air

Fresh air can enter through the cassette unit so that you can enjoy even fresher air in your room.

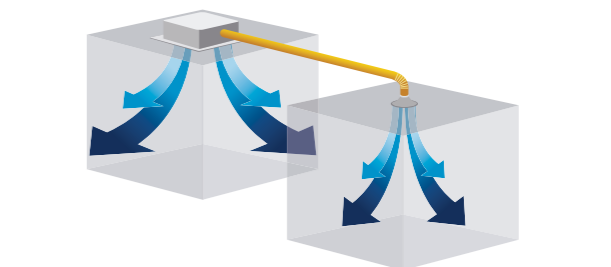


Sub Duct



Sub Duct

Sub Duct enables you to use the same air conditioner unit to cool an additional smaller space nearby. (A cassette unit is fitted with a knockout component to accommodate for this.)



Smart and Stylish

4Way Cassette S

With its newly improved design, 4Way Cassette S brings the sophisticated and clean atmosphere and adds a sense of class to your space. Not only is this unit attractively designed, but it also uses the advanced technologies to optimize your comfort in any environment. Feel the power and enjoy the beauty with 4Way Cassette S.

General features



Smart and Stylish 4Way Cassette S

Stylish and Aesthetic Panel

4Way Cassette S supports two different pattern designs of panels. You can select between the Waffle and Classic pattern, depending on your interior's look or personal preference.



Simple Display

The simple display design with its rounded corners adds a neat and tidy feeling to your interior.



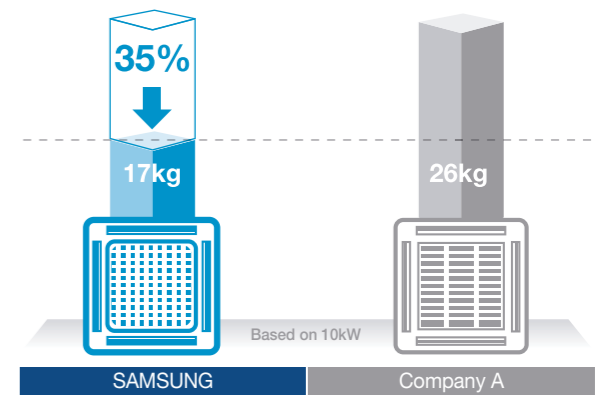
Neat and Clean Design

4Way Cassette S uses a new neat and clean design. The completely hermetic blade structure keeps the indoor unit clean since it prevents dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight once the blade is shut, thus improving the unit's appearance.



Light yet Robust Design

Samsung 4Way Cassette S indoor unit is now lighter in weight at 17kg. It is the lightest indoor unit in the industry, about 35% lighter than our competitor's products.



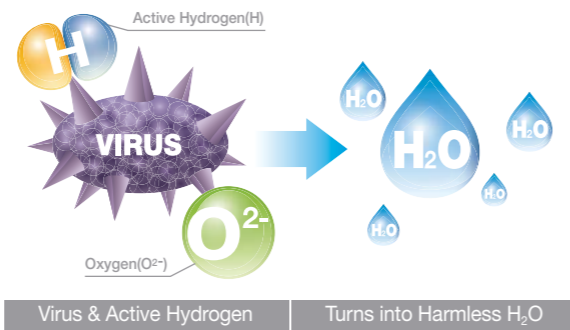
S-Plasma ion (Optional): Healthy Air Provider

S-Plasma ion device eliminates airborne contaminants and creates even healthier air for your environments. This optional device can be easily installed by simply inserting S-Plasma ion kit into the indoor unit.



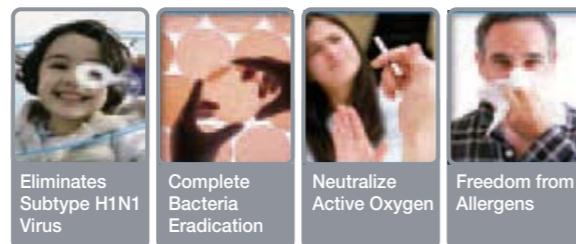
Operation & Algorithm

S-Plasma ion device generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen (OH⁻ radical) in the air by turning them into harmless H₂O.



Benefits of S-Plasma ion

- Elimination of airborne virus & bacteria (Subtype H1N1)
- Complete eradication of bacteria
- Relief of allergies by eradicating airborne allergens
- Neutralization of OH⁻ radical (as known as active oxygen)



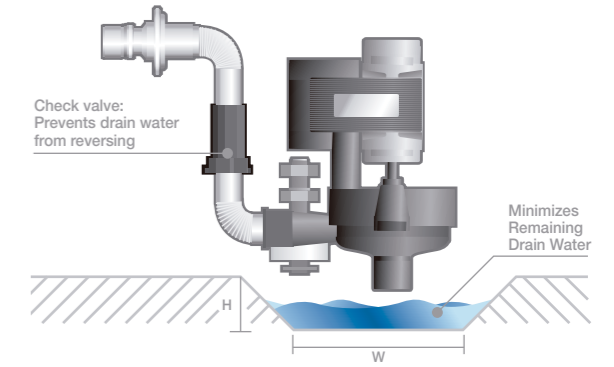
Individual Blade Control

By using new remote controller, the opening angles of the 4 blades can be individually set at the same or different angles within a 32°-65° range for more efficient cooling.



No Overflowing Drain Water

The check valve on the drain pump prevents drained water from flowing backward into the drain pan. This minimizes the the drain pan's water level so that you will never have to worry about water stagnation or overflowing drain water that could drip into your interior.



Easy Leveling

Each corner portion of the panel is detachable: this makes it easier for you to adjust the height, and makes installation and leveling much easier and quicker.



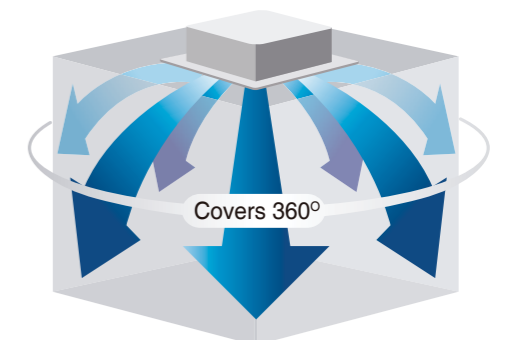
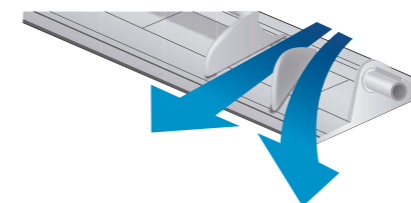
Easy Blade Cleaning

4Way Cassette S indoor units have detachable air flow blades so that you don't need to remove the entire panel to clean the blades.



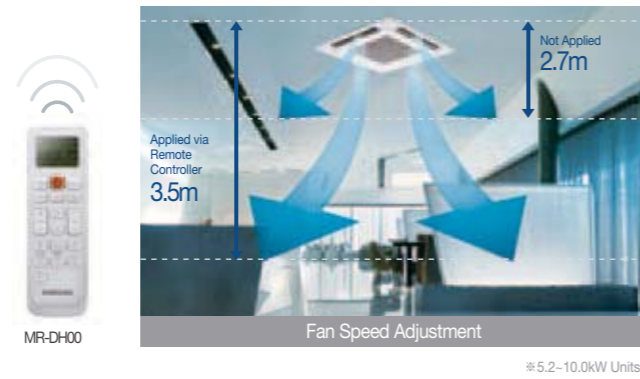
Surround Air Flow

The 4-way outlet can cool every portion of your interior. The new and practical design of the blades minimizes blind spots at the corners of the panel, and can almost cover a full 360° around the indoor unit.



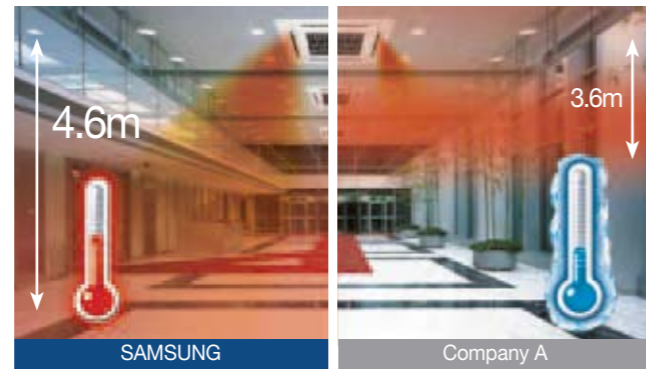
Fan Speed Adjustment for High Ceiling

The optimum fan speed for high ceiling can be achieved just by using the remote controller without adjusting the DIP switch on the indoor unit's PCB. The fan speed adjustment function provides evenly cool and warm air throughout space with high ceiling of up to 3.5m.



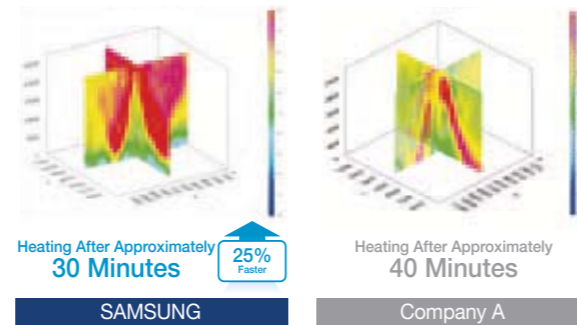
High Ceiling Mode

The high ceiling mode allows indoor units to provide even more powerful airflow throughout your space. This mode enlarges the coverage area of the airflow up to a height of 4.6m.



Quick Cooling and Heating

Samsung 4Way Cassette S indoor unit achieves the desired set temperature much faster than our competitor's products.



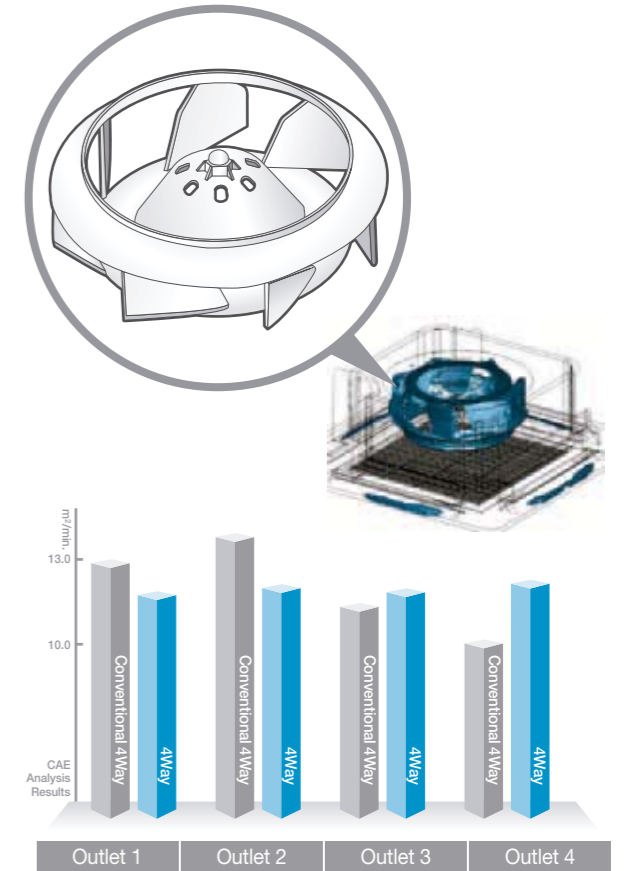
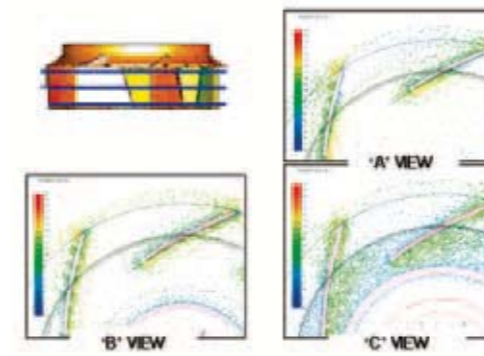
Turbo Fan

1 Silent Operation

Imagine a room of cool calmness. The aerodynamically designed Turbo Fan minimizes noise from the turbulence of blade movement, meaning that our units make less noise than conventional models.

2 Uniform Distribution

Turbo Fan with wide blades provides extreme cooling and heating power from 4 separate outlets so the entire room cools down or warms up faster. This unit can extend comfort to every nook and cranny.



Stable and Silent

4Way Cassette

Distributing cool and warm air evenly to all corners of your space, 4Way Cassette provides optimized comfort with its powerful airflow and stylish panel design. By adopting the turbo fan, 4Way Cassette achieves quiet and stable operation in any environment.

General features



Stable and Silent 4Way Cassette

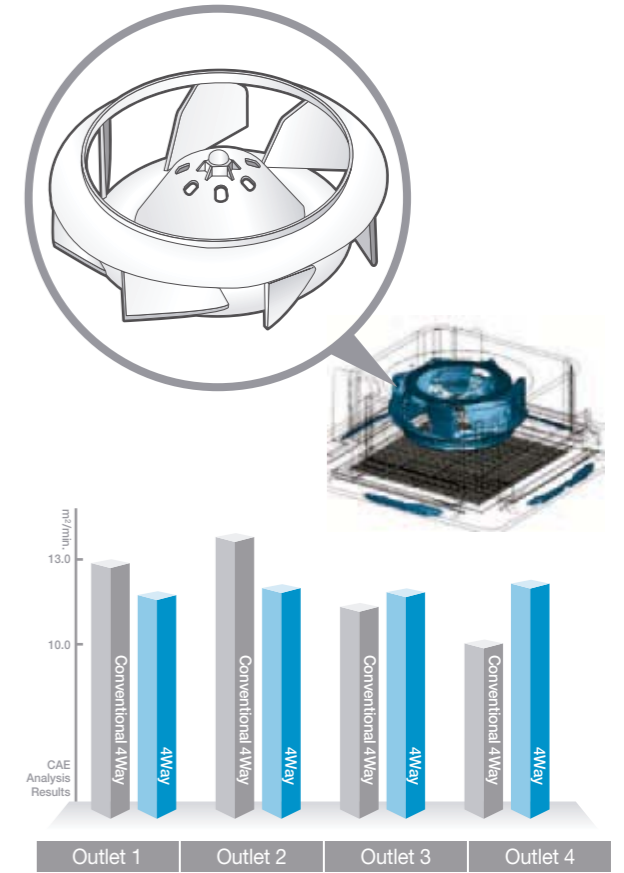
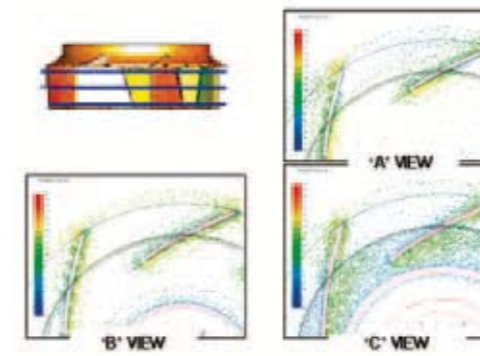
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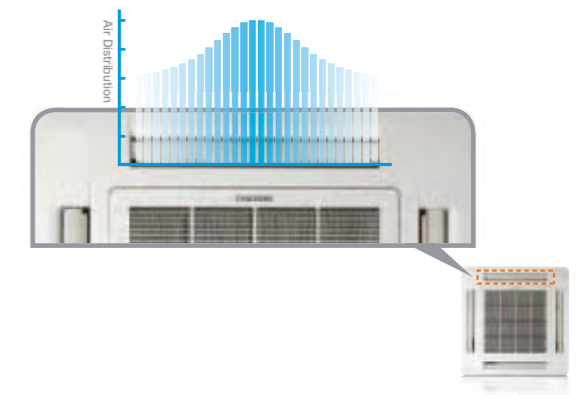
2 Uniform Distribution

Turbo Fan with wide blades provides extreme cooling and heating power from 4 separate outlets so the entire room cools down or warms up faster. This unit can extend comfort to every nook and cranny.



Efficient Cooling

The 3-dimensional shaped blade, which has a worldwide patent, is able to evenly spread cool or warm air at greater distances, meaning that comfort can reach every inch of your interior space.



Easy Leveling

Each corner portion of the panel is detachable, which allows easier access to adjust the height. This makes leveling and installation much easier and quicker for you.



Detachable corners make installation and height adjustments much easier.

Enhanced and Powerful

Mini 4Way Cassette S

The advanced Mini 4Way Cassette S comes in a variety of patterns to better match your interior design. The stylish cassette visually harmonizes with your space, and its enhanced technologies provide powerful and efficient cooling and heating performance, making it a very dependable and practical air conditioning solution.

General features



Enhanced and Powerful Mini 4Way Cassette S

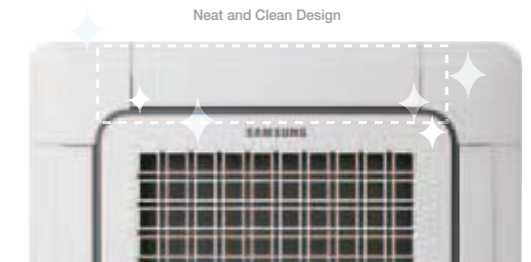
Stylish and Aesthetic Panel

Mini 4Way Cassette S supports a unique and stylish panel with a simple rounded corner design. This aesthetic panel blends well into your interior design and adds elegance to your space's ambience.



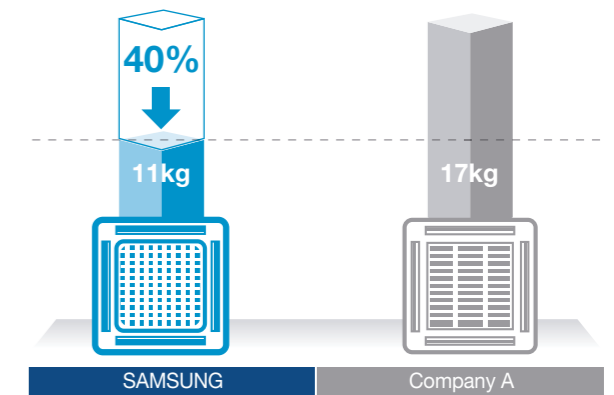
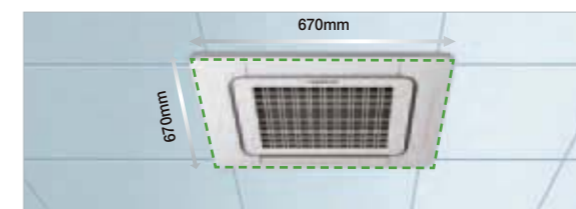
Neat and Clean Design

Mini 4Way Cassette S uses a new neat and clean design. The completely hermetic blade structure keeps the indoor unit clean since it prevents dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight once the blade is shut, thus improving the unit's appearance.



Compact and Light Unit

Mini 4Way Cassette S can be easily installed on one standard ceiling tile (600Wx600D) with its lightest weight about 40% lighter than the competitor's.



Individual Blade Control

By using remote controller, the opening angles of the 4 blades can be individually set at the same or different angles within a 32°-65° range for more efficient cooling.



S-Plasma ion (Optional): Healthy Air Provider

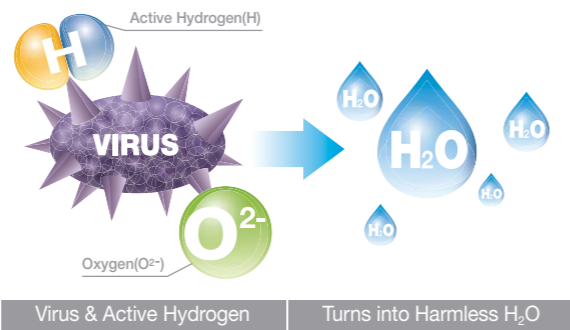
S-Plasma ion device eliminates airborne contaminants and creates even healthier air for your environments. This optional device can be easily installed by simply inserting S-Plasma ion kit into the indoor unit.



S-Plasma ion Kit

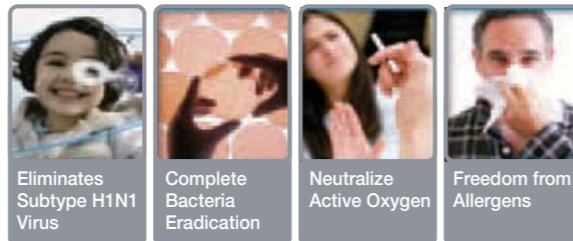
Operation & Algorithm

S-Plasma ion device generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen (OH⁻ radical) in the air by turning them into harmless H₂O.



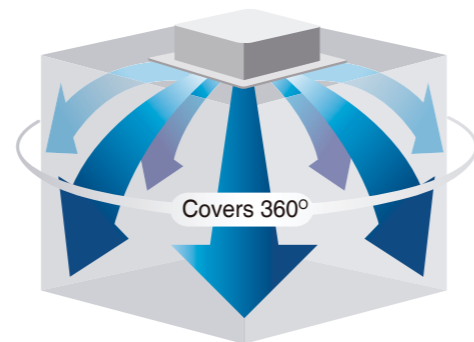
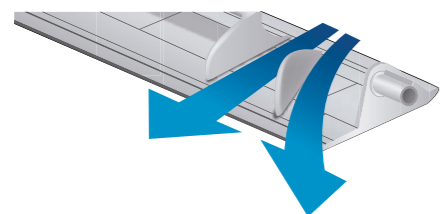
Benefits of S-Plasma ion

- Elimination of airborne virus & bacteria (Subtype H1N1)
- Complete eradication of bacteria
- Relief of allergies by eradicating airborne allergens
- Neutralization of OH⁻ radical (as known as active oxygen)



Surround Air Flow

The 4-way outlet can cool every portion of your interior. The new and practical design of the blades minimizes blind spots at the corners of the panel, and can almost cover a full 360° around the indoor unit.



MDS; Motion Detect Sensor (Optional)

The world's first MDS for Mini 4Way Cassette S creates the ideal environment, saving energy by providing the optimized amount of airflow when needed.

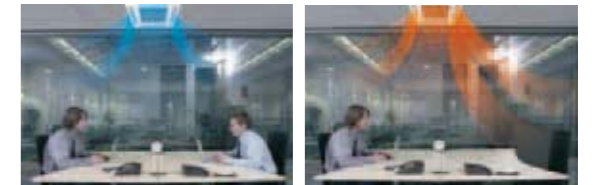
1 Energy Saving On / Off Function

MDS detects when the user is absent, automatically stopping the air conditioning operation. It also automatically sets operation patterns to maximize energy efficiency.



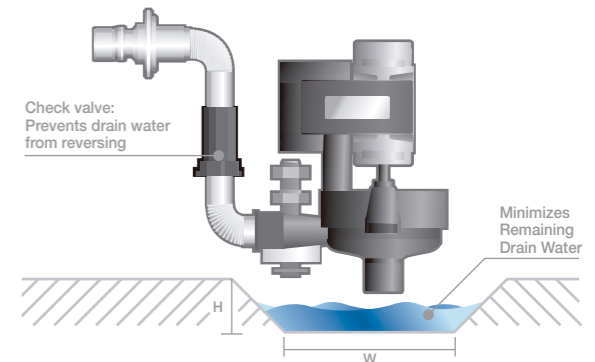
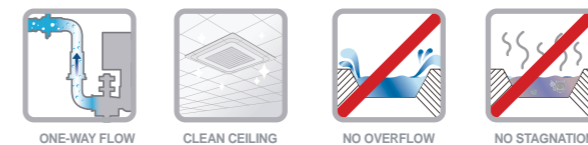
2 Pleasant and Comfortable Air

MDS enables the indoor unit to avoid directly providing airflow to people and reduces the difference of thermal sensation in the body by detecting the temperature around floor.



No Overflowing Drain Water

The check valve on the drain pump prevents drained water from flowing backward into the drain pan. This minimizes the the drain pan's water level so that you will never have to worry about water stagnation or overflowing drain water that could drip into your interior.



Easy Blade Cleaning

Mini 4Way Cassette S indoor units have detachable air flow blades so that you don't need to remove the entire panel to clean the blades.



Ideal and Efficient

Mini 4Way Cassette

Mini 4Way Cassette is an ideal air conditioning option for narrow ceiling spaces with its slim and compact size, which makes installation much easier and faster. Blending in with interior spaces, this compact yet powerful unit maintains an optimum indoor temperature through fan speed adjustment to maximize your comfort.

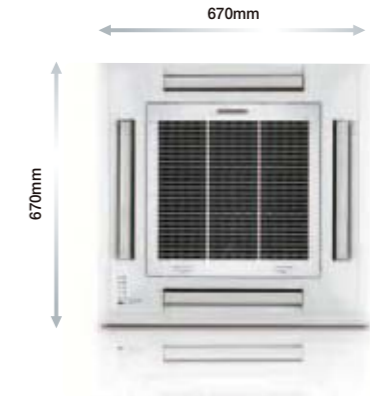
General features



Ideal and Efficient Mini 4Way Cassette

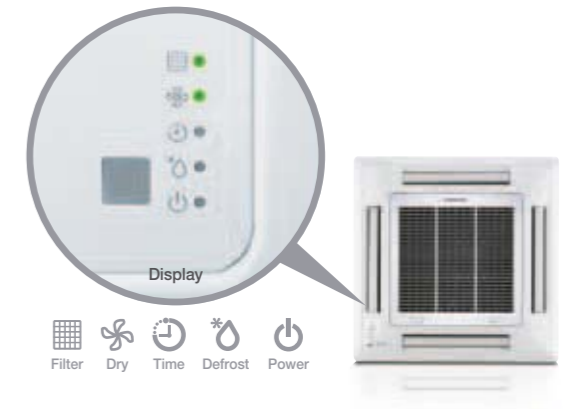
Ideal Compact Size

Mini 4Way Cassette air conditioner can be installed on one standard ceiling tile (600Wx600D), which can reduce installation time.



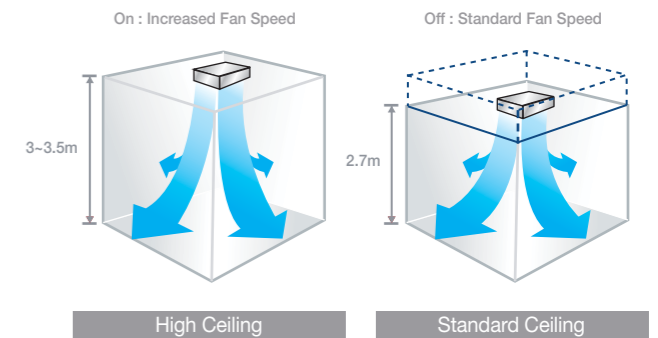
Self-diagnosis Mode

In case of unit malfunction, the indoor unit operates the self-diagnosis mode to display an error code with LED light, thus enabling you to easily resolve the problem.



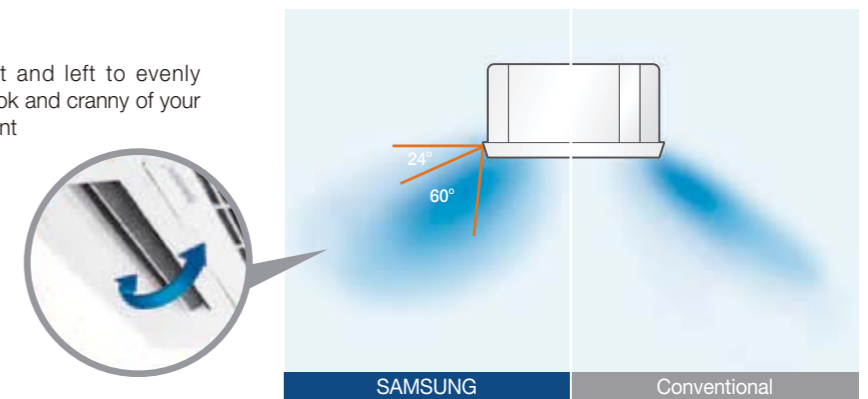
Fan Speed Adjustment

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



Auto Surround Swing

The 4-way outlet blades swing right and left to evenly distribute cool and warm air to every nook and cranny of your space, keeping your environment pleasant and comfortable.



Slim and Quiet

Slim 1Way Cassette

Slim and rounded design of Slim 1Way Cassette adds a sense of unity with ceilings, resulting in a clean and neat appearance. Slim 1Way Cassette is an optimized air solution that suits your both practical and aesthetic needs with its simple design and efficient cooling system.

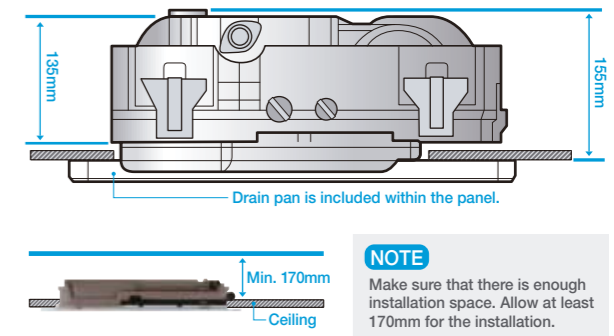
General features



Slim and Quiet Slim 1Way Cassette

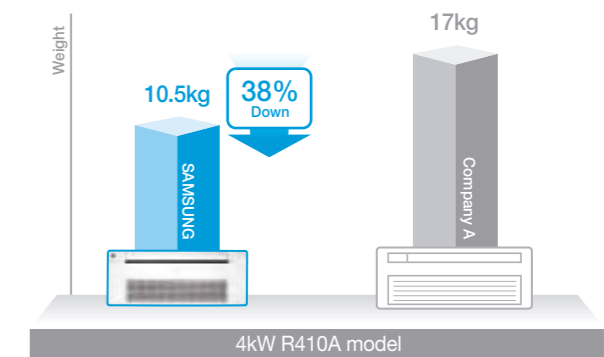
Slim and Compact Design

Samsung Slim 1Way Cassette indoor unit is only 135mm thick and can be installed on ceilings, taking up little space.



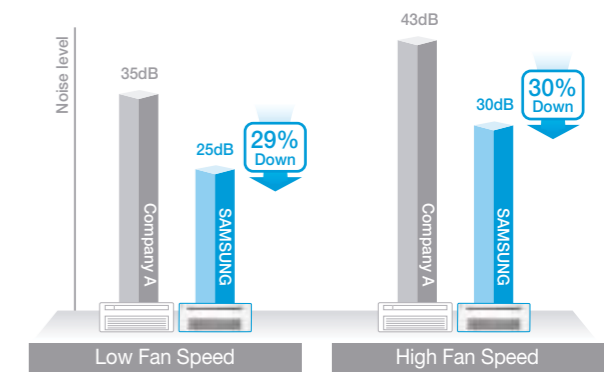
Lighter Indoor Unit

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



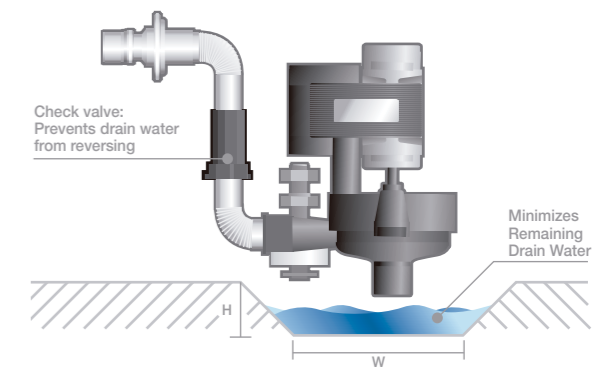
Quiet Operation

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



No Overflowing Drain Water

The check valve on the drain pump prevents drained water from flowing backward into the drain pan. This minimizes the the drain pan's water level so that you will never have to worry about water stagnation or overflowing drain water that could drip into your interior space.



Compact but Powerful

2Way Cassette

2Way Cassette is a perfect fit for long and narrow places with limited installation space, thanks to its compact and slim size. The unit operates with air coming out from two sides, providing powerful and fast cooling and heating performance to create a pleasant environment for you.

General features



High Lift-up



Fresh Air



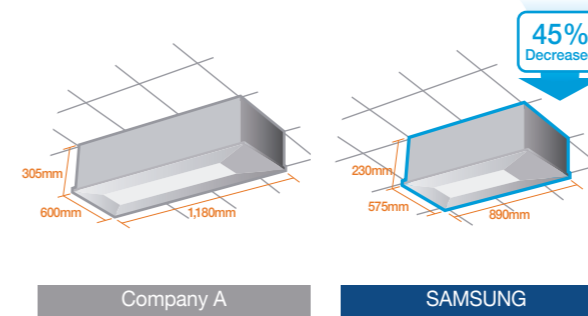
Compact but Powerful 2Way Cassette

Ideal for Long and Narrow Places

With its slim and compact size, 2Way Cassette indoor unit is ideal air solution for long and narrow places such as corridor and classroom. This unit saves space up to 30% compared to conventional 4Way cassette as well as blends into the interior design.

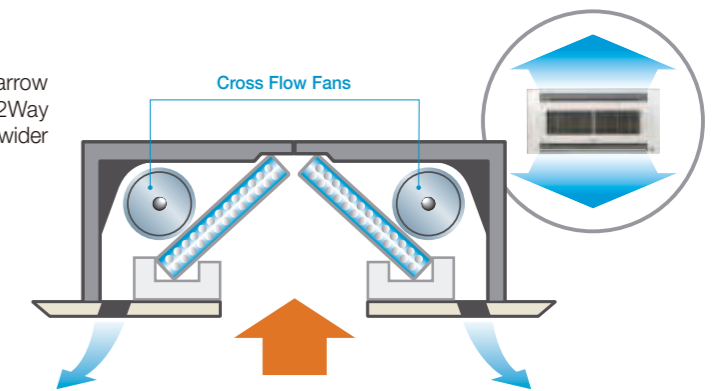
Small Size, Big Performance

2Way Cassette indoor unit is now 45% smaller than our competitor's models, making it even easier to incorporate into building design.



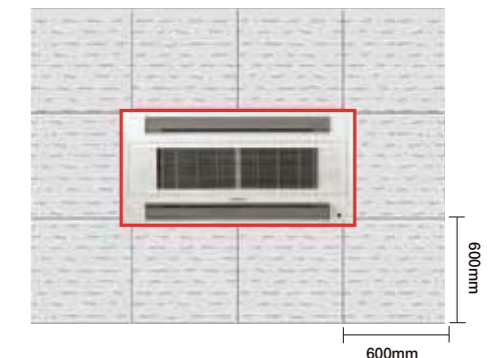
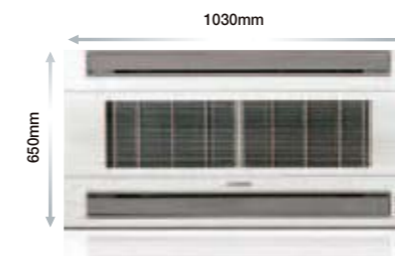
Twin Cross Flow Fan

2Way Cassette type unit is a perfect fit for long and narrow rectangular spaces. The Twin Cross Flow Fan inside 2Way Cassette will spread cool or warm air even further and wider with less noise.



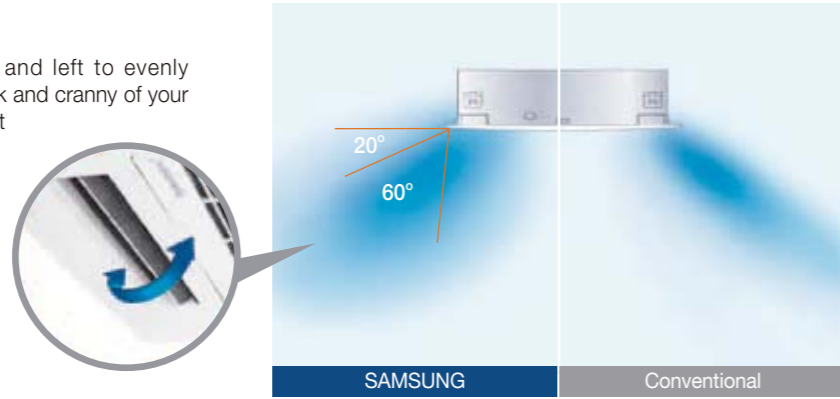
Standard formula for Easy Installation

The dimensions of 2Way Cassette air conditioner allow for easy installation into standard ceiling grids (600Wx600D) in such a way that everything just falls into place.



Auto Surround Swing

The 2-way outlet blades swing right and left to evenly distribute cool and warm air to every nook and cranny of your space, keeping your environment pleasant and comfortable.



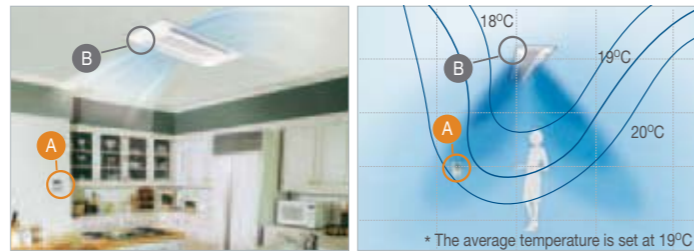
Self-diagnosis Mode

In case of unit malfunction, the indoor unit operates the self-diagnosis mode to display an error code with LED light, thus enabling you to easily resolve the problem.



Optimum Temperature Control

The Optimum Temperature Control function detects and minimizes the temperature difference between the top and bottom of the space to maintain an optimum temperature. You can set the temperature detection option with indoor unit or optional remote controller (MWR-WE00).



- (A): Temperature set by remote controller
- (B): Temperature set by indoor unit
- Average of (A+B): The average temperature

Duct Type | Icon Description

Anti-virus Filter



Anti-virus Filter

Anti-virus filter not only traps dust particles, but suppresses the proliferation of mold and bacteria.

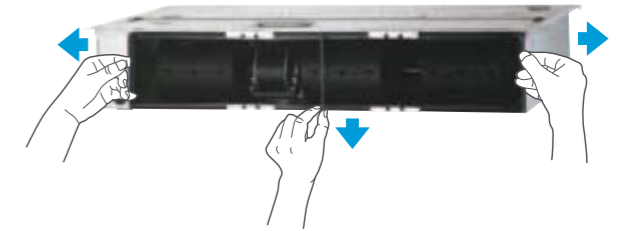


Easy Filter Cleaning

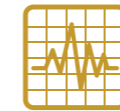


Easy Filter

After 1,000 hours of operation, the filter clean indicator will notify you that the filter should be cleaned. The filter can be easily removed from the bottom, left, or right of the unit. (1,000 hours is the default set time, which can be adjusted to 2,000 hours on the internal PCB.)

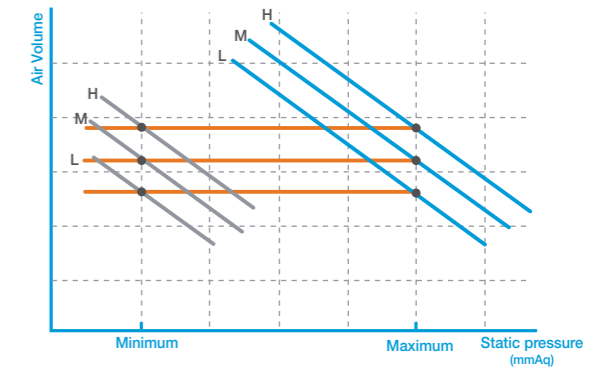


Smart Pressure Control

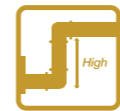


Smart Control

Smart Pressure Control System adjusts fan speed according to E.S.P (External Static Pressure) so the air conditioner always provides you with consistent cooling and heating power, regardless of the surrounding environment.

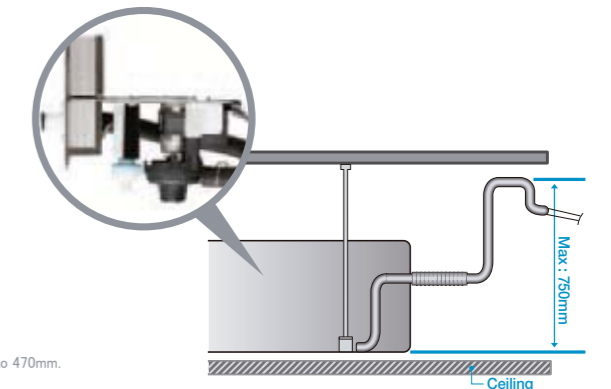


High Lift-up Drain Pump (Optional)



High Lift-up

The lift-up drain pump lifts condensed water up to 750mm, compared to our competitor's limit of 700mm, allowing for flexible and convenient installation.

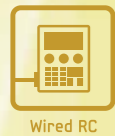


* The lift-up range of drain pump for HSP Duct (22/28kW) and Fresh Air Intake Duct is limited to 470mm.

Powerful and Flexible HSP Duct

Managing high external static pressures up to 25mmAq, this powerful HSP Duct provides a very large coverage area with outstanding cooling and heating performance. HSP Duct is an ideal fit for spaces with high ceilings, and can be flexibly installed in various environments.

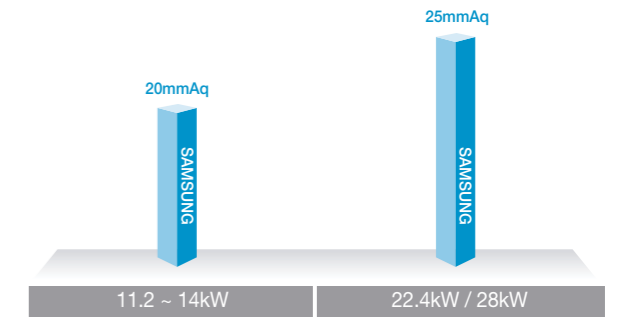
General features



Powerful and Flexible HSP Duct

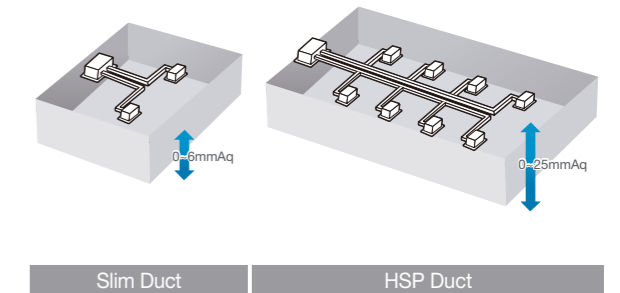
High External Static Pressure

To properly deal with unexpected various installation conditions, HSP Duct is designed to manage high external static pressures up to 25mmAq.



Strong and Large Coverage Area

HSP duct features greater static pressure than most of slim ducts: this enables you to design more inlets and outlets with longer duct work to provide even more cool or warm air to larger areas.



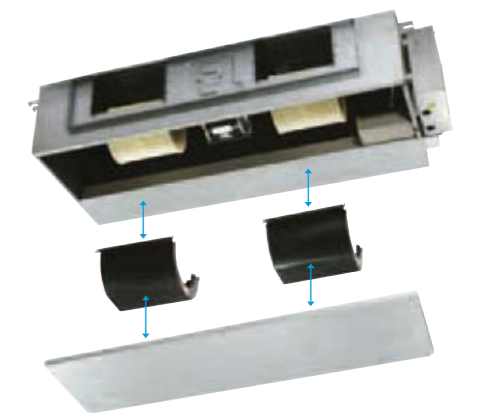
Silent Operation with the Static Pressure Control

The external static pressure control makes it easy to design the duct work to ensure efficiency and silent operation.



Easy to Maintain

Time and maintenance costs are reduced since parts are easily accessible.

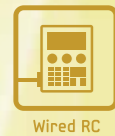
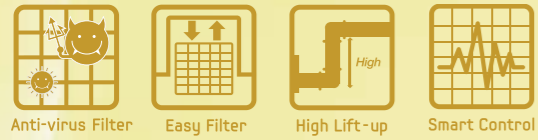


Silent and Strong

MSP Duct

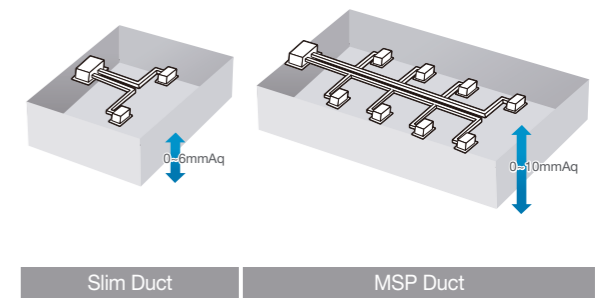
Concealed behind ceilings, MSP Duct provides powerful yet silent operation with external static pressure control. MSP Duct has a very large coverage area, thanks to the great static pressure that provides stable and efficient performance in larger areas.

General features



Strong and Large Coverage Area

MSP duct features greater static pressure than most of slim ducts: this enables you to design more inlets and outlets with longer duct work to provide even more cool or warm air to larger areas.



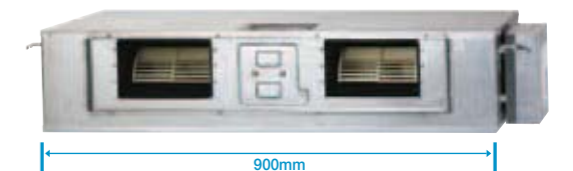
Silent Operation with the Static Pressure Control

The external static pressure control makes it easy to design the duct work to ensure efficiency and silent operation.



Narrow Width

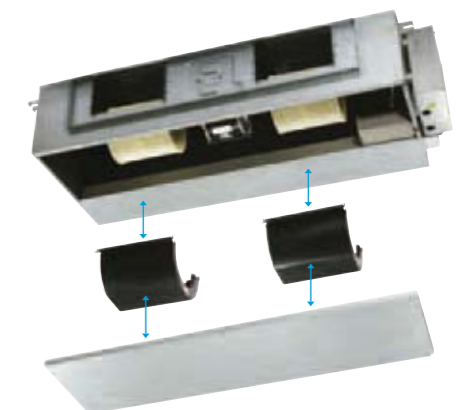
MSP Duct has very narrow width of 900mm, which enables flexible installation and maintenance with its compact size, thus maximizing your convenience.



* Measured without control box.

Easy to Maintain

Time and maintenance costs are reduced since parts are easily accessible.

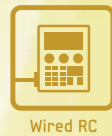
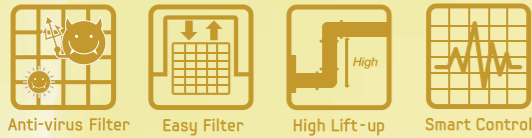


Light and Compact

Slim Duct S

The new Slim Duct S visually blends into ceilings while providing powerful cool and warm air. It's also easy to install and maintain in any interior space regardless of the surrounding environment due to its compact size and weight, which is the lightest in the industry.

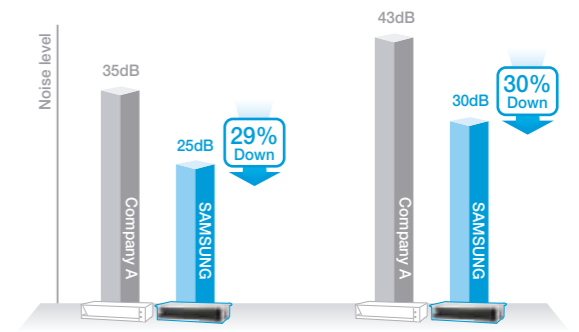
General features



Light and Compact Slim Duct S

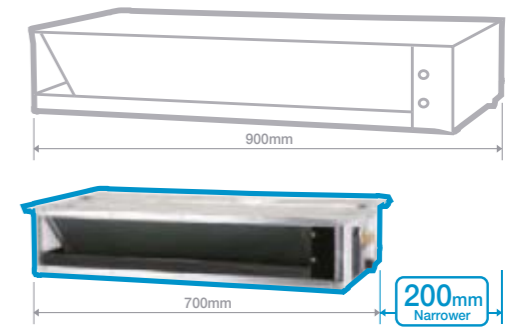
Quiet Operation

New Slim Duct S operates at a remarkably low sound level, lower than the noise in a library, so that you can enjoy maximized comfort in a quiet and peaceful environment.



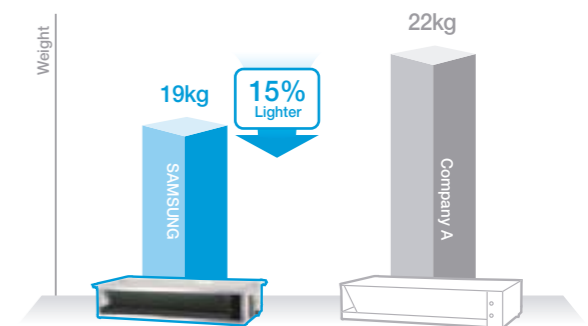
Compact Size

Slim Duct S has achieved a more compact and slim size with its width, which is 200mm narrower than conventional products: this enables flexible installation and maintenance in various spaces.



The Lightest Weight

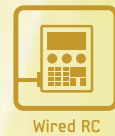
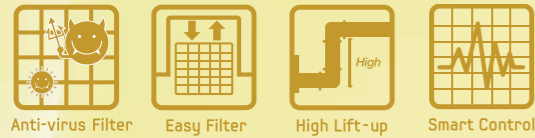
Slim Duct S is the lightest duct on the market, and is about 15% lighter than our competitor's products. This light weight makes it incredibly easy and convenient to install and maintain.



Slim and Flexible *Slim Duct*

Slim Duct enables flexible installation options, and can be used for many differently shaped rooms with its rear and bottom side air inlets. Concealed behind ceilings, Slim Duct enhances the luxurious ambience of your space while providing fresh and powerful cool air.

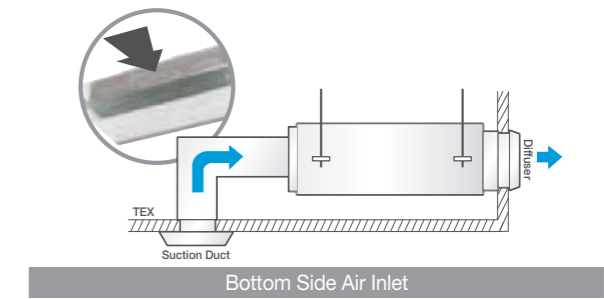
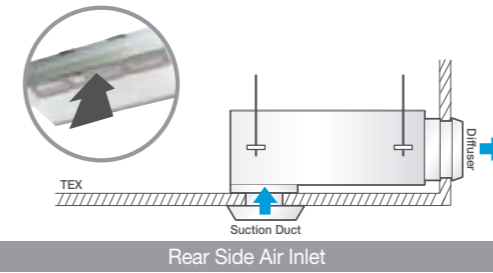
General features



Slim and Flexible Slim Duct

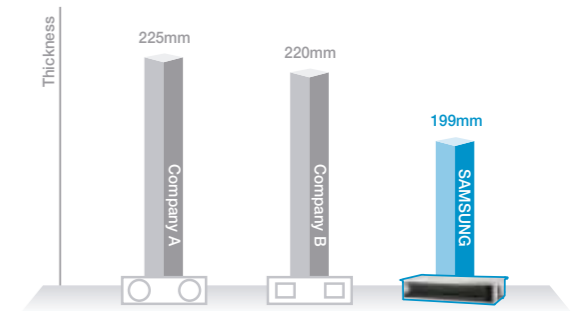
Flexible Installation

The air inlet can be set up either on the bottom or rear of the unit, giving you greater flexibility in installation.



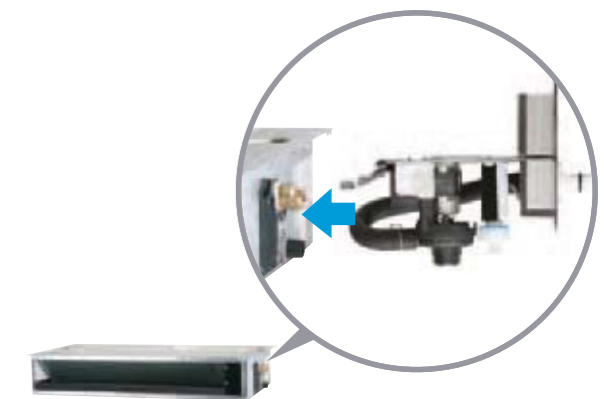
Slim Design

Only 199mm thick, this slim design makes installation, maintenance and repair easy to perform.



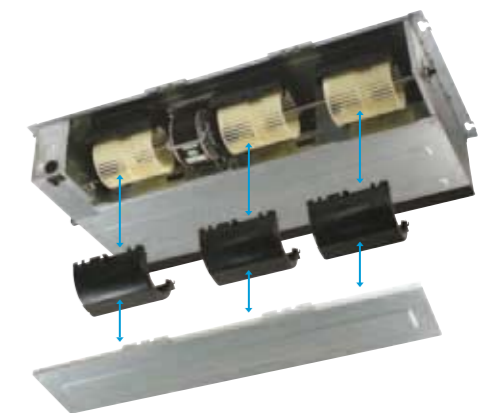
Easier Drain Pump Installation

New drain pump can be installed from the side by simply removing the right side panel. You no longer need to disassemble the top cover to install, check or repair the drain pump.



Easy to Maintain

Parts are easily accessible by simply opening the bottom panel, which reduces time and maintenance costs.



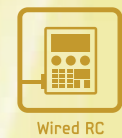
Quiet and Efficient

Fresh Air Intake Duct

Adopting a highly efficient BLDC motor, the new Fresh Air Intake Duct improves efficiency to the highest level, significantly reducing energy consumption and operation sound level to create a more pleasant and comfortable environment for you. Breathe real fresh air and stay healthy with the new Fresh Air Intake Duct.

General features

- Anti-virus Filter
- Easy Filter
- High Lift-up
- Smart Control



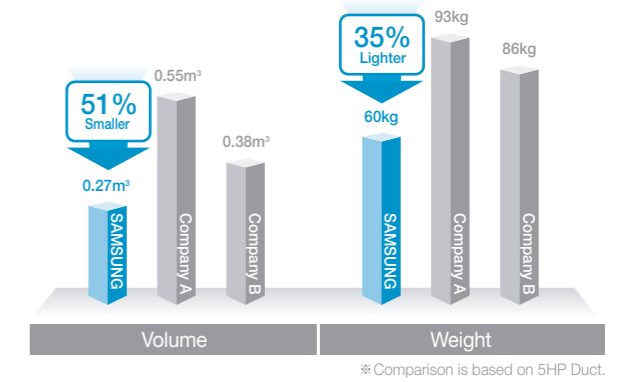
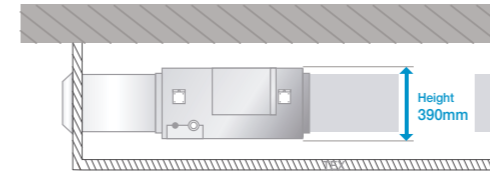
Wired RC



Quiet and Efficient Fresh Air Intake Duct

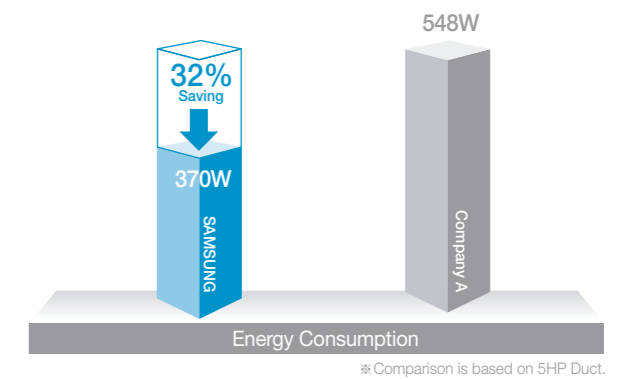
Flexible Installation

This light and compact unit, with its shorter height of 390mm, enables you to conveniently install and manage it in a variety of areas and installation options.



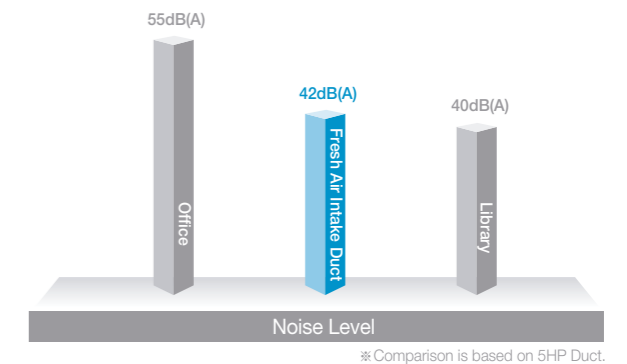
Highly Efficient BLDC Motor

The BLDC motor enables Fresh Air Intake Duct to perform at the highest efficiency possible, saving energy up to 32% for more economical and practical operation.



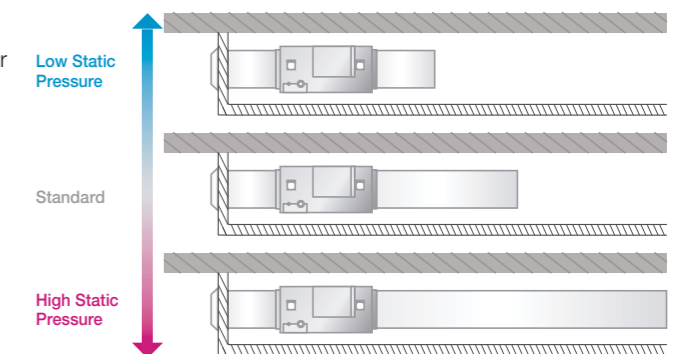
Quiet Operation

Equipped with the highly efficient BLDC motor, Fresh Air Intake Duct operates quietly with a sound level as low as 42 Decibels, slightly higher than that of a library, to provide your environment with optimum comfort.



Flexible Static Pressure Control

If the installation area of the duct exceeds the standard, then the static pressure control system maintains the optimized air volume, adjusting the fan speed.



Double Cleaning

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

step 1

FULL HD FILTER

Samsung's high density filter blocks out dust and allergy-causing bacteria.

step 2

S-Plasma ion

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

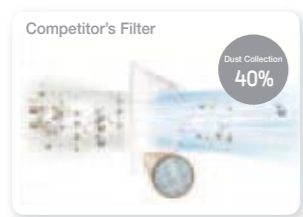


Full HD Filter



Improved dust removability!

Samsung's Full HD Filter creates cleaner air with outstanding dust collection!



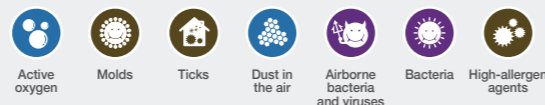
S-Plasma ion



How S-Plasma ion Works

S-Plasma ion eliminates the harmful substances and viruses breeding in the space you live in, thus improving indoor air quality to the highest.

- Creates an Intensely Purified Zone
- Protects against disease
- Safe from allergy-causing agents
- Controls active oxygen which can cause disease, cancer and accelerated aging



3D Wind

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



Wide Twin Blade



Wide Twin Blade

Samsung's Wide Twin Blade can open up to 90 degrees for a more effective airflow. The longer twin blades ensures that air reaches every corner of the room with more control in flow. Samsung offers the perfect solution in effective cooling with the Wide Twin Blade.

*Based on Samsung test results



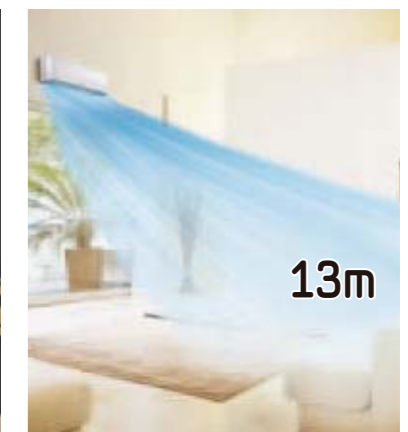
120° wide coverage

The airflow covers 120° angle for complete comfort.



90° vertical airflow

Two blades individually flow air down to the floor by 90°.



13m long range cooling

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

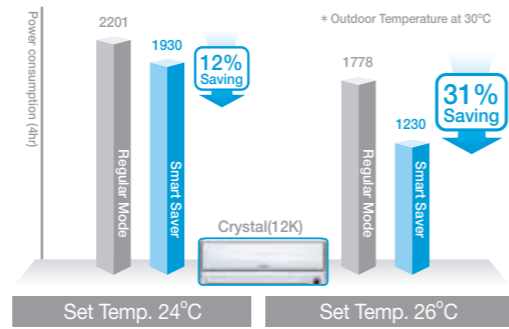
Wall-mounted Type | Icon Description

Smart Saver



Smart Saver

In Smart Saver mode, the air conditioner's compressor operates in the least amount of time to cool the room, saving on the electricity. With the Smart Saver, you can stop worrying about your electricity bill and start enjoying cool comfort.

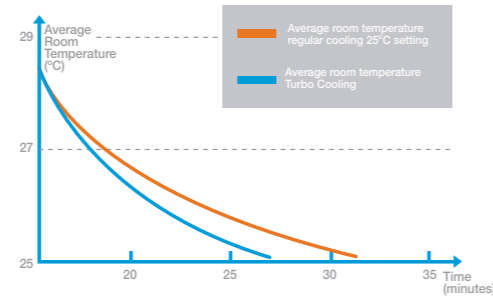


Turbo Cooling



Turbo Cooling

Samsung's new air conditioner operates in its maximum speed in Turbo mode to quickly reach the set temperature. Instantly cool down your space with Samsung's Turbo Cooling technology.



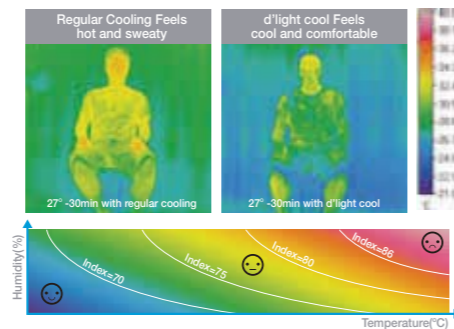
d'light cool



d'light Cool

Optimum temperature for best comfort

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



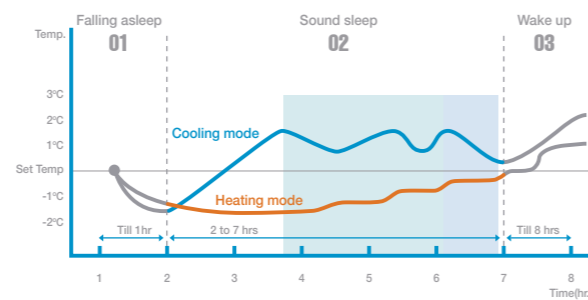
good'sleep



good'sleep

Best temperature for deep sleep

- Falling asleep stage**
Eases you into sleep by dropping the temperature.
- Sound sleep stage**
Relaxes your body and raises your temperature slightly.
- Wake up stage**
Allows you to wake up from comfortable intermittent air, making you feel refreshed.



Unique Filter



DNA Filter



Catechin Filter



Deodorizing Filter

- DNA Filter
- Catechin Filter
- Deodorizing Filter

The multi filter system absorbs and eliminates microscopic harmful substances with unpleasant odors in the air.



Wall-mounted Type

Powerful and Versatile

Y Series (Jungfrau)

The new Y Series has adopted wide twin blades that provide 3D wind that flows evenly throughout the room in wider and longer coverage area. With its Full HD Filter that eliminates harmful substances in the air, Y Series brings cool, clean and healthy freshness into everyday living.

General features



S-Plasma ion



Full HD Filter



Smart Inverter



d'light Cool



good'sleep



Wide Twin Blade



3D Wind



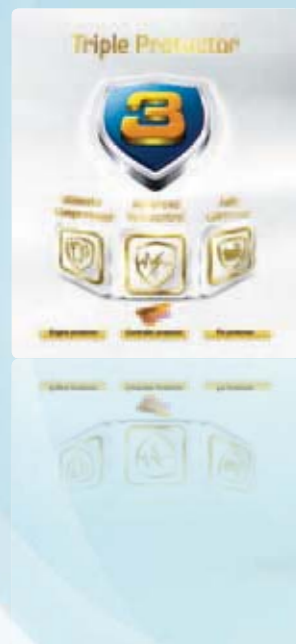
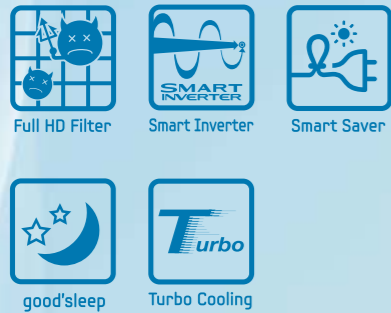
Wall-mounted Type

Fast and Efficient

P Series (Maldives)

The new P Series creates an optimized environment for you by using new Turbo Cooling technology that maximizes the speed of cooling and heating to quickly reach the set temperature. Experience the surprisingly fast cooling and heating performance and maximize your comfort with P Series.

General features



Triple Protector (Optional)

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

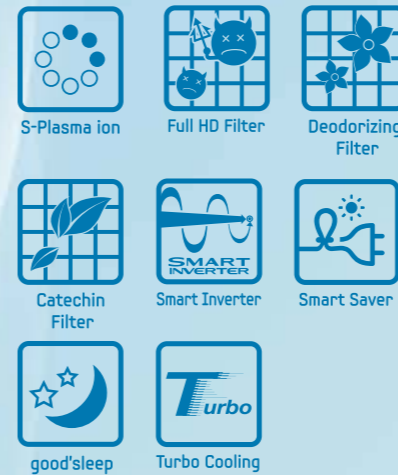
Wall-mounted Type

Pure and Clean

Crystal

The stylish Crystal unit always keeps your indoor air clean and fresh through the multi filter system that eliminates harmful substances and odors in the air. It creates a healthier environment, quickly reaching and maintaining the desired temperature for your complete comfort by using S-Inverter technology.

General features



Filter Cleaning Indicator

The Filter Cleaning Indicator automatically alerts you when the filter needs to be cleaned with its illuminating blue light, usually after about 500 hours of use. Now you can always keep your air conditioner clean with low energy consumption of up to 50% and reduce the vibration to bring peace into your life.



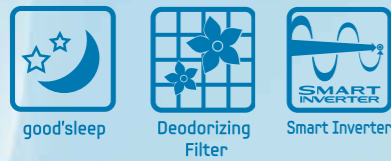
Wall-mounted Type

Fresh and Pleasant

Neo Forte / Neo Forte-E

Neo Forte's clean panel design with a unique silver accent adds a touch of class to your space. It also provides the efficient and stable cooling performance and maintains the optimum temperature, even while you sleep.

General features



Internal EEV (Neo Forte-E)

EEV (Electronic Expansion Valve) equipped inside the unit allows easy installation and maintenance.



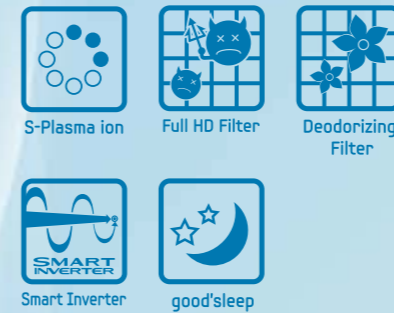
Wall-mounted Type

Stylish and Unique

Vivace

Vivace's sophisticated appearance seamlessly becomes part of your interior design, adding modern elegance to your space with its shadow mirror panel. It fully satisfies your aesthetic needs and provides perfect cooling performance to give you the utmost comfort.








General features



Slim and Elegant Console

The slim and elegant Console type indoor unit is designed to perfectly fit for spaces with high ceiling and many windows to maintain the optimum indoor temperature. With its quiet operation and slim panel design, Console makes your environment more pleasant and comfortable.

General features

-  Good Design
-  Anti-virus Filter
-  Lightweight
-  Silent Mode
-  Wireless RC
-  Flexible
-  S-Plasma ion



Slim and Elegant Console

Slim & Smart Design

This extremely slim design with Clean Panel adds aesthetic value to any interior.

1 Slim Design

You won't find anything slimmer than this: the new Console type air conditioner is only 199mm thick, the slimmest on the market, and its unobtrusive design easily integrates into your decor.



2 Clean Panel

Stay clean with the intelligently designed Clean Panel. This unique panel keeps dust from accumulating, so the unit and your room stay cleaner.



3 Black Display

The touch screen display maximizes the convenience of control, and is an elegant example of functional art.



2Way Air Outlets

There are two separate air outlets for cooling and heating. The warmer air comes out from the bottom part of the air outlet to spread the warm air evenly throughout the room. Stay cooler and warmer in every corner of your room.



Silent Operation [23dB(A)]





This silent yet powerful and efficient cooling and heating system makes your room more comfortable than ever before. Silent mode is available in 4 different operating modes: choose from High/Medium/Low/Silence.



Simple yet Functional Ceiling

Ceiling type indoor unit has two way installation options for the ceiling and floor, enabling you to use your available space more efficiently. You can enjoy crisp, powerful air spreading throughout your entire space from the compact unit in your ceiling or floor.

General features

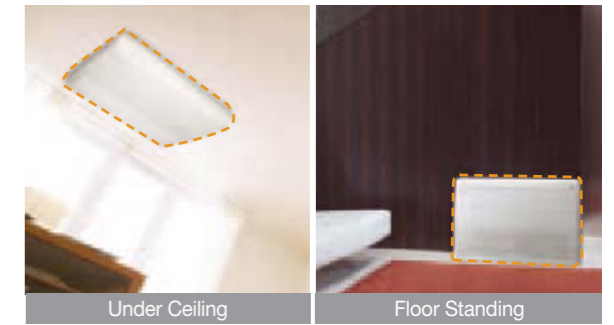
-  Interior Design
-  Anti-virus Filter
-  Lightweight
-  Flexible



Simple yet Functional Ceiling

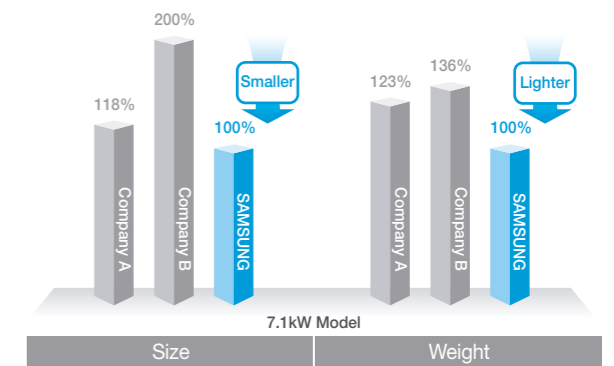
2Way Installation

Depending on the available space and the purpose of the air conditioner, the indoor unit can be installed under the ceiling or on the floor.



Compact but Powerful

Samsung Ceiling type air conditioner boasts a slim, compact design - half the size of our competitor's with cooling power comparable to our competitor's larger products.













ERV System

Breathe in the Freshness

Necessity of Ventilation

Indoor air quality is gaining more and more attention since people are getting sick from contaminants within the air. Indoor air contaminants are often the cause behind sick building syndrome, asthma, headaches and dizziness.

Harmful Substances Indoor Air and Illnesses they may Cause

- | | |
|---|--|
|  Cigarette Smoke
Cancer, mucous membrane irritation, heart disease, and stroke |  Carbon Monoxide (CO)
Laryngitis, decrease in heart and lung function |
|  Asbestos
Asbestosis, Cancer |  Nitrogen Dioxide
Decrease in lung function |
|  Formaldehyde (HCHO)
Irritations, allergic reactions, cancer |  Particle Contaminants
Cancer, respiratory ailments |
|  Volatile Organic Compound
Damage central nerve system, cancer |  Insecticide
Ototoxic, hepatotoxicity |

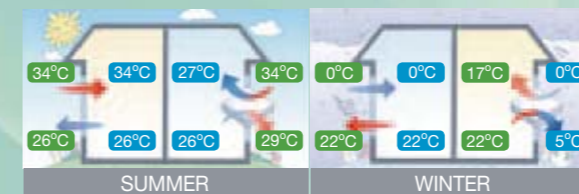
ERV System

Clean and Refreshing

ERV / ERV PLUS

Feel totally refreshed by breathing pure air anywhere and anytime indoors. Samsung's ERV system provides you with fresh and healthy air from outside while minimizing energy loss to maximize the efficiency.

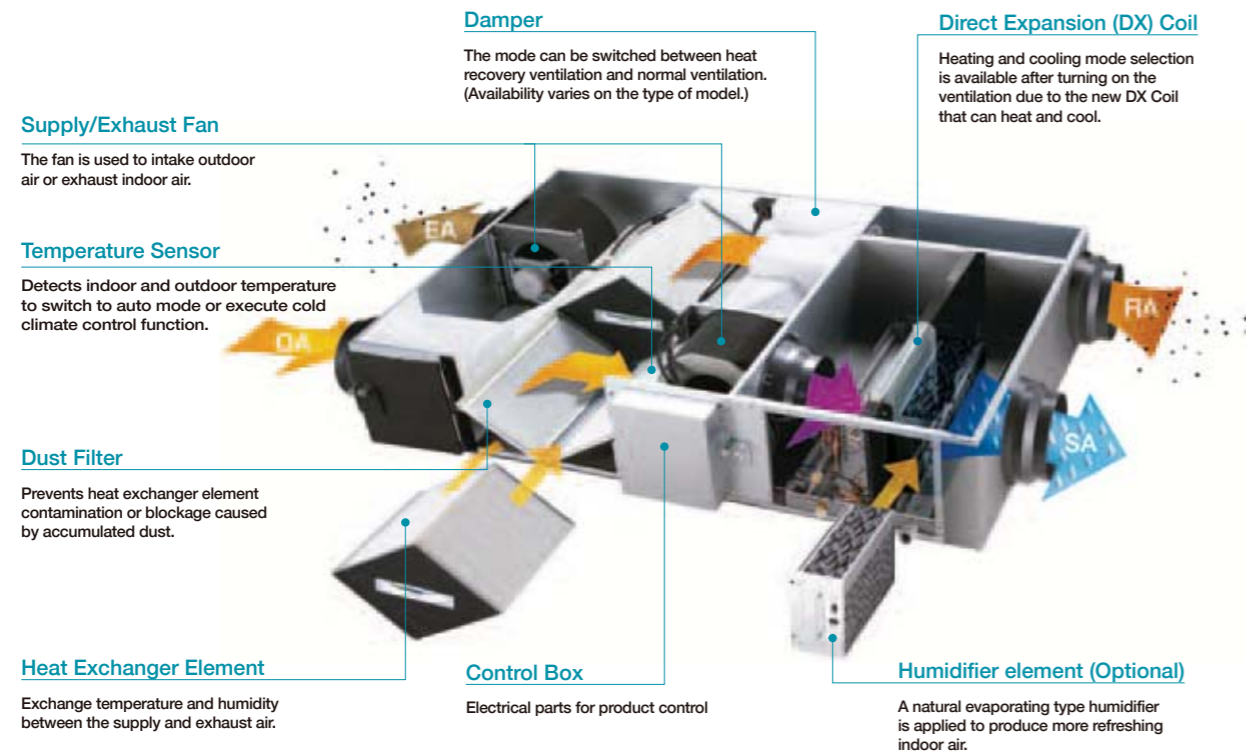
Energy Recovery Ventilation



When ventilation is naturally achieved by opening your windows, the temperature inside your home may change by the outdoor temperature during natural ventilation. Ventilation through ERV will have the same ventilation effect while maintaining the desired temperature inside your home.



ERV PLUS System Structure



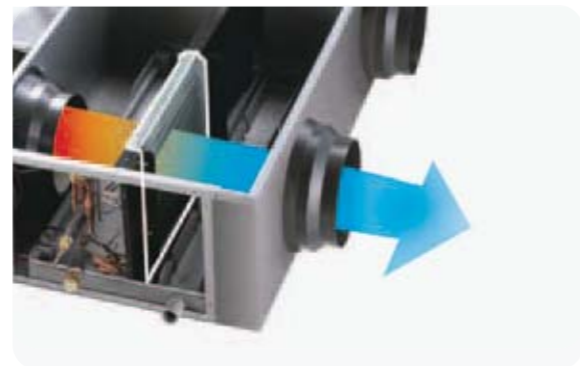
Features of ERV / ERV PLUS

	ERV PLUS	ERV
Damper	•	•
Direction Expansion (DX) Coil	•	•
Humidifier Element (Optional)	•	•
Supply/Exhaust Fan	•	•
Dust Filter	•	•
Heat Exchanger Element	•	•
Control Box	•	•
Temperature Sensor	•	•

Get Fresh Air without Temperature Loss

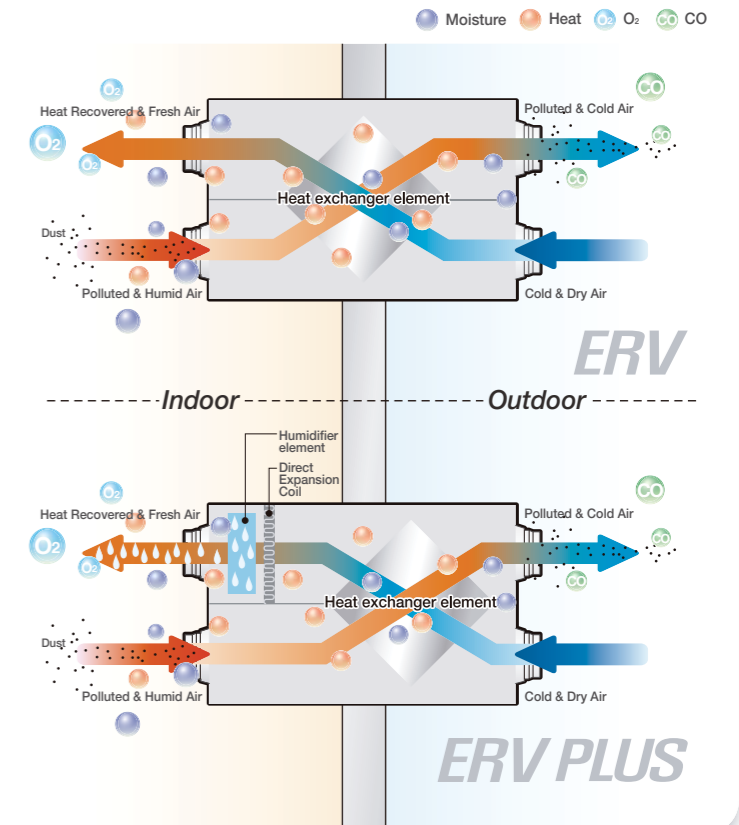
Direct Expansion Coil

ERV PLUS is equipped with a direct expansion coil to pre-condition the outdoor air that enters your indoor environment. Outdoor air will pass through the DX coil to produce fresh air without any temperature loss.



Heat Recovering Method of ERV System

- Great ventilation efficiency is achieved with a 2-way ventilation design that has air inlets and outlets on both sides of the units.
- The remaining surface of the heat exchanging area is specially processed and structured to exchange heat energy while preventing the discharged contaminants from re-entering.
- Energy is recovered up to 70% (differs depending on the model) of the energy needed to cool or heat. This maintains the indoor temperature and humidity during the winter, and prevents outdoor heat and moisture from entering indoors during the summer.



Maintain the Best Indoor Humidity Level

Humidifier Element (Optional)

Maintain the best indoor humidity level with our clean humidifier kit. Samsung's humidifier kit boasts high efficiency humidification with its large humidification area. Its self cleaning function, which sprays water from the top of the device when the set starts, also prevents bad smells.



Smart CO₂ Sensor and Humidity Stat

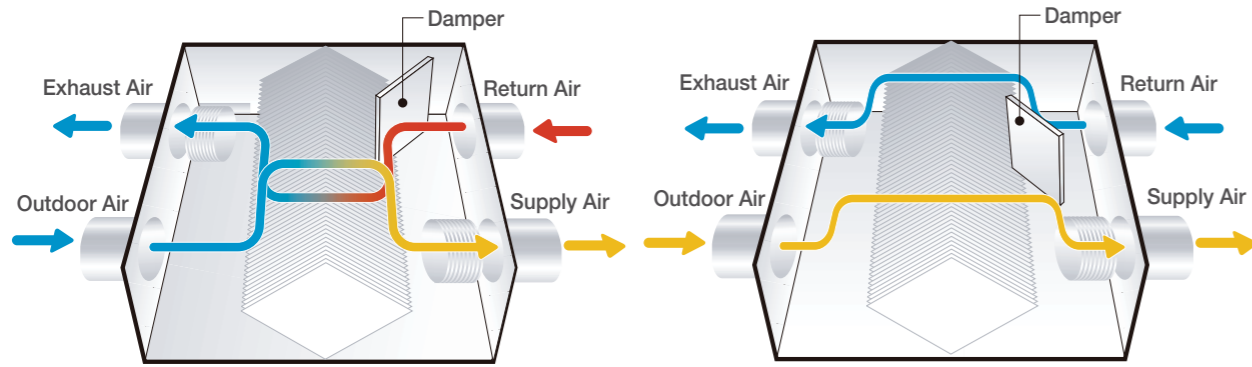
ERV automatically operates to give fresh air into the room by detecting CO₂ with the CO₂ sensor (optional). You can also attach a humidity stat (procured locally) which will detect the humidity of the room and adjust its humidity level.



Energy Saving Operation

1 Auto Mode

ERV automatically changes its operation mode depending on the temperature difference between your indoor and outdoor environment to save energy.



Extreme Climates (Winter & Summer)

Mild Climates (Spring & Fall)

The unit operates as ERV when there is a great difference in the temperature and humidity level between your indoor and outdoor environment.

When the temperature and humidity level difference between your indoor and outdoor is small, it operates as conventional ventilation fan.

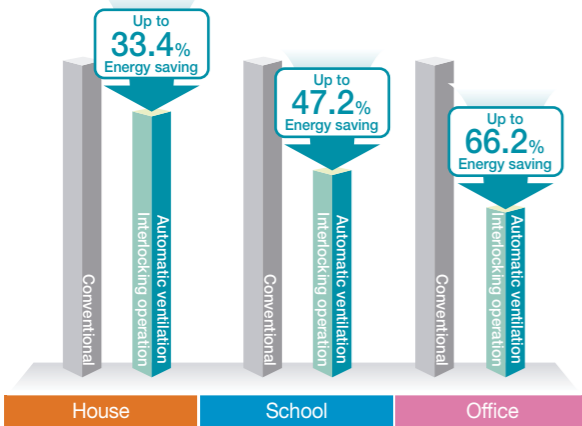
2 Energy Saving Mode

ERV, in combination with air conditioners, provides world-class energy saving solutions to intelligently reduce air conditioner operation hour. This reduces the cooling and heating load while maintaining optimized performance.



MWR-WE10

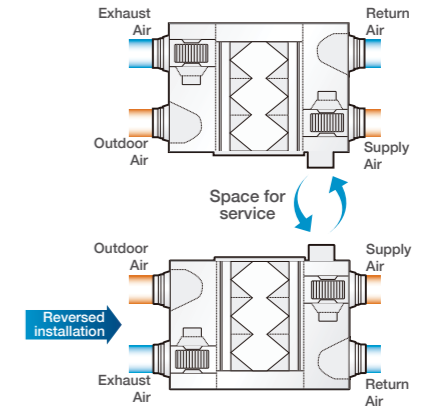
*Energy saving mode is only applicable when combined with air conditioners using the designated remote controller (WE10).



Flexible Installation

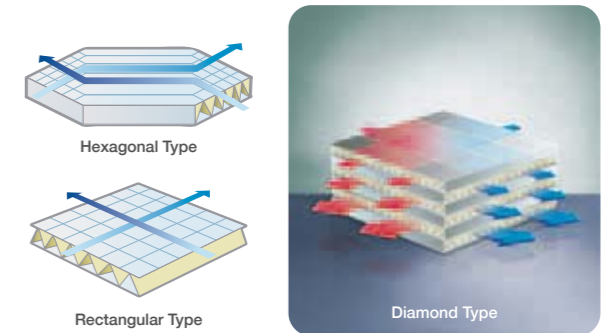
ERV system can be installed horizontally. The installation flexibility will save you time on maintenance when installing more than one unit since you can reduce the number of service holes by installing ERV with the control box facing a single service hole.

* Not applicable for ERV PLUS models.



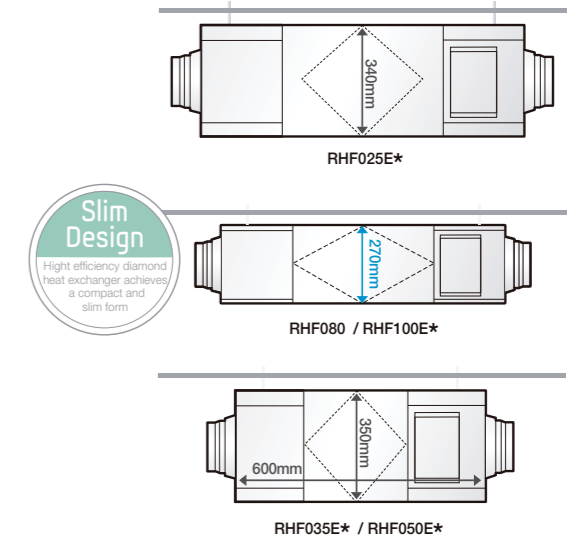
New Diamond Type

The new diamond type heat exchanger has optimized airflow design. This part is compact in size, but has high efficiency compared to conventional rectangular and hexagonal type heat exchangers.



Slim Design

Samsung's advanced technology has enabled us to design a slim and compact-sized product. By applying a highly efficient heat exchanger element, Samsung has been able to reduce the product's height to 270mm. Compared to the units with rectangular type heat exchangers, Samsung ERV units use space more efficiently with their slim design.



Silent Operation



Samsung ERV units operate much more quietly compared to ordinary ventilators.

High Efficient Motor (BLDC)

Constant air volume is provided by BLDC motor.



Control System

Convenient Management

Integrated Management

Enabling convenient and optimized management, Samsung's integrated management system is a perfect choice for managing large and middle-sized buildings with many indoor and outdoor units.



System Controller

Samsung's control system offers various control options for the indoor units. You can control the multiple units individually or simultaneously in groups to optimize your convenience.



Building Management

This excellent building management system with convenient monitoring makes management of your air conditioning units much easier and economical.

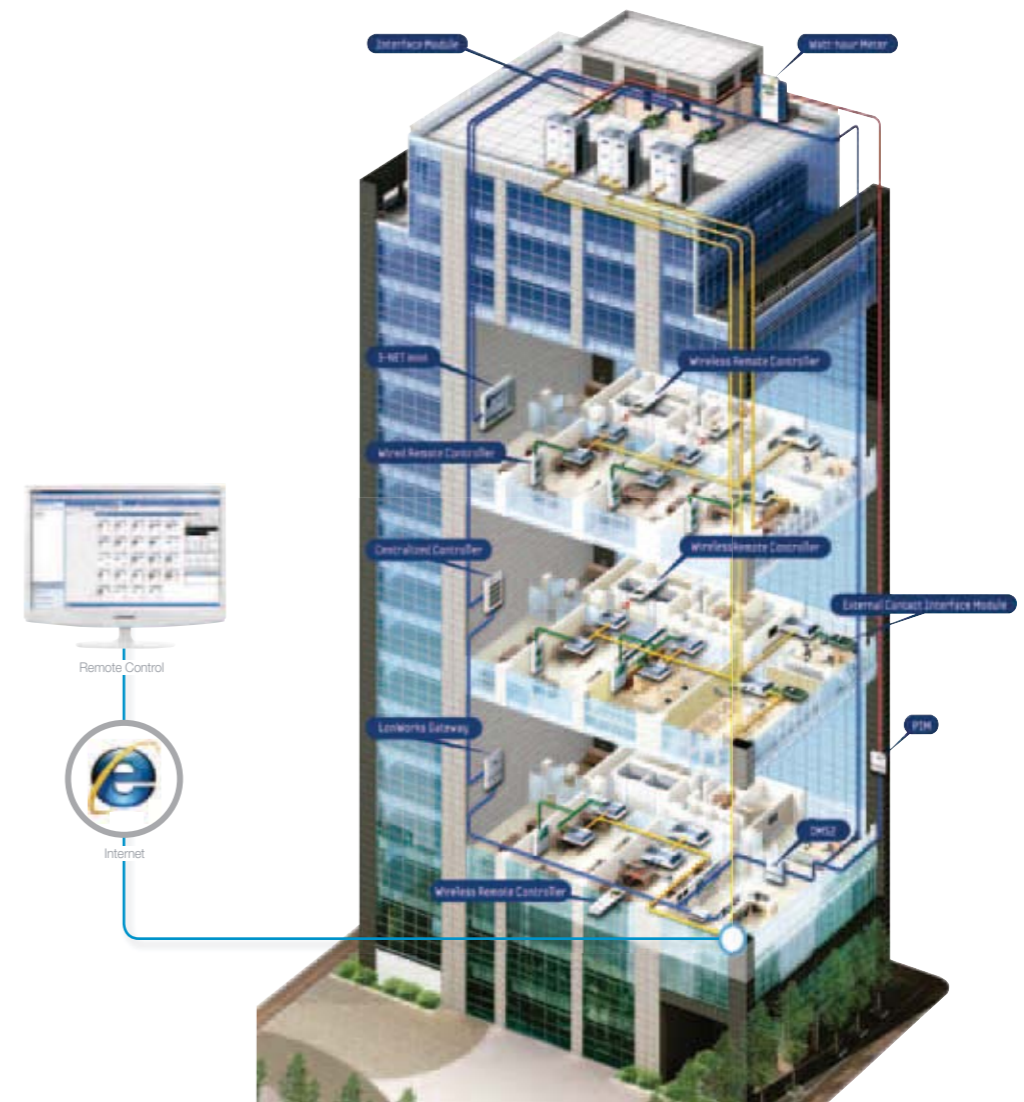


Applications

Samsung System Air Conditioner's various products are designed so that you can find the most convenient and efficient air conditioning system to perfectly suit your needs.



Control System Structure



S-NET 3

This integrated software connects to the internet to control the system air conditioners through DMS from a single computer.



S-NET Mini

Featuring a touch screen, S-NET Mini can be directly connected to the system air conditioners through centralized controllers or interface modules.



DMS 2

DMS 2 is an internet-based management device that stores and manages all the data relevant to the system air conditioner.



Centralized Controller

The centralized controller controls the system air conditioners individually or in groups supporting many other functions.



Interface Module

The interface module transmits data between the outdoor units and the upper level controllers.



Wired R/C, Wireless R/C

The individual remote controllers are used to control single indoor units conveniently.

Integrated and Complete S-NET 3

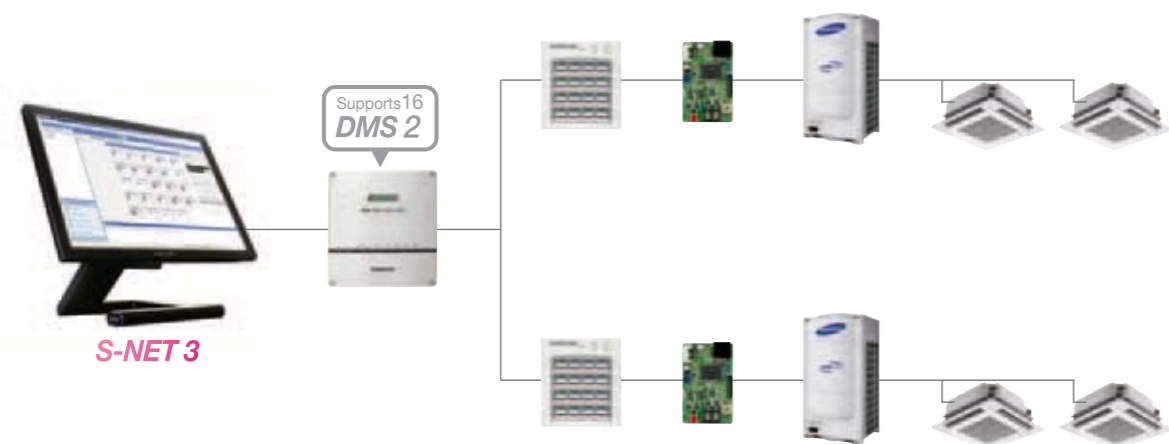
S-NET 3 manages a group of buildings through Data Management Servers (DMS 2) that individually manage each building, providing flexible and complete control for a wide variety of applications.

MST-P3P

- Fully integrated PC management software.
- Up to 16 DMS 2 connection through the Ethernet.
- Central management of up to 4,096 indoor units including ERV, ERV PLUS and AHU
- Schedule/Zone control.
- Error/Operation history management.
- Power distribution management and analysis.

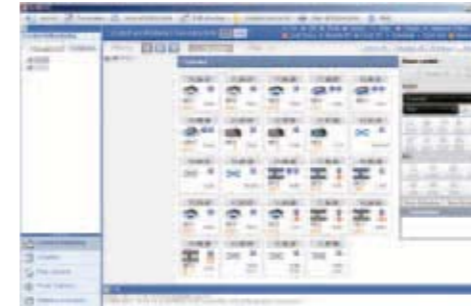


S-NET 3 System



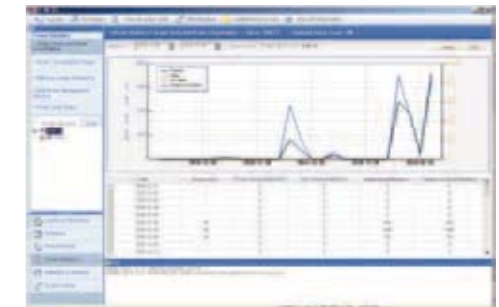
Control and Monitoring

- Control & monitoring of up to 4,096 indoor units including ERV, ERV PLUS and AHU
- Wireless/wired remote control restriction
- Temperature limit setting • Operation mode lock
- Multiple/full indoor unit selection
- Icon-based indoor unit display mode



Power Distribution Management

- Data query for power distribution and operation time
- Power distribution report generation and printing
- Time section setting for different electricity rates
- Group setting for power distribution summary



Schedule Control

- Graphical schedule settings
- Weekly, Daily schedule control
- Exception date setting

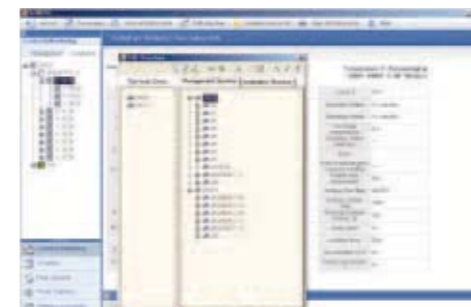


History Management

- Error/Event history management
- Indoor unit operation history management
- Report generation and printing

Zone Management

- Management structure customization regardless of installation structure
- Control zone creation/edition/deletion
- Tree structure zone management control



Cycle Monitoring

- Monitoring outdoor/indoor unit cycle data (The monitoring function is supported for specific outdoor unit models)

Comprehensive and Solid S-NET Mini

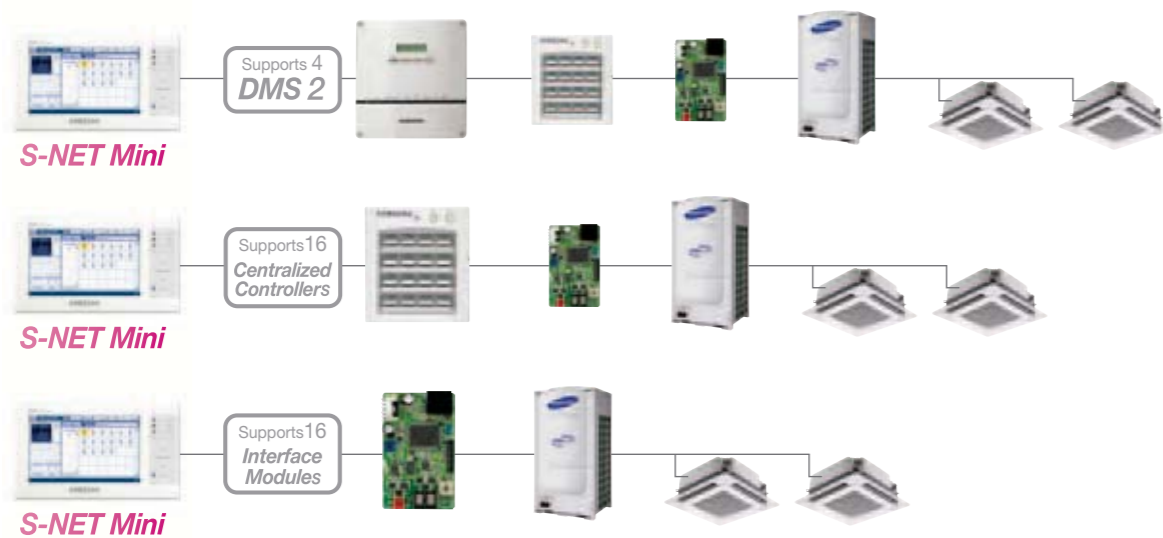
S-NET Mini supports up to 4 DMS 2 to provide the same remote control functions as S-NET 3. This touch screen controller can be directly connected to the system air conditioner through the centralized controller or interface modules, allowing for the control of up to 256 indoor units.

MST-S3W

- Flexible compatibility options (DMS 2, centralized controller, interface module)
- Central management of up to 256 indoor units including ERV, ERV PLUS and AHU
- Detailed cycling information monitoring
- Schedule function (Weekly, Daily)
- USB keyboard support
- Error display
- 7-inch wide LCD display
- Temperature limit setting
- Touch screen
- Zone control
- Child-lock setting
- Operation mode lock
- External contact control.



Dynamic Compatibility Option



Control and Monitoring

- Control & monitoring of up to 256 indoor units including ERV, ERV PLUS and AHU
- Operation control and monitoring
- Detailed operation cycling information monitoring
- Wireless/wired remote control restriction setting



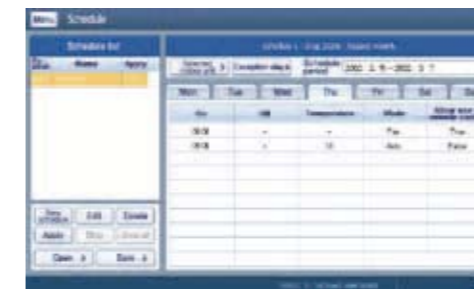
Central Restriction Function

- Upper/Lower temperature limit setting
- Operation mode lock



Schedule Control

- Maximum 256 Weekly, Daily schedule control
- Schedule repetition, exception date setting
- Schedule edit (add, edit, delete)
- Detailed operation schedule setting
- Remote control restriction option setting



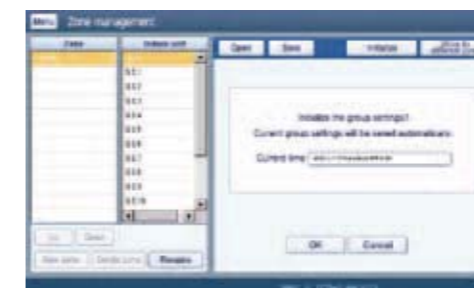
Cycle Monitoring

- Monitoring outdoor/indoor unit cycle data (The monitoring function is supported for specific outdoor unit models)



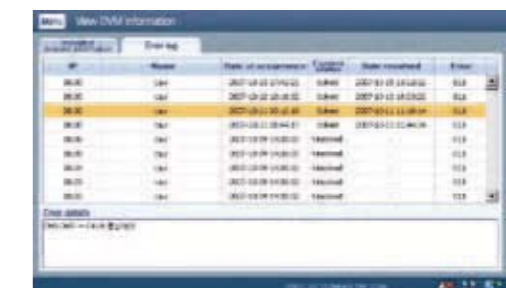
Zone Management

- Management structure customization regardless of installation structure
- Control zone creation/edition/deletion



Error Management

- Error history management
- Error management information query
- Detailed error information query



Advanced and Smarter **DMS 2**

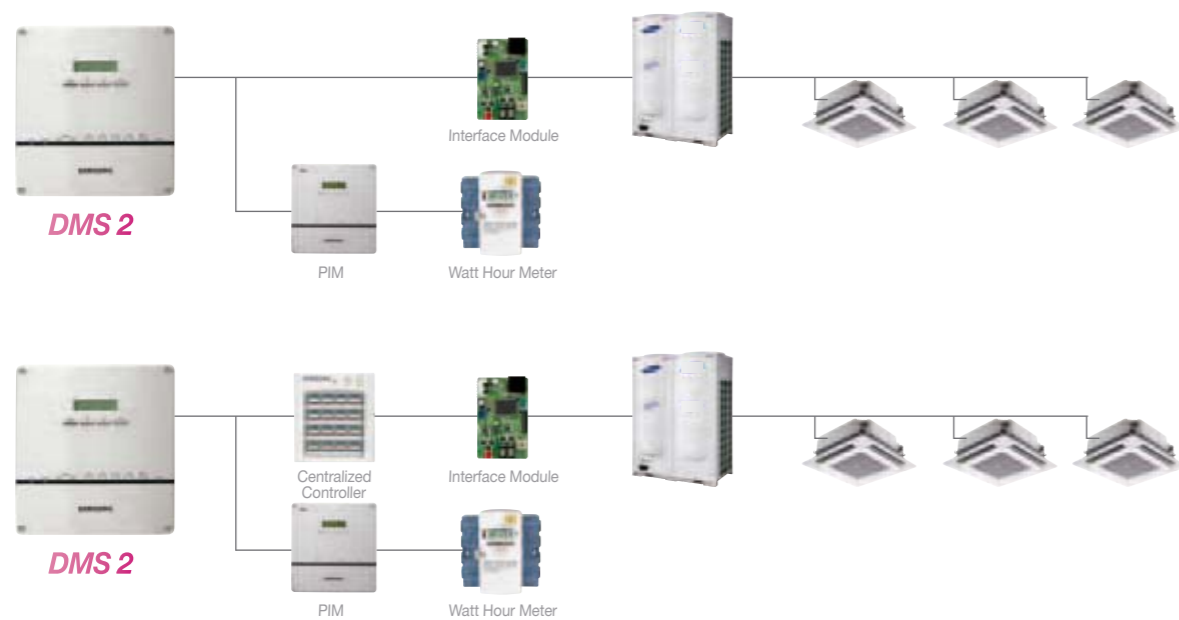
The improved Data Management Server has become smarter: it can manage a variety of different air conditioning units, and the newly upgraded functions can automatically manage the air conditioning system for you.

MIM-D00A

- Built-in web server for PC-independent management and remote access control
- Multiple upper-level control access (S-NET 3, S-NET Mini, Web-client)
- Central management of up to 256 indoor units including ERV, ERV PLUS and AHU
- User editable control logic
- Accessible level management
- Dynamic security management
- Operation & error history management
- Weekly/Daily schedule control
- Power distribution function
- Current time management even during power failure (for 24 hours)
- Data storage in non-volatile memory &SD memory
- Emergency stop function with simple contact interface

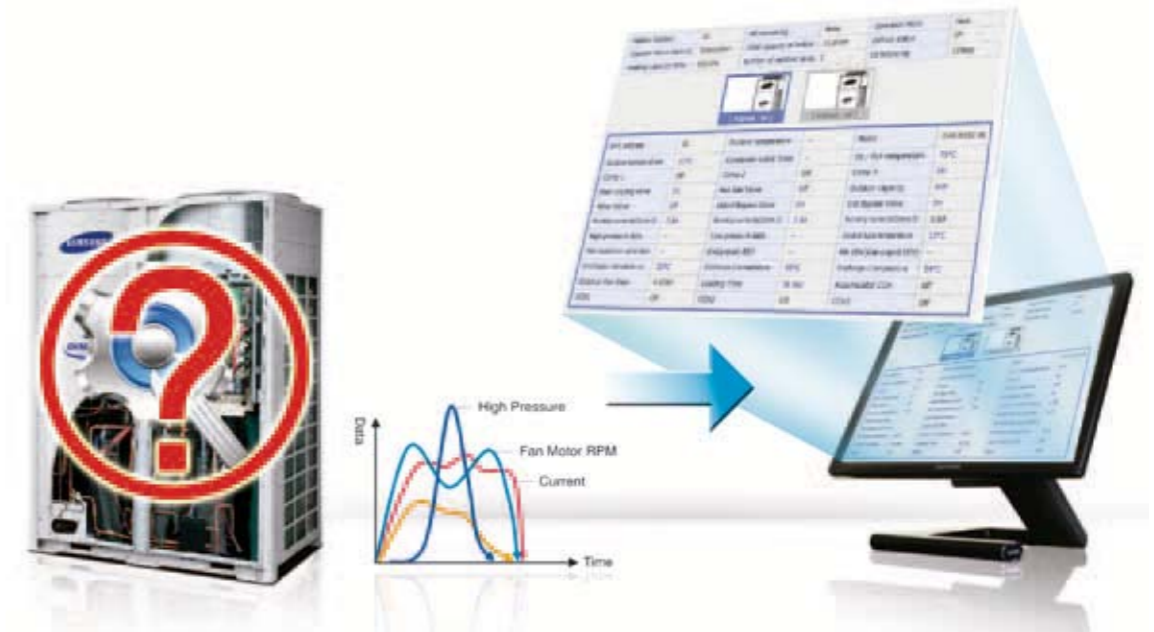


DMS 2 System



Air-Conditioning Operation Monitoring

- No need to open each outdoor units
- Detailed refrigerant flow check in control room
- Reduced service lead time



Easy Control & Monitoring

- Control and monitoring of up to 256 indoor units via internet network
- Operation On/Off
- Operation mode, fan speed, temperature setting
- ERV, ERV PLUS, AHU support

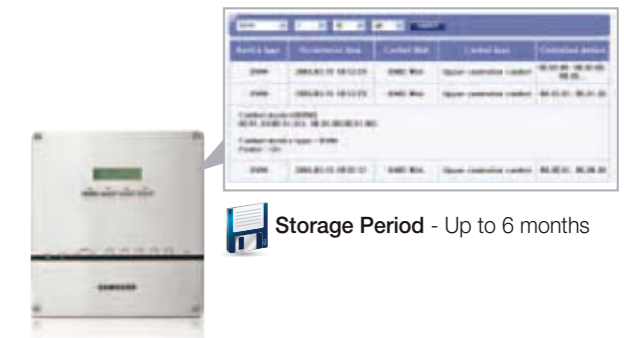


Indoor Unit On/Off Time Storage

- Operation history that records data for up to 6 months

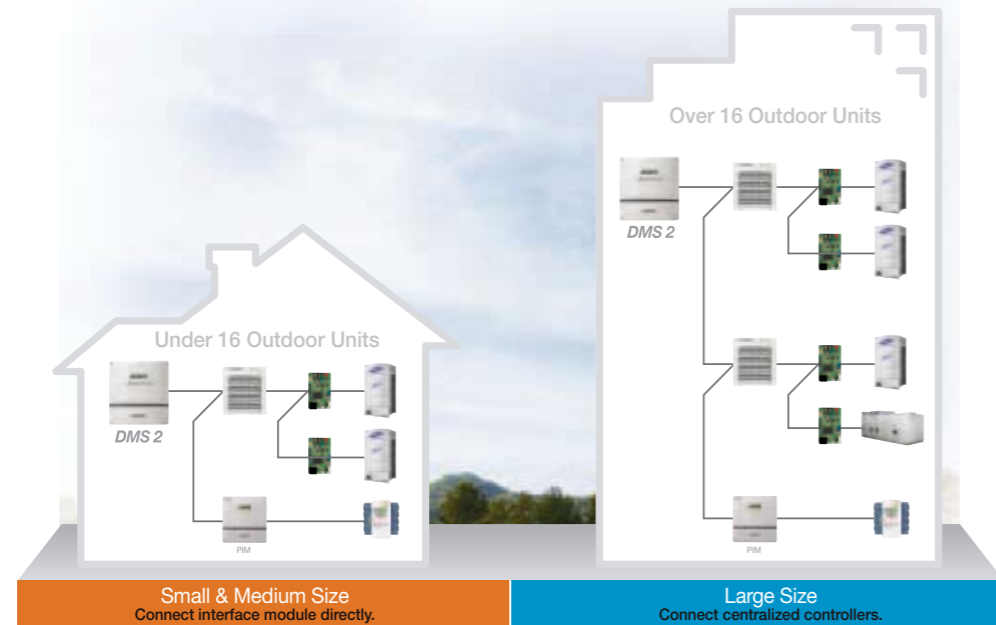
Storage parameters

1. Indoor unit address and name
2. On/Off time (year, month, day, hour, minute)
3. Operation mode (Cool, Heat, Auto, Fan, Dry, Stop)
4. Set/Room temperatures



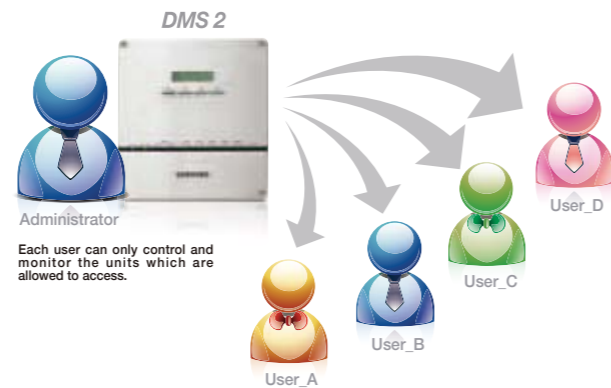
Flexible Connectivity

- Indoor unit control via centralized controllers or interface modules directly
- Select connection point according to the site



Accessible Level Management

- It is possible to specify the scope of control and monitoring unit by each user.



Dynamic User Security Management

General users, managers, and administrators can be registered separately by ID and password. Administrators (utility managers) have the authority to set access levels for DMS 2 functions on users.

Functions	Admin	Manager	User
	Access All	Changeable	
Control / Monitoring	O	O	O
Zone Management	O	O	X
Schedule	O	O	O
Power Distribution	O	O	X
System Configuration	O	X	X

Enhanced Graphical Display

User-friendly icon-based unit control

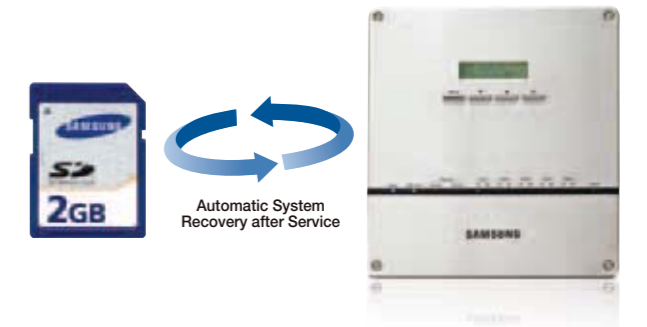
Color indication and icons make it easy to recognize indoor unit status

Zoom in & Zoom out icon display

Convenient & stylish controller

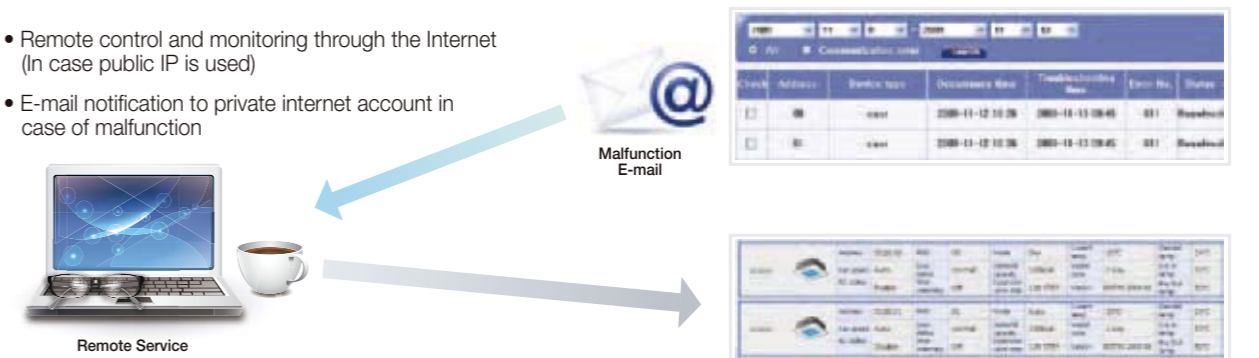
Powerful Data Backup

- Important data is safely stored on SD memory card.
- Indoor/outdoor unit name
 - Power distribution data
 - Operation history (On/Off by DMS)
 - DMS power On/Off history
 - System configuration
 - Others



Rapid & Easy Service Response

- Remote control and monitoring through the Internet (In case public IP is used)
- E-mail notification to private internet account in case of malfunction



User Editable Control Logic

- User can edit control logic with arithmetic / conditional operators and parameters.
- Energy can be efficiently used and reduced for various operation conditions.

EHP / ERV / AHU Parameters	+ AND OR +	Arithmetic Equation Function	=	EHP / ERV / AHU Parameters change
Temperature, Power, Mode.....		<, >, =, =>, =<, Average		Setting temp, Power, Mode, Fan speed.....

Example : Energy saving function, operation adjustment depending on outdoor temperature

Logic	Outdoor temp < Room temp	Room temp < Outdoor temp	Outdoor temp < 10	Outdoor temp > 25
Control	Turn ON ERV (Cool air Intake UP)	Turn ON Air Conditioner	Heating mode	Cooling mode

Useful History Management

- DMS 2 records indoor unit operation and error occurrence history.
- Recorded history makes it convenient to analyze air-conditioner operation and perform unit maintenance.



Operation History

1. Operation On/Off execution time
2. Daily accumulated operation On time
3. Schedule operation execution time

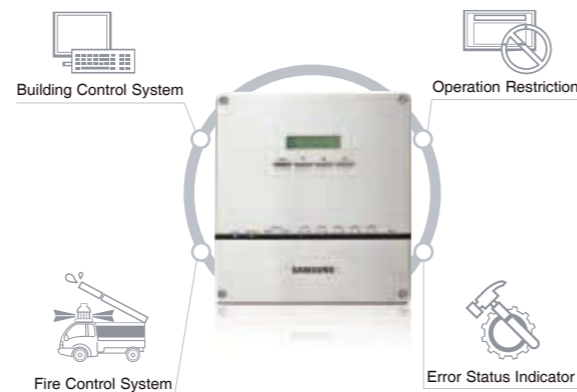


Error History

1. Error occurred unit name
2. Error details
3. Error occurrence/clear time
4. Error state (solved / unsolved)

More Extended Contact Interface

- Interlocking with external emergency system for emergency control
- System operation and error signal output
- Contact input and output for interface with a general purpose device (Maximum of 16 contacts)
- Direct contact output control and input monitoring



Power Distribution System

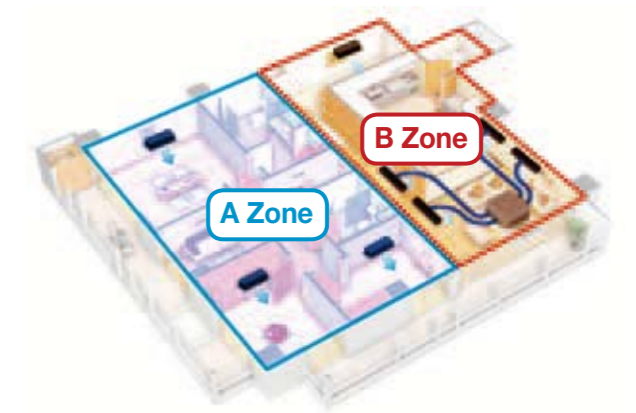
- Power distribution to a maximum of 256 indoor units
- Data query for watt-hour, usage time and usage ratio
- Files are saved in Microsoft Excel format.
- 1-year power distribution data is saved in storage.
- Current actual power consumption monitoring
- Current-type electricity meter support (CT ratio input)



Smart Central Management

- Control & monitoring zone edition
- Wireless/wired remote control restriction
- Temperature limit setting
- Operation mode restriction

- A Zone** Cooling only/No remote controller/ Minimum setting temperature in cooling is 20°C
- B Zone** Cooling only/Remote controller use



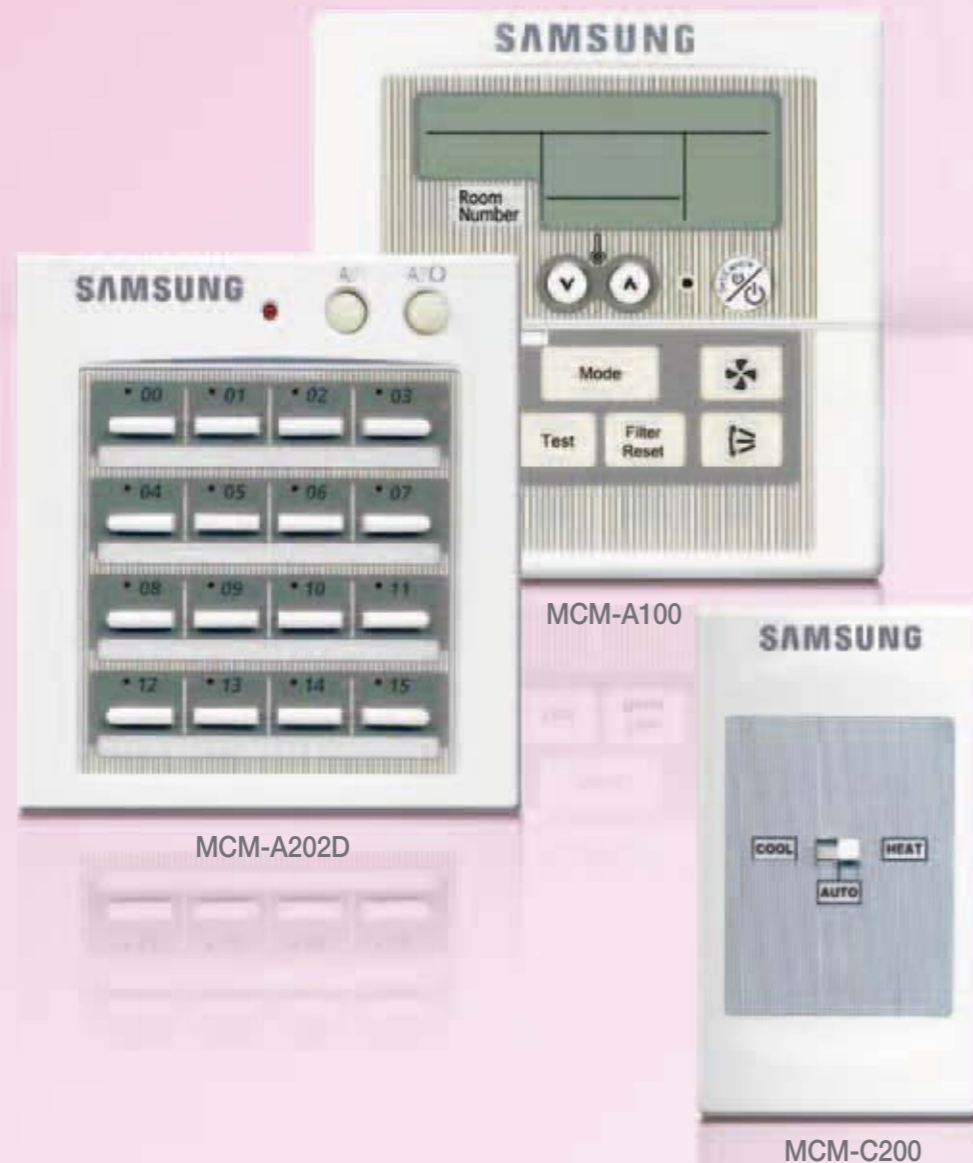
Flexible and Efficient

Centralized Control

The centralized control system offers easy and convenient control of individual indoor units or entire groups of multiple units. You can control and manage multiple functions for the units by using a variety of controllers.

Line-up

- Centralized Controller
- Function Controller
- Operation Mode Selection Switch
- Interface Module



Flexible and Efficient Centralized Control

Centralized Controller

MCM-A202D

- Maximum of 16 group controls (Maximum of 256 Indoor units)
- Unified/Individual indoor unit control (On/Off)
- Wireless/wired remote control restriction
- Cooling/Heating mode control
- Indoor unit error display

MCM-A202D is compatible with MCM-A202A and MCM-A202B



Function Controller

MCM-A100

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature setting
- Error display
- Filter replacement alarm reset
- Control and monitoring of up to 16 indoor unit groups

MCM-A100 must be connected to MCM-A202D to operate.



Operation Mode Selection Switch

MCM-C200

- Operation mode selection (Cooling, Heating or Auto)
- Mixed operation mode protection



Interface Module

MIM-B13D

- Communicator between indoor/outdoor units and the centralized controller



- MIM-B13D must be used when controlling a group of less than 16. (If it is not used for group control, then MIM-B13D has to be used.)

- MIM-B13D supports the DVM, FJM, CAC, ERV and ERV PLUS.

MIM-B13E

- Communicator between indoor/outdoor units and the centralized controller

- MIM-B13E is compatible with MIM-B13A and MIM-B13B.
 - MIM-B13E must be used when controlling a group of more than 16.
 - MIM-B13E supports the DVM, FJM, CAC and ERV. (It doesn't support ERV PLUS.)



Convenient and Simple *Individual Control*

The individual control system has a variety of wired and wireless controllers that enable you to easily control your air conditioners. You can choose the one that best suits your air conditioning environment.

Line-up

- Wireless Remote Controller
- Wired Remote Controller
- Wireless Signal Receiver
- Simplified Wired Remote Controller
- ERV Wired Remote Controller
- External Room Sensor
- 7day Scheduler



MR-DH00



MWR-WH0*

MWR-WE10

Simple and Convenient Individual Control

Wireless Remote Controller

MR-DH00

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature Setting
- Filter replacement alarm reset
- Simple schedule control
- Wide display
- Soft touch button
- Individual blade control (supports specific indoor unit models)
- Multi-channel wireless remote control (maximum of 4 channels)



Wired Remote Controller

MWR-WE10

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature Setting
- Individual and group control (Maximum to 16 indoor units)
- Error display
- Filter replacement alarm reset
- Sleep & Silent mode
- Built-in Room Temperature sensor
- Child lock
- Automatic stop mode
- Wireless remote control restriction
- Clear & Bright screen with LCD backlight
- Unified controller (AC, ERV, ERV PLUS, AHU)
- Different permission levels
- Weekly schedule setting (A/C, ERV, A/C+ERV)
- Exception date setting
- Individual blade control (Supported the specific indoor unit models)
- Summer time



MWR-WH0*

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature Setting
- Built-in Room Temperature sensor
- Child lock
- Automatic stop mode
- Sleep & Silent mode
- Simple schedule control
- Different permission levels



Wireless Signal Receiver

MRK-A00

- On/Off control
- Operation indication
- Error Indication
- Filter replacement sign
- Use with receiver wire, MRW-10A

Simplified Wired Remote Controller

MWR-SH00

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature Setting
- Individual and group control (Maximum of 16 indoor units)
- Error display
- Filter replacement alarm reset
- Mode selection protection

ERV Wired Remote Controller

MWR-VH02

- Individual and group control (Maximum of 16 ERVs)
- On/Off control
- Operation Mode (By-Pass, Heat Exchange), Fan Speed
- Simple schedule control
- Error display
- Synchronized operation with indoor units

External Room Sensor

MRW-TA

- External sensor to sense exact user environment temperature
- Wire length : 12m

7day Scheduler

MWR-BS00

- Up to 100 weekly and daily schedule settings
- Schedule setting based on 1-minute time units
- Digital clock display
- Permanent schedule setting storage
- Current time protection from blackout (maximum of 3 days)
- Use with wired remote controller or centralized controller (MCM-A202D)



Unitive and Various

Building Management Module

The Building Management System provides various control functions to integratedly manage the building air conditioning system. These modules make it easy to control and manage various system equipment as well as the air conditioners to offer efficient and economical operating environment.

Watt-hour Meter Interface Module



LonWorks gateway



BACnet gateway



BACnet gateway

MIM-B17 (DMS-Bnet)

With the BMS control and monitoring function, BACnet gateway makes it easy to control the air conditioning network in various ways. BACnet gateway can control up to 256 indoor units, used in combination with S-NET 3 and S-NET Mini.

- Interface for BACnet management system
- Maximum 256 indoor units plus ERVs support with a maximum of 80 interface modules
- Combinational use of BACnet and S-NET 3/ S-NET Mini
- Includes DMS 2 functions



Control

- On/Off control
- Operation mode
- Temperature setting
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm reset
- User control restriction
- Operation mode lock
- Set temperature limit
- Emergency stop
- Output contact control

Monitoring

- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction
- Thermo On/Off
- Power distribution
- Operation mode lock
- Set temperature limit
- In/Out contact state
- Emergency stop
- Error code

LonWorks gateway

MIM-B18 (DMS-Lnet)

LonWorks gateway is an interface for Lon-Connection to LonWorks management system, providing you with a more convenient way to manage your air conditioning system. It can control a maximum of 128 indoor units, used in combination with S-NET 3 and S-NET Mini.

- Interface for Lon-Connection to LonWorks management system
- Max. 128 indoor units plus ERVs support with a maximum of 80 interface modules
- Combinational use of LonWorks and S-NET 3/ S-NET Mini
- Includes DMS 2 functions



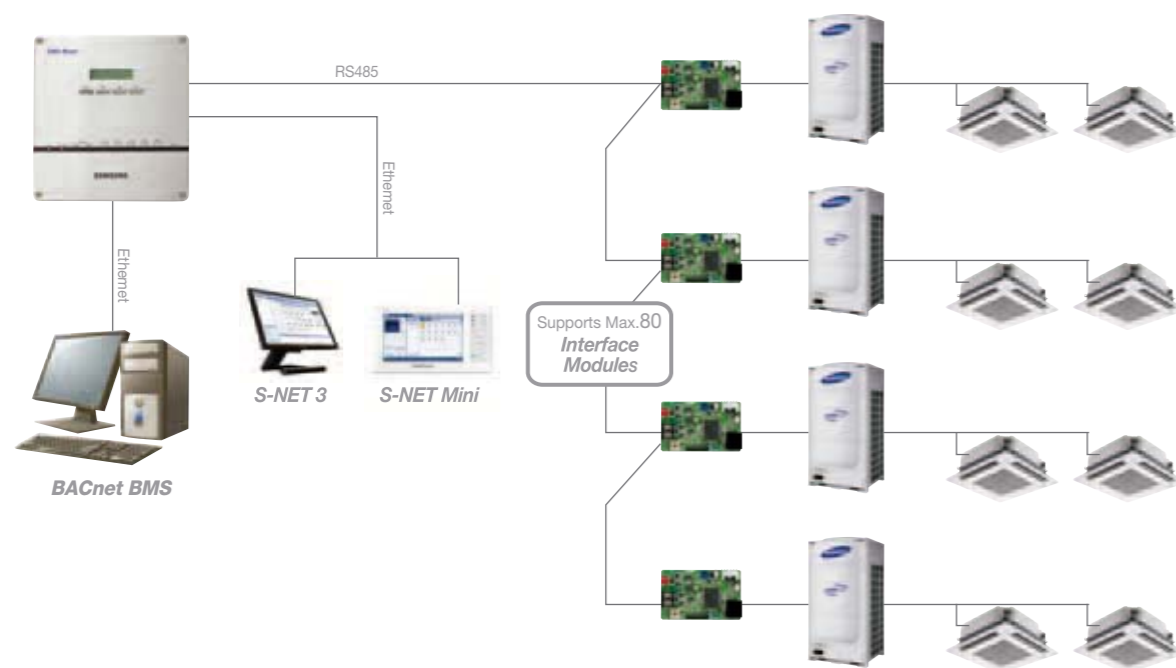
Control

- On/Off control
- Operation mode
- Temperature setting
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm reset
- User control restriction
- Operation mode lock
- Set temperature limit
- Emergency stop
- Output contact control

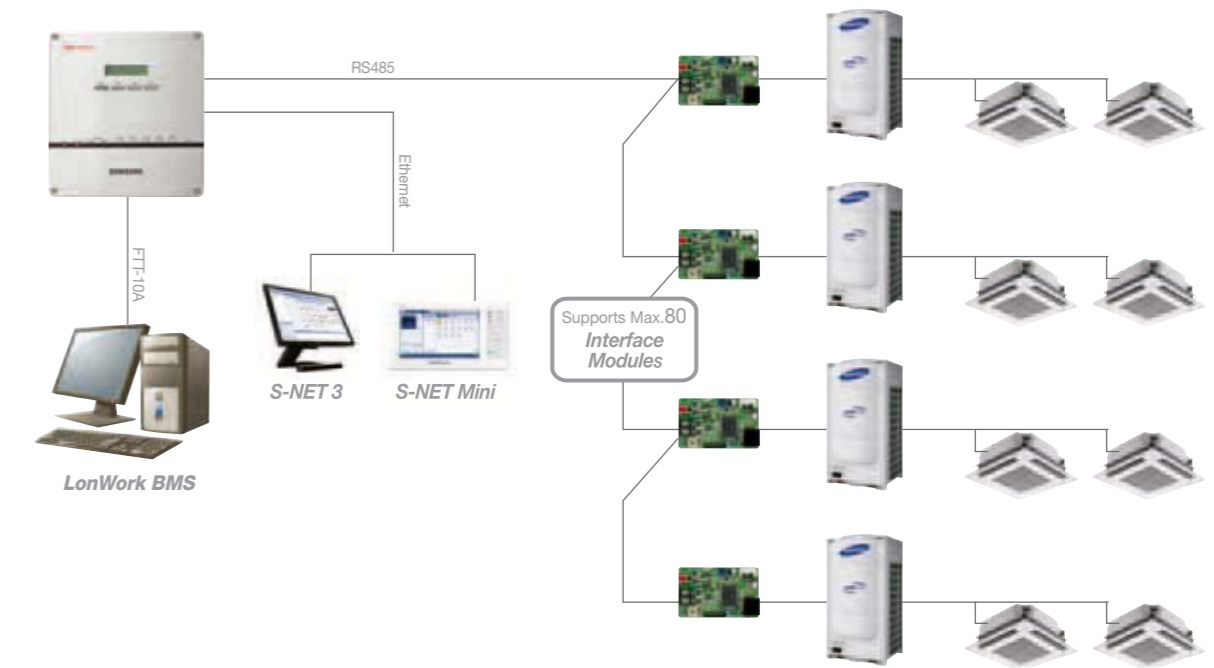
Monitoring

- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction
- Thermo On/Off
- Power distribution
- Operation mode lock
- Set temperature limit
- In/Out contact state
- Emergency stop
- Error code

Connection



Connection



Watt-hour Meter Interface Module

MIM-B16 PIM (Pulse Input Module)

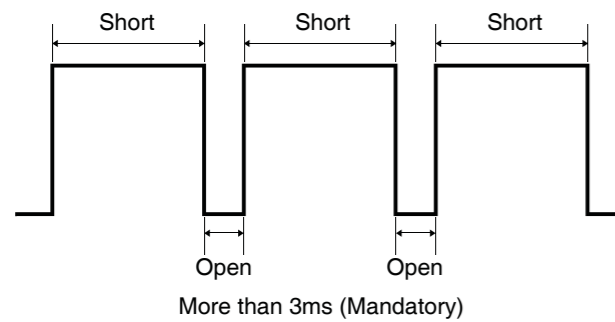
Watt-hour Meter Interface Module can be exclusively used for DMS 2 power distribution, displaying power consumption for each watt-hour meter.

- Exclusive use for DMS 2 power distribution
- Connection with up to 8 watt-hour meters
- Pulse interface with watt-hour meters
- Power consumption display for each watt-hour meter

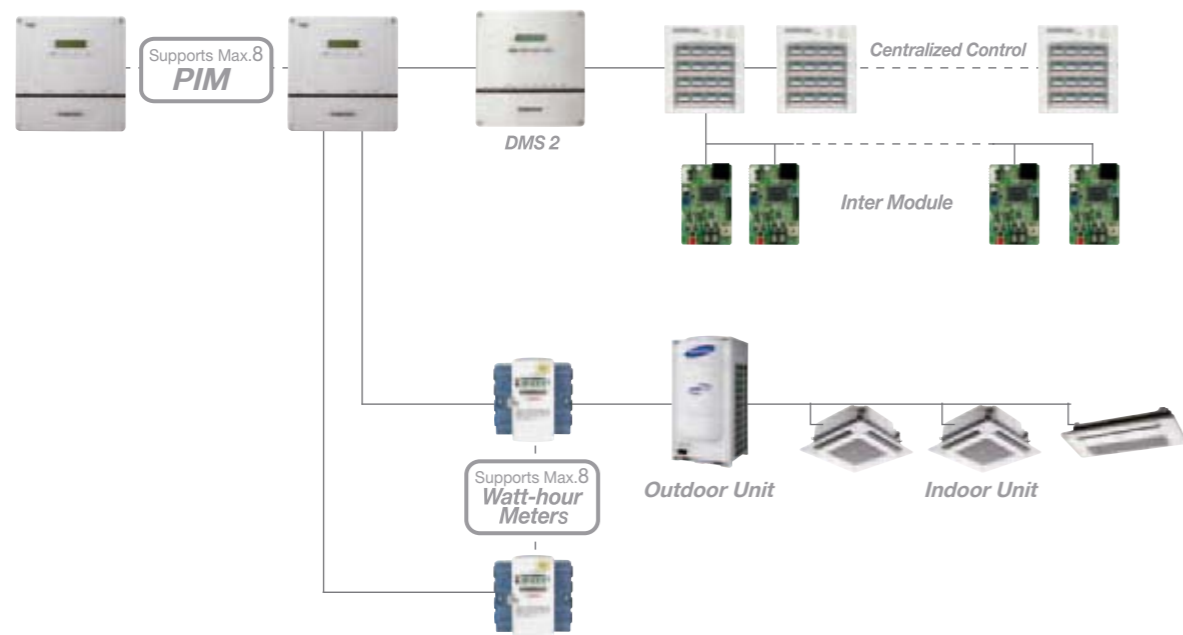


Connectable Watt-hour meter with PIM

- Wh/Pulse Range : 1~10000 Wh/Pulse (no decimal place)
- Pulse Width Range : 20~400ms
- Interval between Pulses : Minimum of 3ms



Connection



Energy Conservational

Guestroom Management Module

Guest Room Management system saves you energy and money on cooling an unoccupied room: the air-conditioner is activated when Key-Tag is in place and turns off when Key-Tag is removed.

Key Tag Interface Module

MIM-B02

- Indoor unit control by external contact signals
- Individual / Group control of up to 16 indoor units
- Combinational use with sensor / timer / emergency inputs

Example



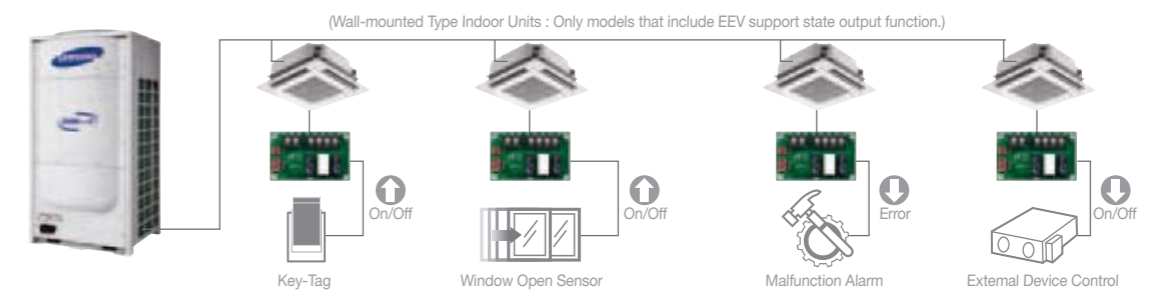
External Contact Interface Module

MIM-B14

- Direct indoor unit control by external contact signal
- Window-synchronized indoor unit control
- Emergency control with simple contact input
- Indoor unit operation / error state output through relay contacts



Example



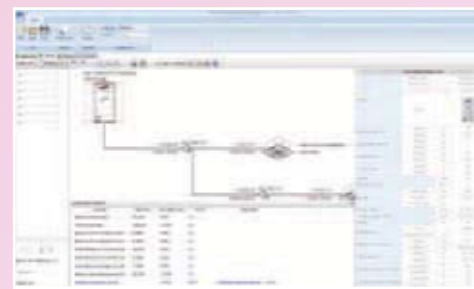
Advanced and Versatile *NEW DVM-Pro*

New DVM-Pro is an advanced design automation tool that can be used in AutoCAD-based CAD mode or Windows-based Sales mode. This new program helps you in selecting system air conditioner equipment so that you can easily and precisely design your air conditioning system.

Sales mode

- Indoor Unit & Outdoor Unit : Indoor unit and outdoor unit connection with accessory
- Piping : Basic or manual selection with system check and capacity simulation
- Wiring : Automatic diagram with communication wiring of indoor/outdoor/control units and electric power meters
- Control system: Automatic control unit selection
- Report : Specifications, diagrams with DWG & BMP format, quotation

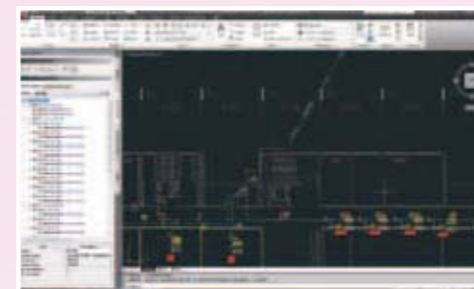
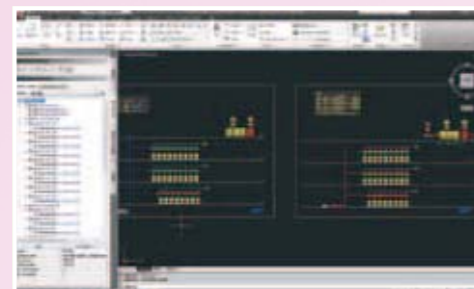
Download! www.dvmsystem.com ➔ Download Center ➔ Software ➔ NEW DVM-Pro



* Contact the administrator for authorization to download the program.

CAD mode

- Quick, Easy, Precise Design
- AutoCAD add-on software (AutoCAD is not included in New DVM-Pro)
- Automatic Calculation : Refrigerant & drain pipe size
- Automatic Selection : Refnet joint, header & distributor kit
- System Check : Installation regulation & refrigerant addition
- Easy Control System Selection
- Automatic Report : Piping installation diagram, equipment list & quotation



Contact to Samsung HQ or Distributors for NEW DVM-Pro!

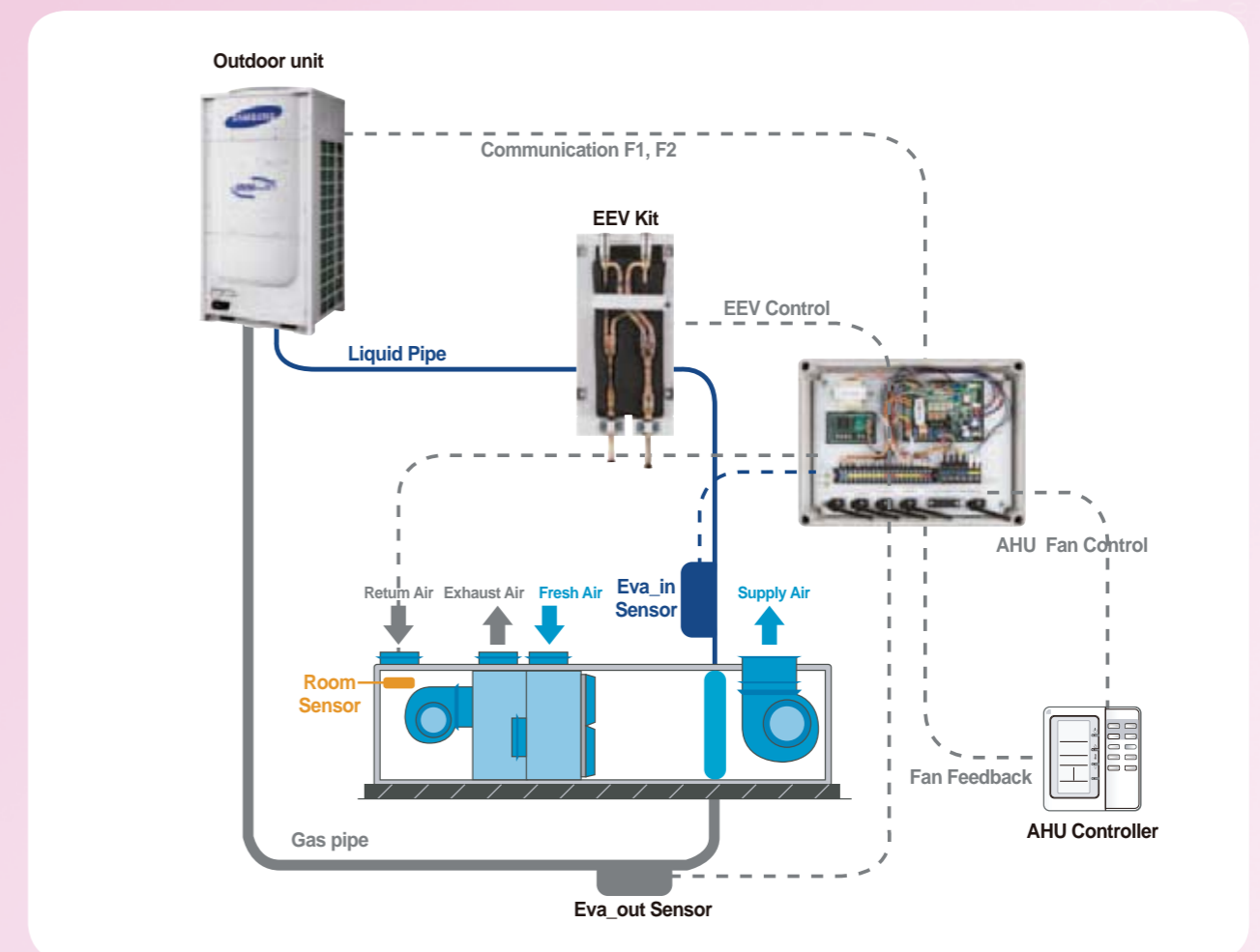
Efficiency Improving *AHU Kit*

AHU kit allows DVM PLUS IV outdoor units to connect to AHU (Air Handling Units), which results in energy savings and improvement in performance and efficiency.

Features

MXD-A16K1X025A / A22K1X050A / A22K2X075A / A22K2X100A

- IP54 is satisfied
- Variable Capacity
- 2.5HP / 5HP / 7.5HP / 10HP
- Simple BMS can be applied
- 0~10V control





Eco Heating System

Introducing Greener Heating

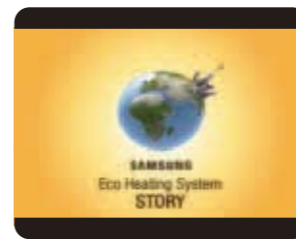


The Perfect Climate Control Solution for Your Home

Samsung EHS is an all-in-one system that uses highly efficient heat pump technology; this keeps your house at a comfortable temperature and your heating and cooling costs low all year round! This economical and ecological system not only lowers energy costs and CO₂ emissions, but also provides various combinations of air and water solutions for heating and cooling that satisfy different user needs throughout all four seasons.

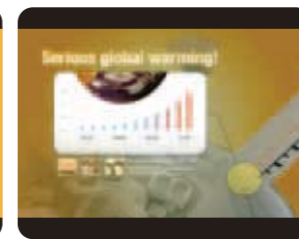
and CO₂ emissions, but also provides various combinations of air and water solutions for heating and cooling that satisfy different user needs throughout all four seasons.

Samsung EHS story



The EHS Story

Samsung's new economical and ecological domestic heat pump system can be integrated into your home to provide heating, hot water and air conditioning with only one system.



Global Warming

Human activity has resulted in an increase in Greenhouse gas emissions (CO₂).



Oil is Running Out!

As the price of oil rises, we will need to turn to renewable energy resources.



Unsustainable Resources

Rising oil prices have caused the operating costs of heating a home to increase.



EHS System

Samsung EHS product is a highly efficient, all-in-one heat pump system that takes up limited space as an outdoor unit, and saves you money in operating costs.



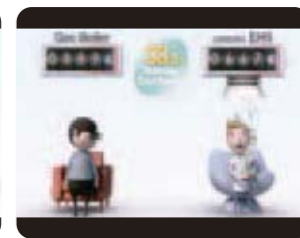
Rapid Air Heating

During winter operation, Samsung EHS Air-conditioning combined with underfloor heating provides a rapid & efficient response to the demand for heating by the user.



Air Cooling

During summer operation, the integrated high efficiency air conditioning system can be operated in cooling mode to create a more comfortable living environment.



Cost Saving

Samsung EHS, with its industry leading operating efficiencies, can reduce your operational costs by up to a third when compared to standard gas boiler systems.

What is a heat pump?

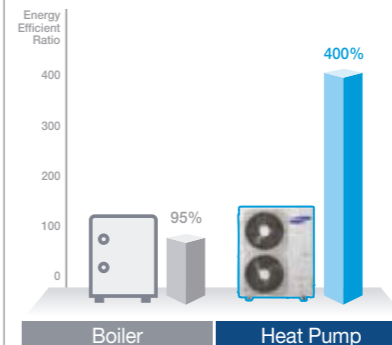
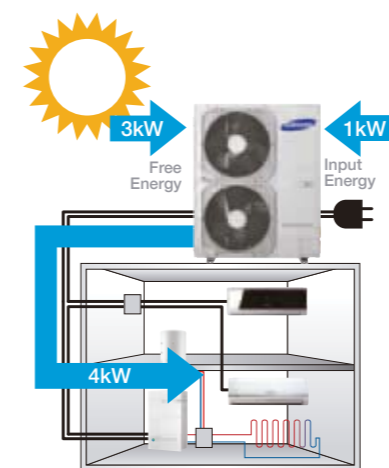
A heat pump is an energy efficient system that uses the heat from the ambient air for heating and hot water.

Using a heat pump system for basic heating and hot water in your home is an energy efficient and environment-friendly solution.

How does it work?

By using the ambient air and transferring this heat into the house through a hydronic system, such as underfloor heating, a heat pump requires less power input and offers greater power output than conventional boilers.

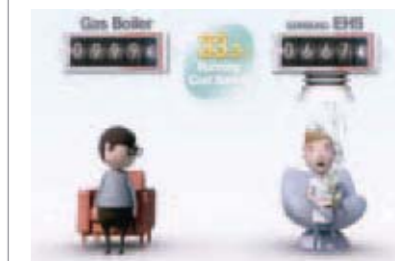
For every 1kWh of energy input, a heat pump can deliver up to more than 4kWh in energy output. This is an energy efficiency ratio of more than 400%, which is superior to high energy efficiency boiler systems. Since conventional boiler systems can only reach an efficiency ratio of up to 95%, they consume more energy than they can ever deliver.

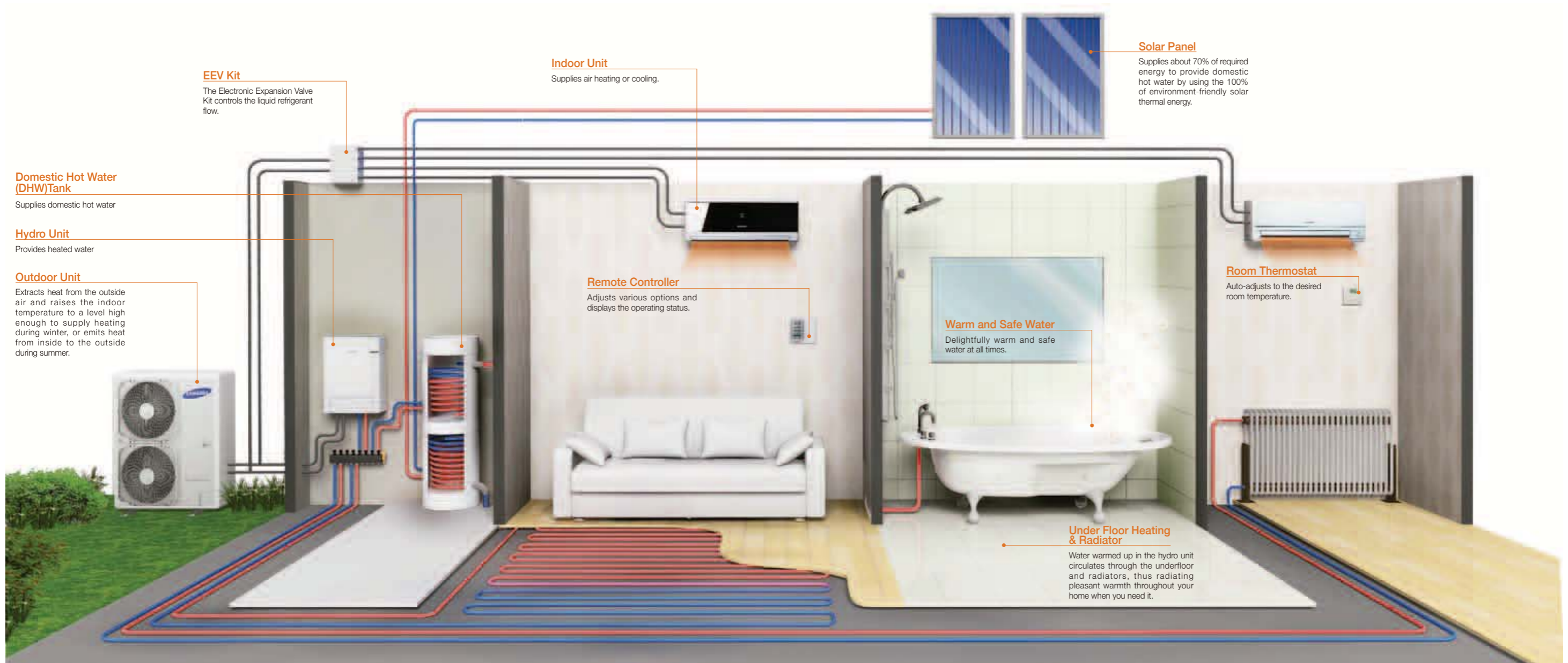


What are the benefits?

Using a heat pump system for basic heating and hot water in your house is an energy efficient and environment-friendly solution. The most noticeable advantage of energy efficiency is a big reduction in your energy bills.

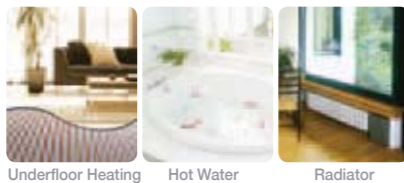
EU has defined heat pump systems as renewable energy products. Under this classification, the end users can apply for government subsidies or tax refunds when installing heat pump systems. You can contact our local installers to find out if you can also apply for the government benefits.





Air-to-Water

This is the ideal cost efficient heating system in which the heat from outside is used to heat the floors and water in your home.



Air-to-Air

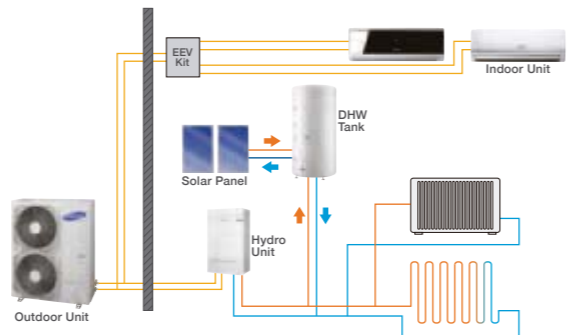
This feature brings comfort to your home by quickly calibrating a stable temperature level. It can also be used for cooling in the summer and heating in the winter.



Installation Diagram

1 Air-to-Air + Air-to-Water

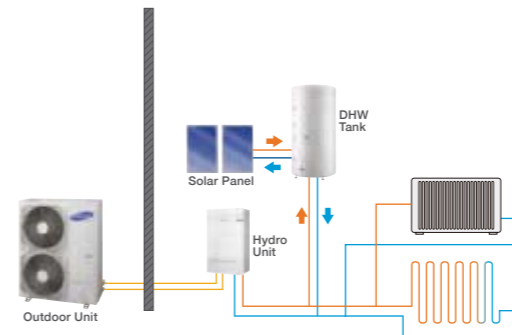
- Outdoor Unit + EEV Kit + Indoor Unit
- Outdoor Unit + Hydro Unit + Underfloor Heating + Radiator + DHW Tank + Solar Panel



* Solar Panel, Back-up Boiler, and DHW Tank are Optional.

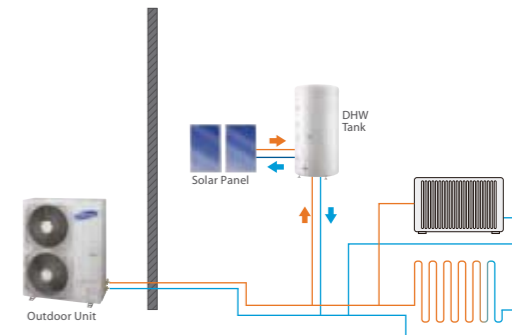
2 Air-to-Water (Split Type)

- Outdoor Unit + Hydro Unit + Underfloor Heating + Radiator + DHW Tank + Solar Panel



3 Air-to-Water (Mono Type)

- Mono Unit + Underfloor Heating + Radiator + DHW Tank + Solar Panel



Operation Cost Reduction of up to

33.3%

Initial Price and Space Savings of

50%

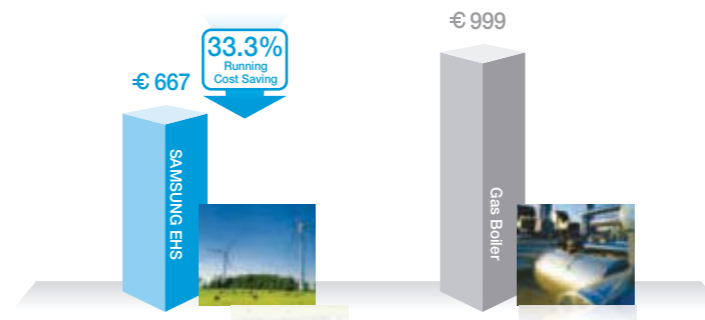
High Performance of

90%

at -10°C

Air-to-Water Running Cost Reduction of up to 33.3%

The Samsung EHS, known for its world class efficiency (11kW floor heating system with COP of 4.55), can reduce 33.3% of your running costs compared to a conventional gas boiler.



Cost and Space Reduction of up to 50%

With an all-in-one outdoor unit capable of both air-to-water and air-to-air functions, Samsung EHS creates savings for you in terms of the initial purchase cost & installation fee, as well as the space needed for an extra outdoor unit.



High Performance at Low Temperature

Samsung EHS is comprised of an inverter compressor that is optimally operated according to the outdoor temperature, offering 90% heating performance at -10°C and reliable anti-freezing protection at -20°C.

Remote Controller Gives You Easy and Abundant Options

Smart user interface technology has been integrated into Samsung EHS to allow easy and convenient control of the cooling and heating system at home. This control allows one-touch access to energy consumption statistics and monitoring of other components (Solar Panel, Back-Up Boiler, etc.).

- Simple Stand-by Function at Outing**
The system in "stand-by mode" stops all functions, except for the function that prevents the pipes from breaking/bursting due to weather changes. This system can also maintain the desired temperature in your home, even when you are out.
- Real-time Energy Consumption Display**
The 5 Eco-level bar indicator displays the level of energy consumption (Solar Panel, Back-Up Boiler and Back-Up Heater of the hydro unit).
- Solar Panel and Back-up Boiler "Work in Progress" Display**
The system indicates when Solar Panel and Back-up Boiler are in the process of hybrid heating.
- Automatic Anti-Freezing Function**
When the house is left unattended for an extended period during the winter and the temperature outside goes down, the system automatically runs its heat pump to keep the water flow above the sub-freezing point.

Environment Friendly

Continuous Steady Temperature

Air to Water

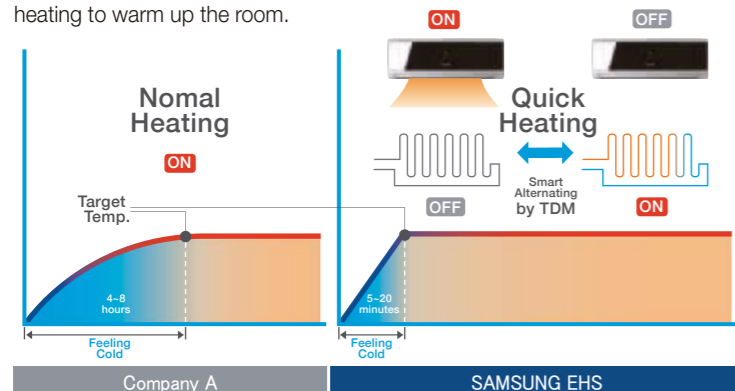
Quick Response!

Air to Air

+ Domestic Hot Water Tank
+ Thermostat
+ Pump
+ Solar Panel
+ Back-Up Boiler

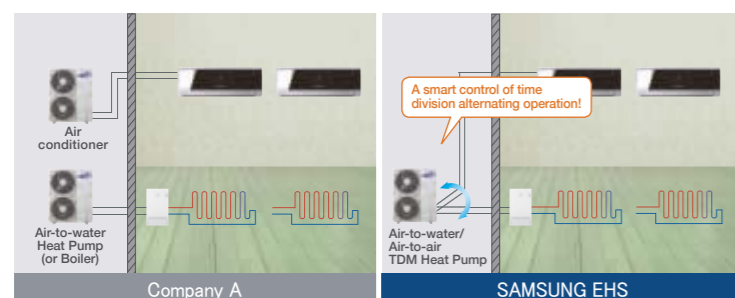
Quick Heating by TDM Technology

Floor heating is well known as an optimal heating option for indoor thermal comfort, but it usually takes 4~8 hours to heat up the room. Samsung EHS TDM technology speeds up this process by blowing hot air along with floor heating to warm up the room.

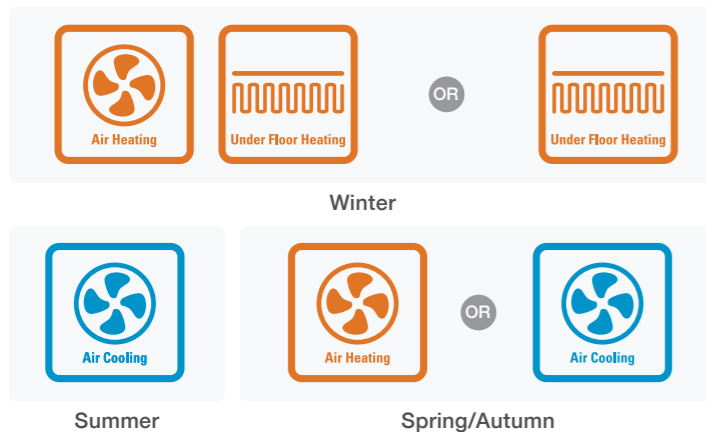


Integrated Heating & Cooling System at Lower Cost

Time Division Multi (TDM), a smart alternating operation between air-to-water and air-to-air, enables one outdoor unit to operate both functions, resulting in a lower product cost and smaller units that take up less space.



Typical Seasonal Usage



Flexibility

Samsung EHS can be implemented with other optional products: further increase your indoor system's versatility by adding a Domestic Hot Water Tank, Thermostat, Pump, Solar Panel, or Back-Up Boiler.

Memo

2012 SAMSUNG SYSTEM AIR CONDITIONER

Memo

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Source Material for 2012 Samsung SAC Catalogue

This is a source material for 2012 Samsung System Air Conditioner Catalogue that is provided globally. Modify and publish this catalogue according to each subsidiary's circumstances after consulting with the head office.

VOC Registration

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

Guide to File Format

- This catalogue is produced in Adobe Indesign CS5.5 and Illustrator CS5.1 and it cannot be modified via QuarkXPress. You can modify this catalogue in Adobe Indesign CS 4.0 as well by opening the file with IDML extension.

* Product features and specifications in the publication can be changed without a prior notice. Because there is always an ongoing improvement on our product.



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2012 SAMSUNG

AIR CONDITIONER **ICONS**

Samsung air conditioners offer advanced performance of cooling.

Cassette Type Icon



Wide Blade

Wider blades provide more even cooling power.



NO! Dust

Newly designed panel prevents dust build-up on ceiling.



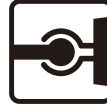
Fresh Air

Optional air intake motor brings in fresh air from outside.



High Lift-up

Lift-up condensed water up to 750mm, which is higher than our competitors' limit.



Quick Pipe

Unique drain pipe connection is easy to install.



Sub Duct

The Sub Duct makes it easy to provide air conditioning to a nearby smaller space.

Duct Type Icon



Anti-Virus Filter

Anti-virus Filter traps dust particles and suppresses proliferation of mold and bacteria.



Easy Filter

Filter cleaning indicator will let you know when the filter needs to be cleaned.



High Lift-up

Lift-up condensed water up to 750mm, which is higher than our competitors' limit.



Smart Control

Adjusts fan speed to provide constant cooling and heating performance.



Wired RC

Default wired remote controller is provided.

Wall-mounted Type Icon



S-Plasma ion

S-Plasma ion eliminates biological contaminants in the air such as viruses, bacteria, and dust.



Full HD Filter

Samsung's Full High Density Filter blocks out dust, allergens, and bacteria.



DNA Filter

The DNA structure absorbs and eliminates microscopic carcinogenic agents.



Deodorizing Filter

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



Catechin Filter

Catechin in the filter deactivates captured bacteria and unpleasant odors.



Smart Inverter

Smart inverter maintains ideal temperature without constantly turning the compressor on and off.



Smart Saver

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



d'light Cool

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



good'sleep

good'sleep automatically adjusts temperature and humidity so you can enjoy a good night's sleep.



Wide Twin Blade

Samsung's Wide Twin Blades provide a more effectively controlled air flow.



3D Wind

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



Turbo Cooling

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



Auto Roof Shutter

Air conditioner automatically seals off to prevent dirt infiltration.

Console & Ceiling



Interior Design

This clean, modern design complements any decor.



Anti-virus Filter

Anti-virus Filter traps dust particles and suppresses proliferation of mold and bacteria.



Lightweight

Lightweight makes maintenance and installation easy.



Flexible

The pipe can be installed in 6 different places for more placement options.



Silent Mode

Indoor and outdoor unit operates silently.



Wireless RC

Default wireless remote controller is provided.