

SAMSUNG

SYSTEM

AIR CONDITIONER

COLLECTION



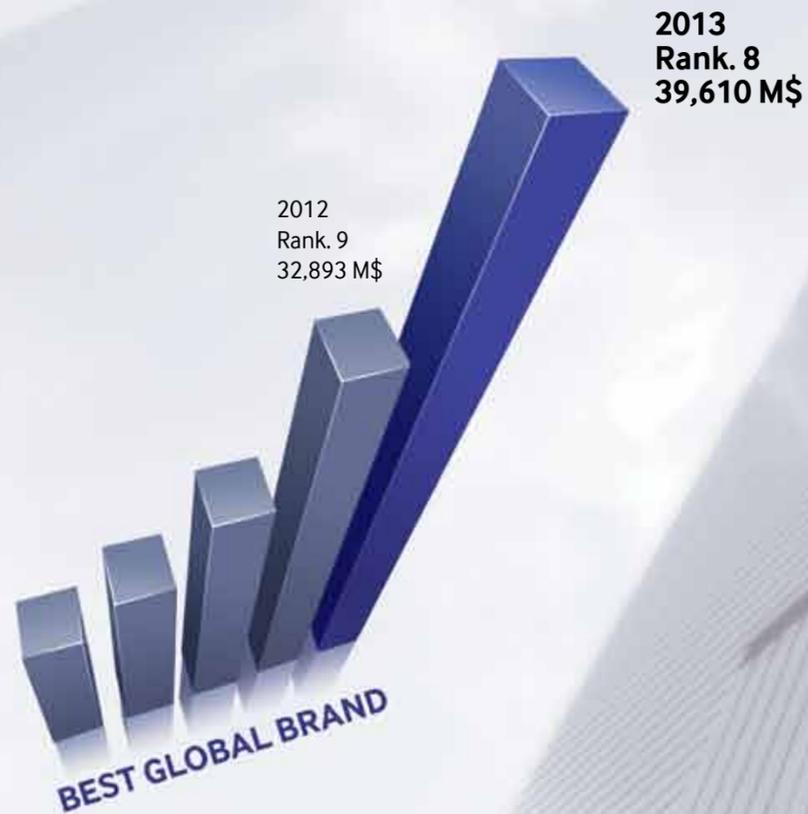
Samsung Electronics Co., LTD
Head Office(Suwon Korea) 416, Maetan-3dong,
Yeongtong-gu, Suwon-City, Gyeonggi-do, 443-742, Korea



Samsung is moving ahead and with our customers

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

- Sue Shim CMO (Chief Marketing Officer), SAMSUNG



Global Business Network



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.

Samsung Eco-Friendly Air Conditioner

Samsung is committed to providing eco-friendly air conditioners and air solutions that help prevent global warming and contribute to the resolution of energy shortages. Through these efforts, Samsung is striving to preserve the surrounding environment and to share sustainable growth with local communities.



Air & Water Conservation

Making continuous efforts to stay eco-friendly, Samsung air conditioners use R-410A, an environment-friendly refrigerant to help rid the air of pollutants and restrain the use of materials with high global warming potential(GWP).



Use Less, Save More

With the advanced Smart Inverter technology, Samsung air conditioners provide powerful and comfortable cooling with minimum electric consumption which means that you save money and reduce energy waste. This energy-efficient technology also protects the environment to accommodate the 'go green' trend.



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.



Globally Recognized!

SAMSUNG Air Conditioners



Galeria de Innovacion 2009

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



iF Product Design Award 2009

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



Comfort & Design 2010

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



Good Design Award 2011

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



Global Reference Sites

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_France
Project_Hotel



Location_Turkey
Project_University



Location_Czech Republic
Project_Apartment Building



Location_Turkey
Project_Hotel



Location_China(Tianjin)
Project_Apartment, Office



Location_India
Project_Fathe Prakash Palace



Location_China
Project_International Airport



Location_Korea
Project_Soccer Stadium



Location_Saudi Arabia
Project_Medical Clinic



Location_Turkey
Project_Office building



Location_Turkey
Project_Office Building



Location_Slovenia
Project_Utility Company



Location_Qatar
Project_Office Building



Location_U.A.E
Project_Residential Building



Location_Austria
Project_Cityhall Traiskirchen



Location_China(Nanjing)
Project_Office



Location_China(Qingdao)
Project_Office



Location_South Africa
Project_Hotel



Location_Croatia
Project_Office & Residential Building



Location_Germany
Project_Business Park



Location_Vietnam
Project_Hotel



Location_China(Beijing)
Project_Industry & Technology Park



Location_Vietnam(Hanoi)
Project_Viet Han Tower



Location_Korea(Songdo)
Project_World Mark



Location_Turkey(Istanbul)
Project_Mall of Istanbul



Location_Turkey
Project_Princess Resort



Location_China
Project_Business Park



Location_Korea
Project_Residential Building



Location_Vietnam
Project_Hotel



Location_Australia(Sydney)
Project_St. Joseph School



Location_U.K(Edinburgh)
Project_Sheraton Hotel



Location_Kenya(Mombasa)
Project_English Point Marina

2014 SAMSUNG System Air Conditioner

Contents

01 Introduction

Brand Value
ECO-Friendly
Award
Global Reference Sites

02 Outdoor unit

VRF System
FJM System
SINGLE System

03 Indoor unit

Cassete Type
Ducted Type
Wall-Mounted Type
Console & Ceiling Type

04 ERV system

ERV Plus
ERV

05 Control system

Integrated Management
System Controller
Building Management
Applications

06 ECO Heating system

Outdoor Unit

Experience the Power

VRF 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 For Spacious 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.

SINGLE 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.



DVM S

DIGITAL VARIABLE MULTI

DVM S is a highly innovative system that adopts the new 3rd generation SSC(Samsung Scroll Compressor) technology. With its Dual Digital Inverter, DVM S provides the world top class energy efficiency and the most powerful cooling and heating performance. This is a perfect air conditioning system that satisfies all variable environments including large buildings.

VRF FUM SINGLE



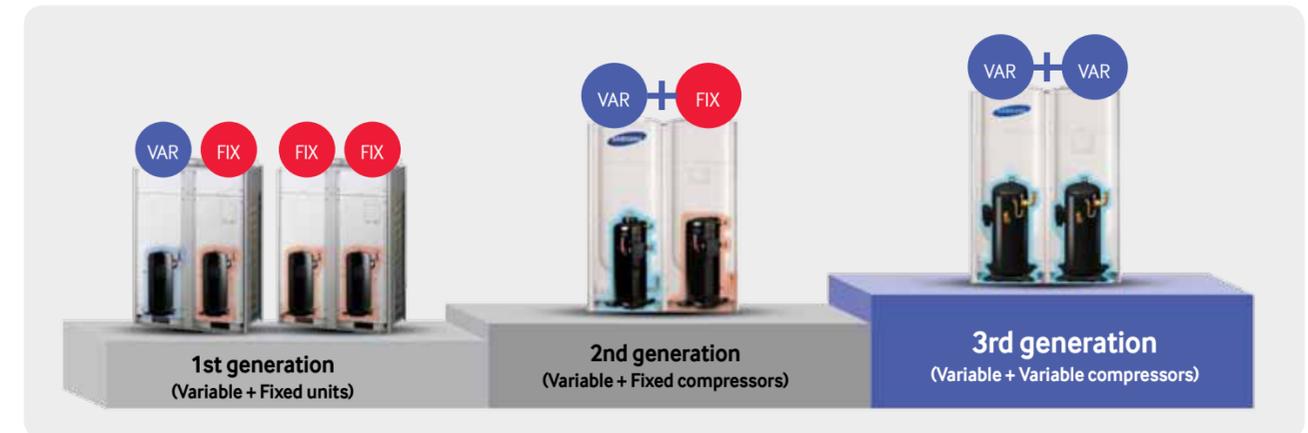
- Features**
- Innovative Technology
 - High Efficiency
 - Smart Management
 - Flexible Installation
 - Comfortable & Reliable Operation

Innovative Technology

Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.

The 3rd Generation Technology

Samsung's new 3rd generation technology adopts dual inverter compressors and an upgraded vapor injection system which surpasses the performance of previous versions of the system. This optimizes energy efficiency, providing energy savings.



Dual Digital Inverter

The Innovative Dual Digital Inverter has both compressors operate simultaneously, and it provides balanced oil distribution, quick cooling and heating, and better energy efficiency.

Dual Digital Inverter

Inverter + Inverter

- Simultaneous operation
- Balanced oil distribution
- Quick cooling & heating
- Higher efficiency

The 3rd Generation Vapor Injection System

Upgraded vapor injection system within the compressor increases the refrigerant flow rate by 20% compared to the conventional products.



Outdoor units

Innovative Technology

Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.

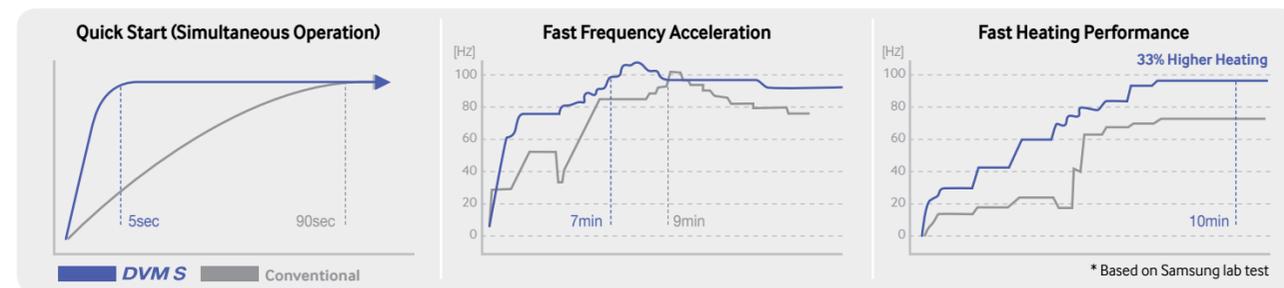
DDI(Dual Digital Inverter) System

The 3rd generation innovative system, Dual Digital Inverter, adopts a dual inverter compressor that upgrades refrigerant flow and the motor's operating performance. This unique Dual Digital Inverter achieves unsurpassed energy efficiency.



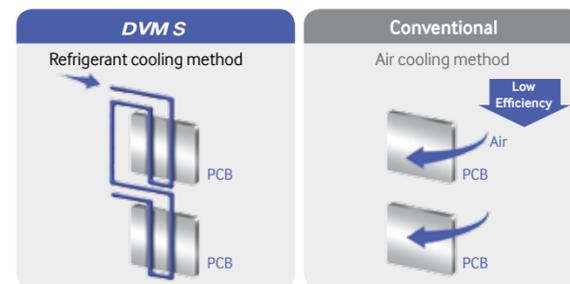
Quick Cooling & Heating

With compressor speed acceleration and simultaneous starting, DVM S provides quick cooling and heating performance.



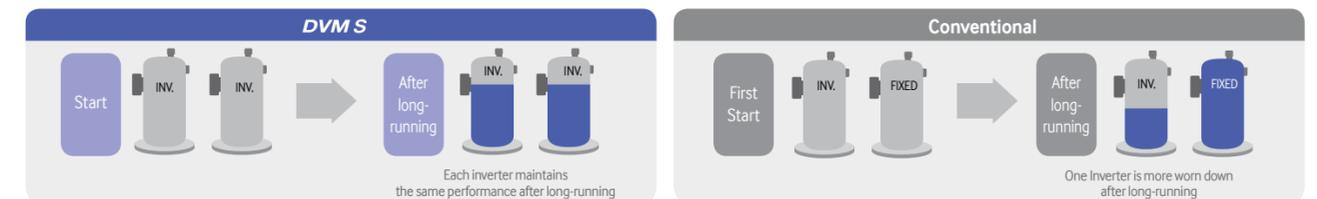
Refrigerant Cooling System

Refrigerant cooling system is not affected by the ambient temperature. Using refrigerant cooling system, DVM S ensures better stability than conventional air cooling system.

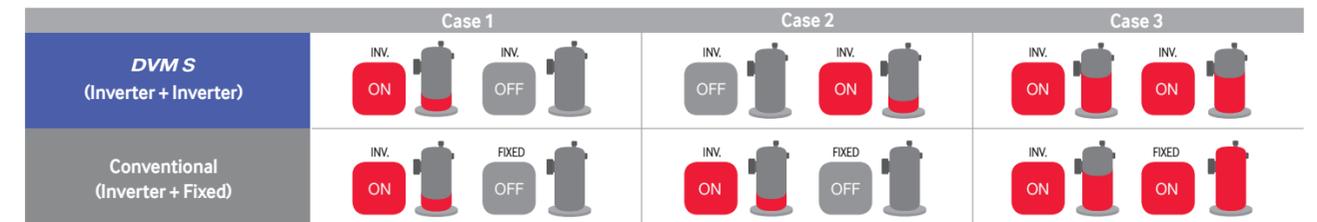


Enhanced Compressor Durability

In the conventional system composed of inverter and fixed compressors, one compressor operates longer than the other which results in one compressor wearing down faster. This in fact decreases compressor durability and life span. However in DVM S's Dual Digital Inverter system, each compressor operates in unison with the other so the overall compressor durability is preserved for a longer time.

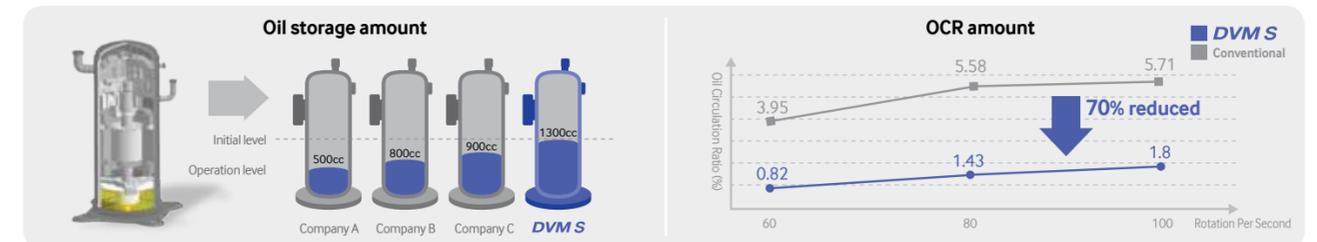


Thanks to fine capacity control, the DDI (Dual Digital Inverter) responds to subtle indoor load changes, which allows you to save energy cost.



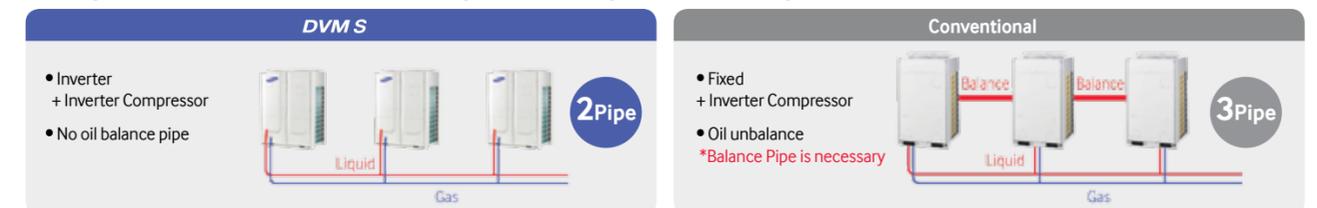
Large Oil Storage Capacity

With large oil storage and low OCR, DVM S can secure reliability even in case of installation with long piping and high elevation. *OCR (Oil Circulation Ratio)



Auto Oil Balancing

Samsung DVM S ensures stable and equal oil balancing without requiring an extra oil balancing pipe.



High Efficiency

To meet worldwide customer needs, Samsung continues to develop optimized air conditioners which offer high quality performance and great energy efficiency.

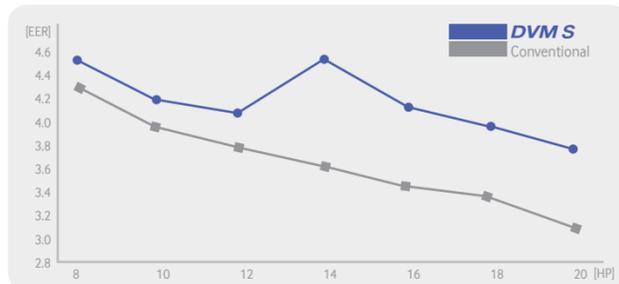
Top Class Energy Efficiency

DVM S has achieved top class energy efficiency by adopting a dual inverter compressor with vapor injection system. Therefore, it gives you powerful, quick cooling and heating with minimum energy consumption.



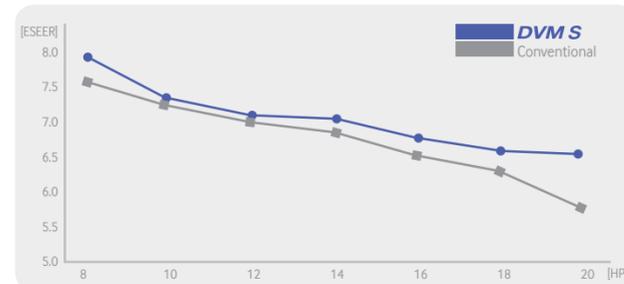
EER (Energy Efficiency Ratio)

DVM S has achieved superior EER which far surpasses competitor's EER at all range. On average, DVM S has 13% higher EER than competitor.



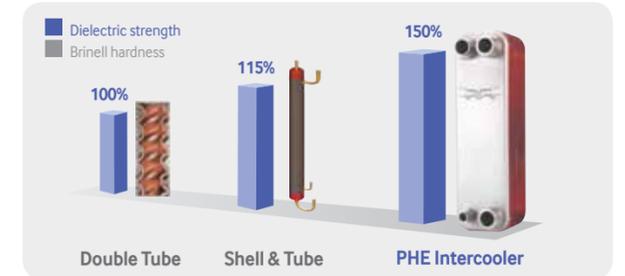
ESEER (European Seasonal Energy Efficiency Ratio)

DVM S's ESEER also surpasses competitor's ESEER at all range. On average, it has 4% higher rate than competitor.



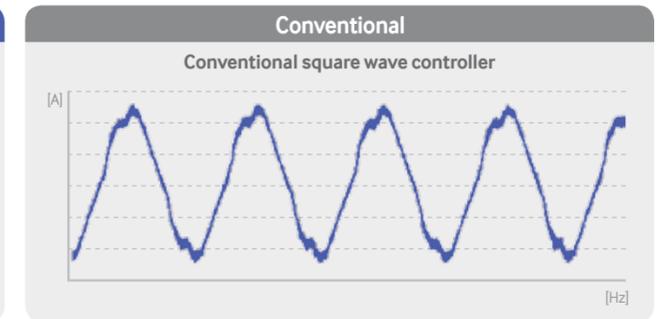
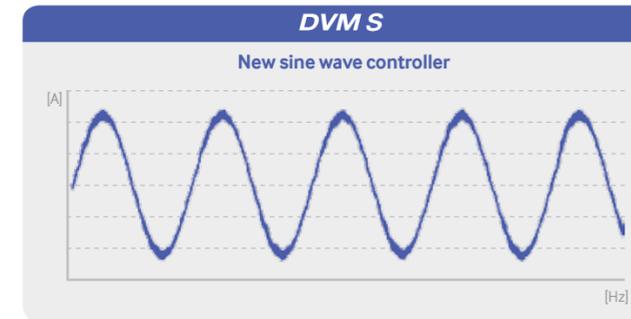
PHE (Plate Heat Exchanger)

Plate Heat Exchanger type intercooler is adopted on DVM S to improve cooling and heating efficiency. Heating efficiency with PHE has been improved by about 30% compared to conventional products with the Shell & Tube type intercooler and by 50% compared to competitors' products with the Double Tube type intercooler.



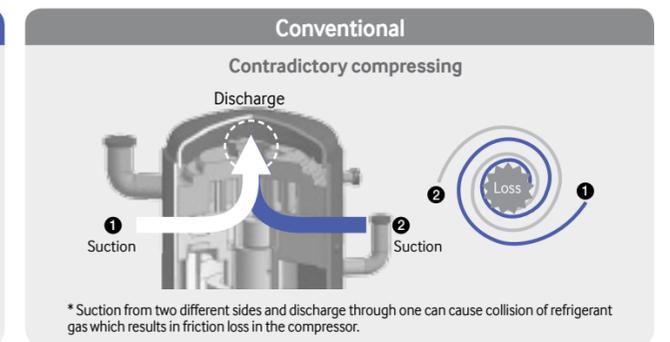
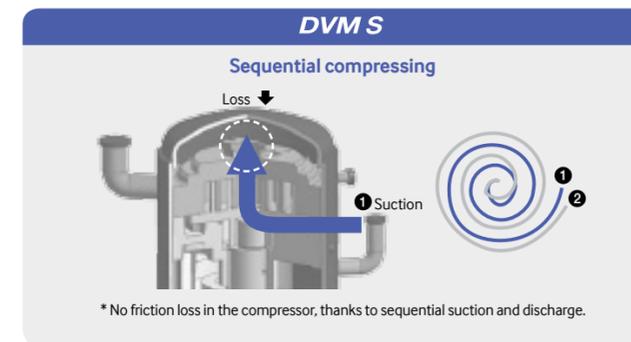
Adaptive Sine Wave Control

Adaptive sine wave control can reduce THP (Total Harmonic Distortion). Therefore DVM S doesn't need to use shield wiring for communication.



Asymmetric Scroll Design

Applying fluid dynamic design, DVM S minimizes compression loss during the compression of refrigerant.



Smart Management

Samsung provides an easy to use, smart management system that makes life simpler. With this web-based system, you can immediately access data and easily manage it for unsurpassed convenience.

Auto Trial Operation

DVM S has a smart management system that facilitates self-diagnosis, auto trial operation, auto management, and mobile data transmission. Since you can control the system with smart phone or tablet PC, it provides easy and convenient management.



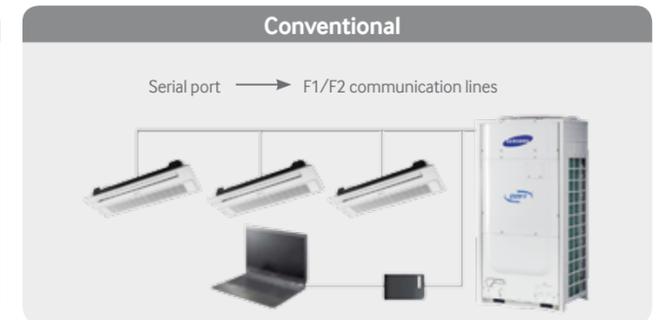
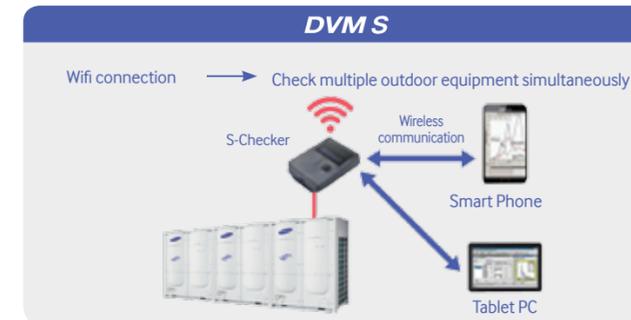
Reduced Commissioning Time

Thanks to auto trial operation, the commissioning time for DVM S has shortened considerably and the testing results are automatically stored and reported.



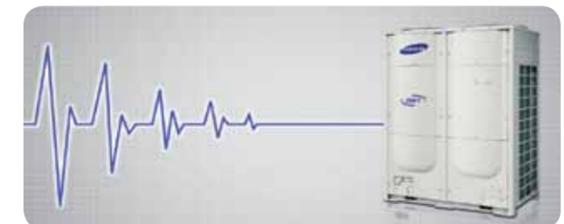
Wifi Monitoring System

With S-Checker, DVM S can be monitored by smart devices such as smart phone or tablet PC.



Self-diagnosis Mode

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



Automatic Data Backup

If a malfunction occurs with the DVM S outdoor unit, the last 30 minutes of operation data are stored for automatic data backup.



Easy Accessibility

Thanks to the small openings on the front side of the outdoor unit, checking the outdoor unit status and setting option are easy and simple since you don't need to remove the entire front cover, thanks to the small openings on the front side of the outdoor unit.



Flexible Installation

Compact in design with extended piping length, Samsung air conditioner facilitates easy installation for any type of space from high-rise buildings to small commercial places.

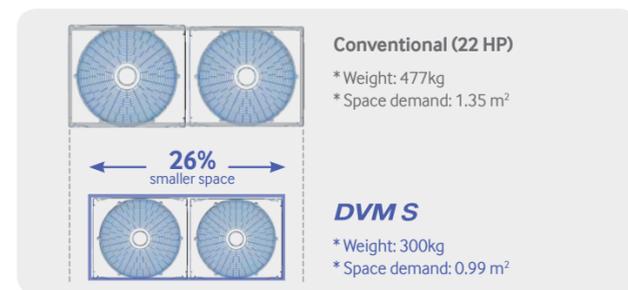
Longest Piping Length & Highest Elevation

Samsung DVM S allows extended piping length of up to 220m, and units will still give a great performance over wide areas. With this technology, installation is available with a maximum height level of 110m, which is equivalent to 20 stories (each story is considered 5m high).



Small Footprint & Lighter Weight

Large unit capacity (22HP) facilitates the economical installation with a smaller footprint and lighter weight, making it the perfect fit for larger buildings.



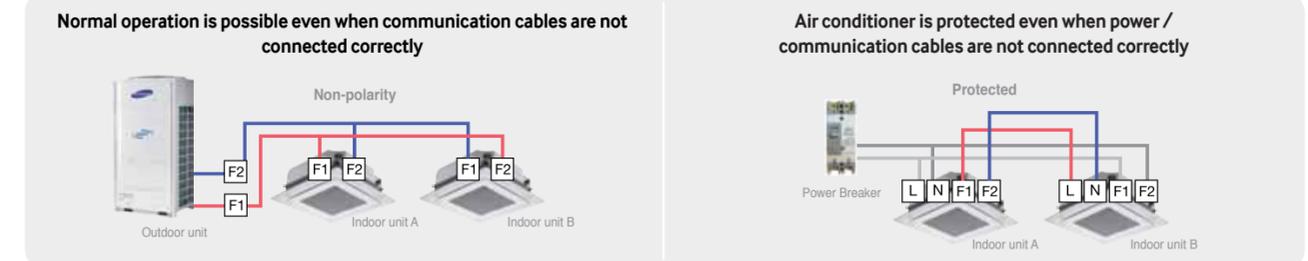
Versatile Piping Connection with Various Knock-out Holes

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



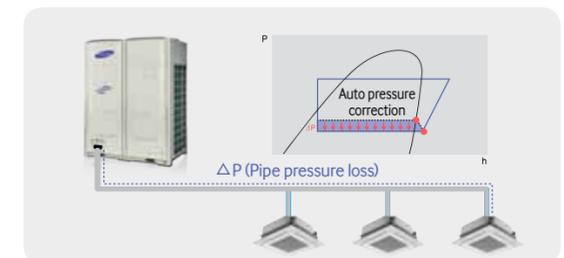
Easy and Safe Wiring Work

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.



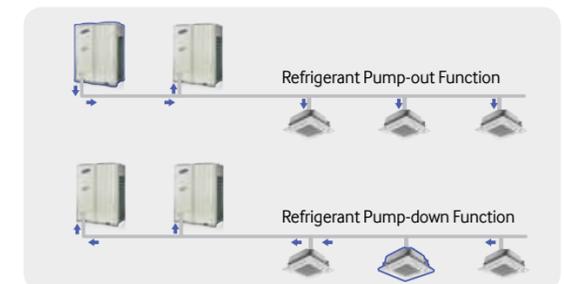
Optimized Refrigerant Distribution Control

Since piping distance is far between outdoor units and indoor units, the individual indoor units perform capacity connection control and automatic refrigerant balancing to secure balanced performance between the units.



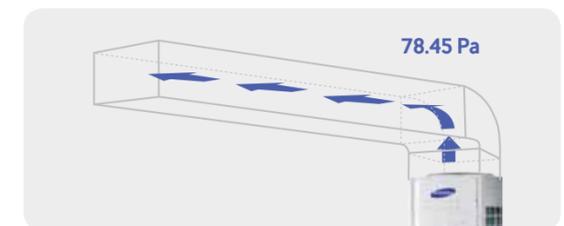
Refrigerant Pump-down & Pump-out

DVM S 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 and pipes. It is also possible to recover refrigerant into outdoor units when moving indoor units or performing maintenance of pipes.



High External Static Pressure

To properly deal with unexpected and varying installation conditions, DVM S is designed to manage high external static pressures up to 78.45 Pa.

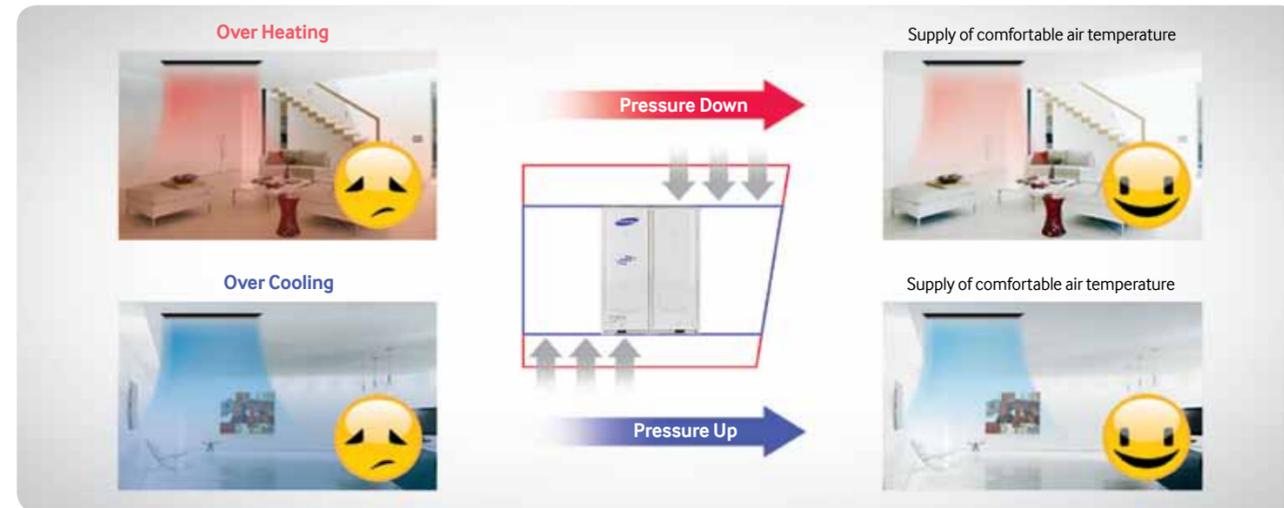


Comfortable & Reliable Operation

Samsung air conditioners ensure comfortable and reliable operation with powerful cooling and heating performance and auto temperature adjustment system.

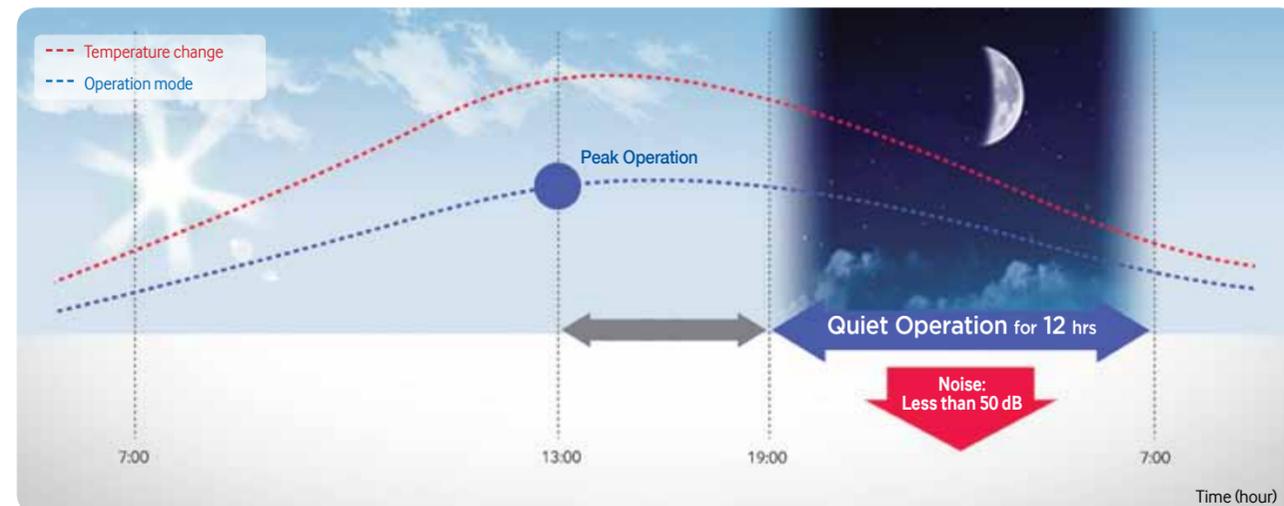
Indoor Discharge Temperature Control

Without changing the outdoor unit's setting, each duct has an indoor discharge temperature control function. This offers greater comfort to you either in cooling operation mode or in heating operation mode. (Cooling operation: around 16°C / Heating Operation: around 36°C)



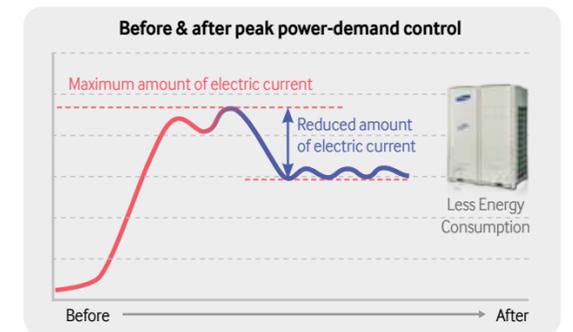
Quiet Operation for night time

DVM S has applied an operation control system to the outdoor fans and this operation control system drastically reduces noise level. Since the quiet operation continues for 12 hours, you can relax in peace and quiet at night time.



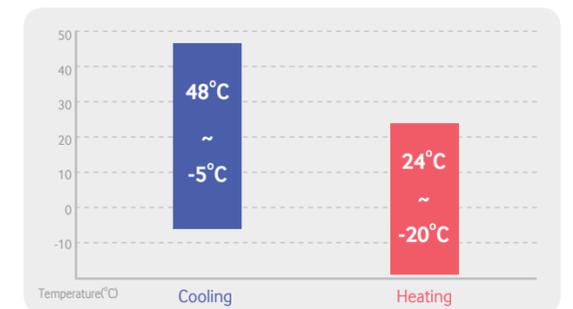
Peak Power-demand Control

DVM S can control peak current and power consumption. This is especially useful when electric supply is not enough or when you want to block excessive energy usage.



Wide Temperature Allowance

When you use DVM S, there's no need to worry about using an additional unit for severe temperatures. It has a wider temperature allowance, meaning that you can cool in the burning heat of 48°C or provide heat in the freezing cold of -20°C to provide comfort in your home.



Auto Snow Blowing Function

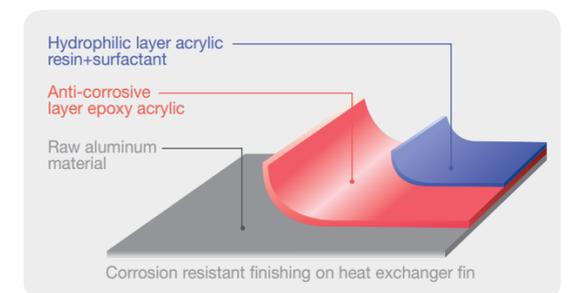
Snow that accumulates and covers the outdoor units during the winter must be removed in order for the units to operate properly. Snow prevention function removes accumulated snow, so you won't have to get rid of it by yourself. Outdoor units will blow away covered snow every 30 minutes to prevent any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



Corrosion & Frost Resistant

The 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.

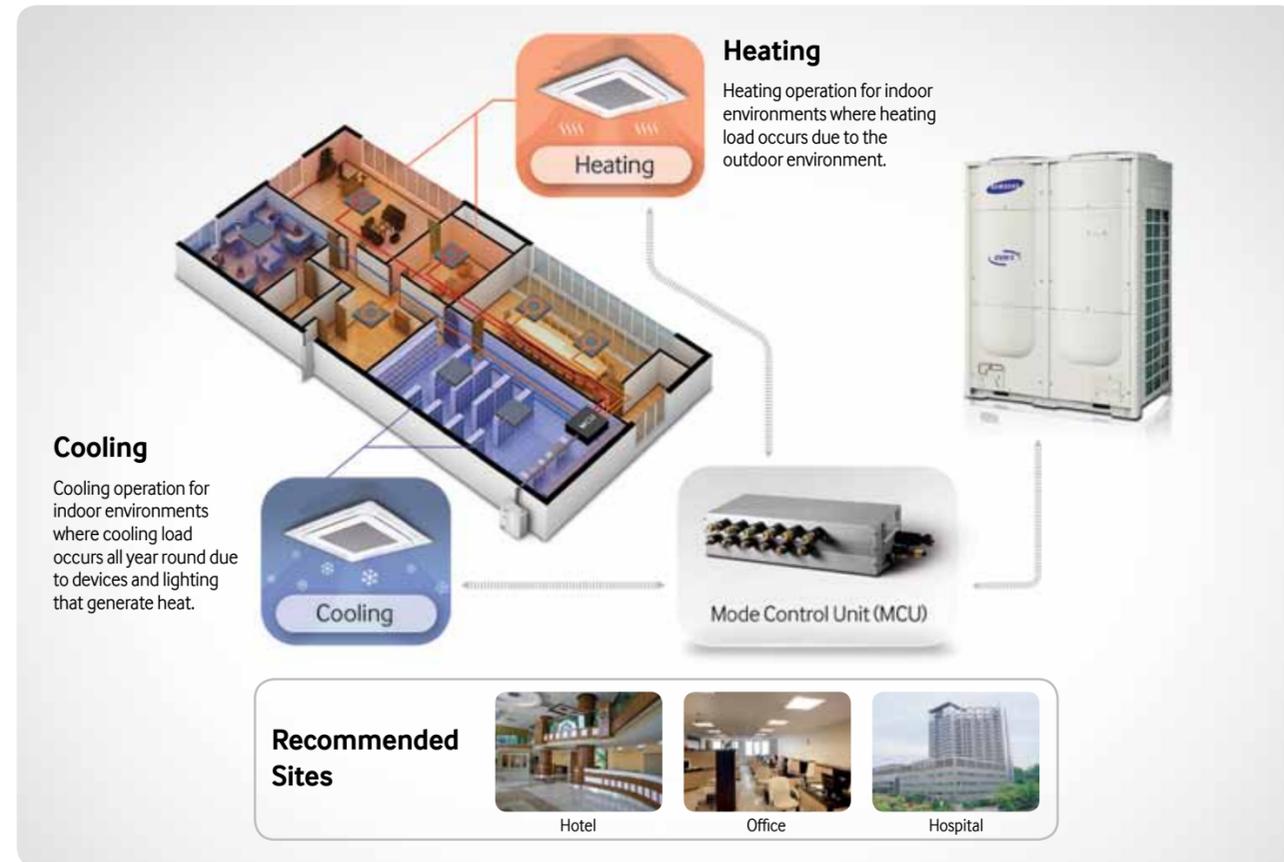


Premium Heat Recovery

*Only Heat Recovery model

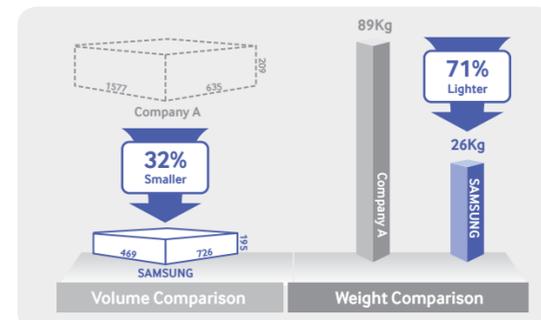
Simultaneous Cooling and Heating

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.



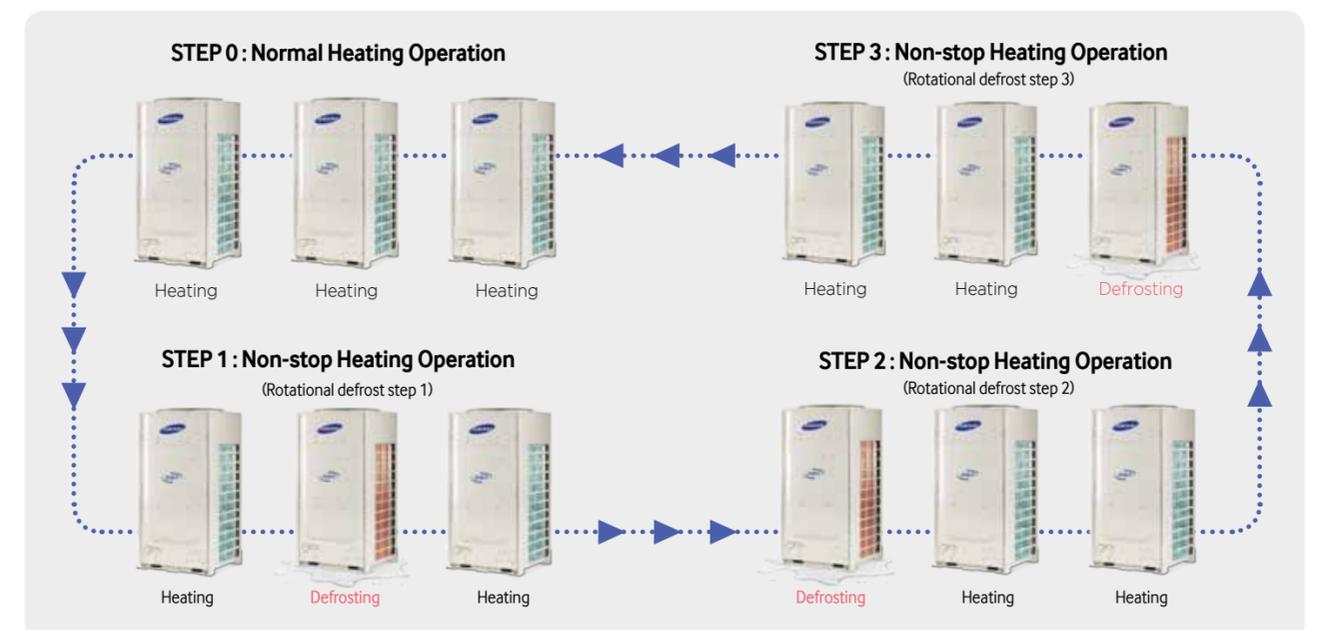
MCU Kit

DVM S HR uses an MCU kit that is less than 32% the size of competitor. 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.



Non-stop Heating Operation

DVM S can continuously operate in heating mode with rotational defrost operation. Since the heating mode continues for a longer of time, you can stay warm and comfortable.



DVM S Desert

DIGITAL VARIABLE MULTI

DVM S Desert is a highly innovative system that adopts the new 3rd generation SSC(Samsung Scroll Compressor) technology. With its Dual Digital Inverter, DVM S Desert provides the world top class energy efficiency and the most powerful cooling and heating performance. This is a perfect air conditioning system that satisfies all variable environments including large buildings.



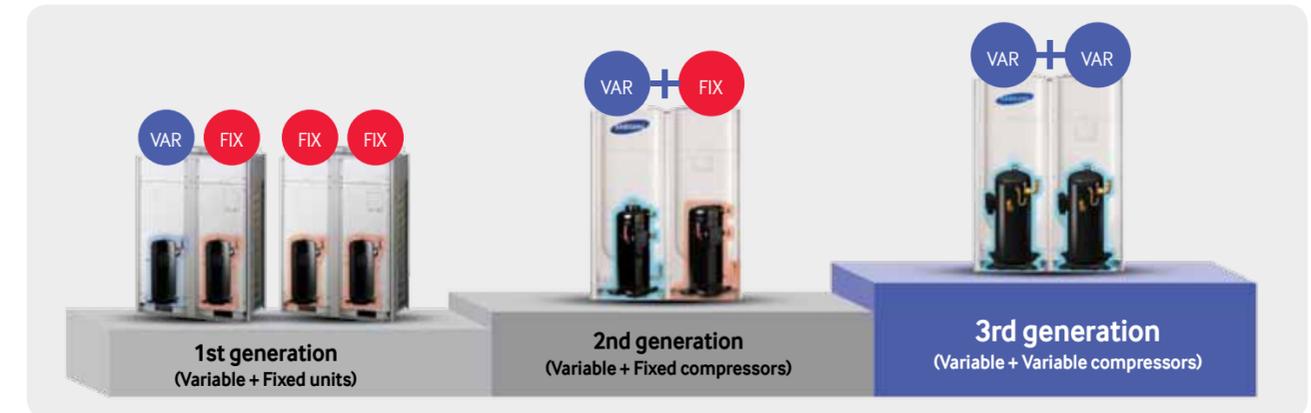
- Features**
- Innovative Technology
 - High Efficiency
 - Smart Management
 - Flexible Installation
 - Comfortable & Reliable Operation

Innovative Technology

Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.

The 3rd Generation Technology

Samsung's new 3rd generation technology adopts dual inverter compressors and an upgraded vapor injection system which surpasses the performance of previous versions of the system. This optimizes energy efficiency, providing energy savings.



Dual Digital Inverter

The Innovative Dual Digital Inverter has both compressors operate simultaneously, and it provides balanced oil distribution, quick cooling and heating, and better energy efficiency.

Dual Digital Inverter

- Simultaneous operation
- Balanced oil distribution
- Quick cooling & heating
- Higher efficiency

Inverter A + Inverter B

The 3rd Generation Vapor Injection System

Upgraded vapor injection system within the compressor increases the refrigerant flow rate by 20% compared to the conventional products.



Reliability and Safety certification from 3rd Party

Warrant High Ambient Reliability up to 54oC achieve certification of compressor reliability.



Innovative Technology

Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.

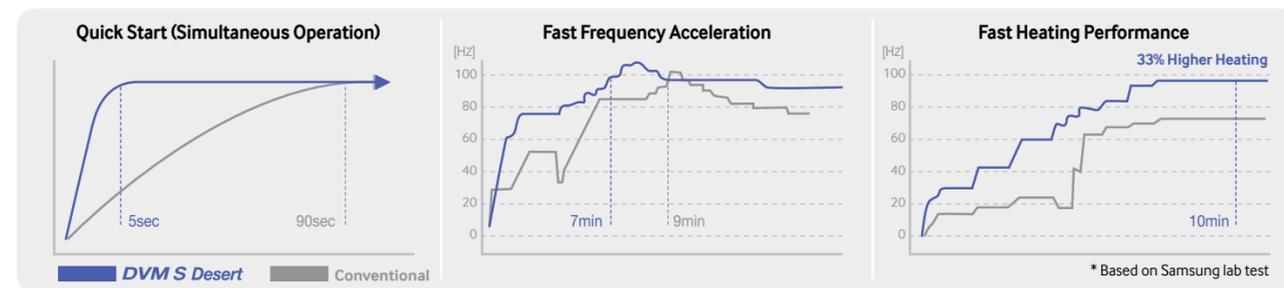
DDI(Dual Digital Inverter) System

The 3rd generation innovative system, Dual Digital Inverter, adopts a dual inverter compressor that upgrades refrigerant flow and the motor's operating performance. This unique Dual Digital Inverter achieves unsurpassed energy efficiency.



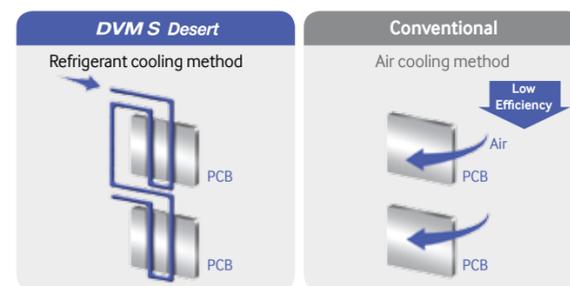
Quick Cooling & Heating

With compressor speed acceleration and simultaneous starting, DVM S Desert provides quick cooling and heating performance.



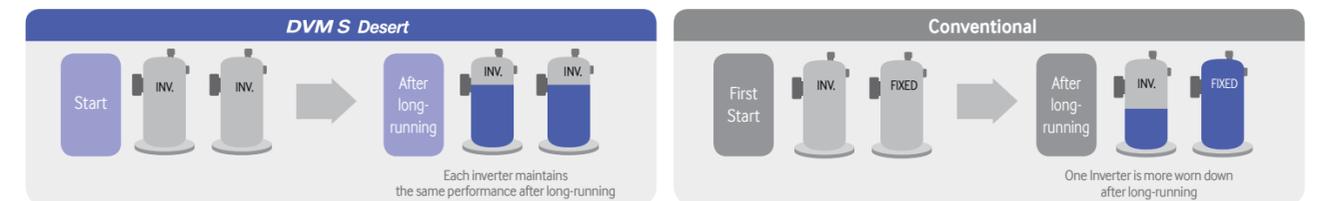
Refrigerant Cooling System

Refrigerant cooling system is not affected by the ambient temperature. Using refrigerant cooling system, DVM S ensures better stability than conventional air cooling system.

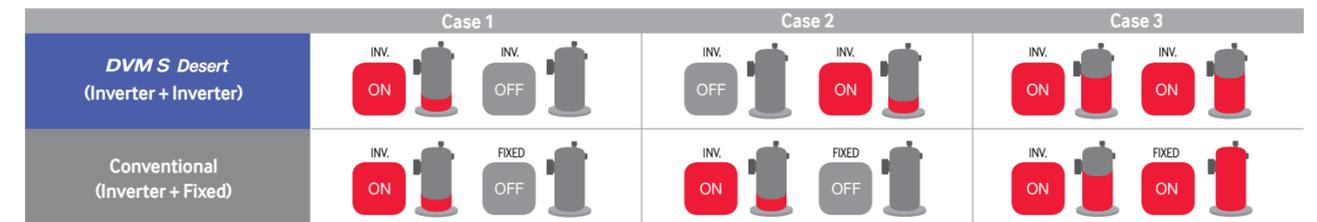


Enhanced Compressor Durability

In the conventional system composed of inverter and fixed compressors, one compressor operates longer than the other which results in one compressor wearing down faster. This in fact decreases compressor durability and life span. However in DVM S Desert's Dual Digital Inverter system, each compressor operates in unison with the other so the overall compressor durability is preserved for a longer time.

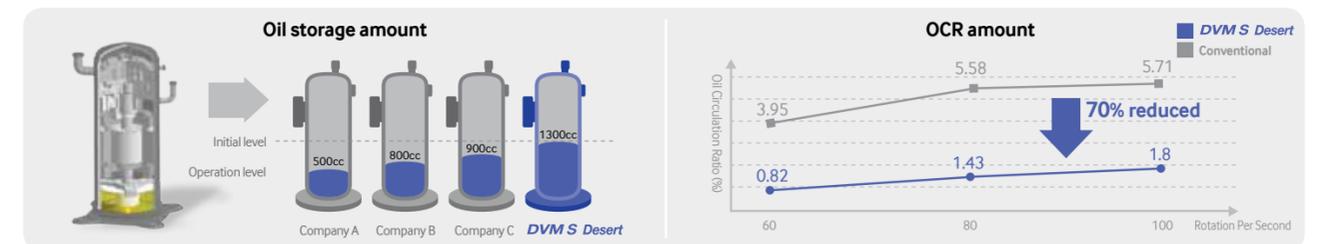


Thanks to fine capacity control, the DDI (Dual Digital Inverter) responds to subtle indoor load changes, which allows you to save energy cost.



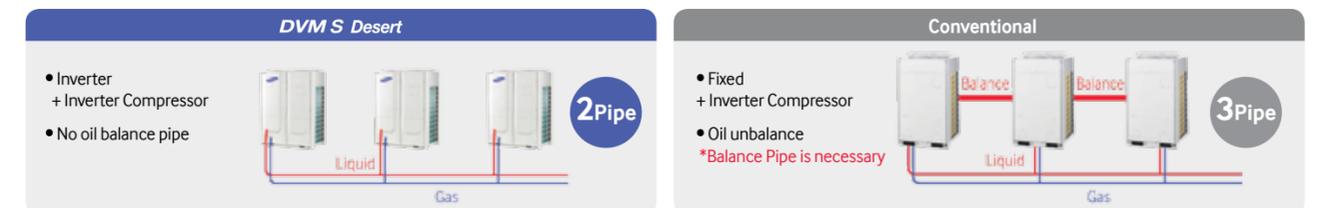
Large Oil Storage Capacity

With large oil storage and low OCR, DVM S Desert can secure reliability even in case of installation with long piping and high elevation. *OCR (Oil Circulation Ratio)



Auto Oil Balancing

Samsung DVM S Desert ensures stable and equal oil balancing without requiring an extra oil balancing pipe.



High Efficiency

To meet worldwide customer needs, Samsung continues to develop optimized air conditioners which offer high quality performance and great energy efficiency.

VRF FUM SINGLE

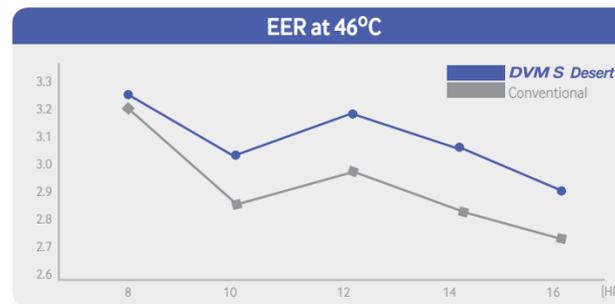
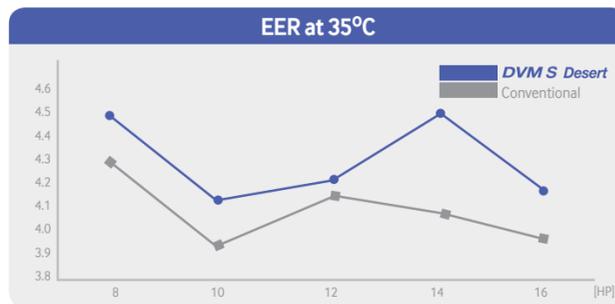
Top Class Energy Efficiency

DVM S Desert has achieved top class energy efficiency by adopting a dual inverter compressor with vapor injection system. Therefore, it gives you powerful, quick cooling and heating with minimum energy consumption.



World Top Class Energy Efficiency Ratio

DVM S Desert has achieved superior EER which far surpasses competitor's EER at all range.



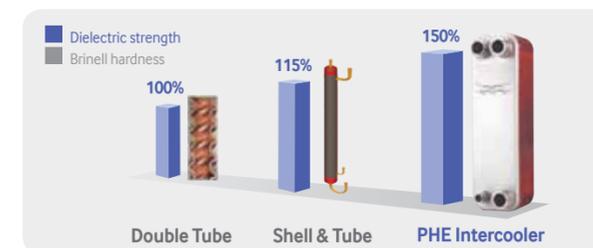
Maximum Capacity; Single 16HP, Module 64HP

DVM S Desert provides the world's largest capacity (module 64HP) and economical installation with smaller footprint area and lighter weight.



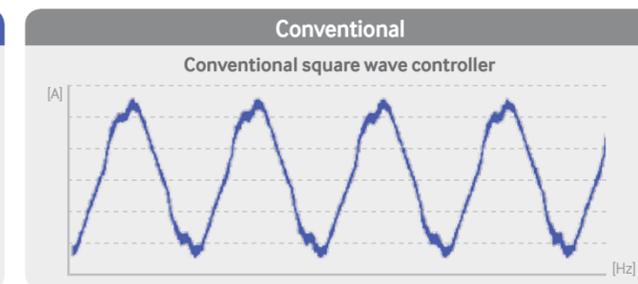
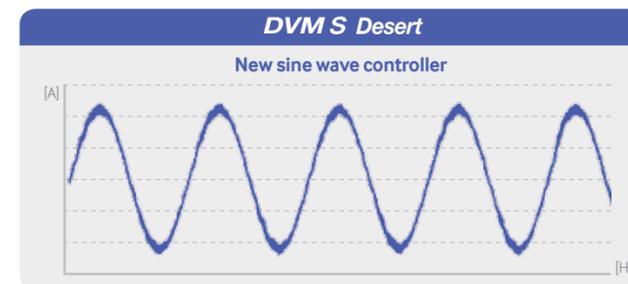
PHE (Plate Heat Exchanger)

Plate Heat Exchanger type intercooler is adopted on DVM S Desert to improve cooling and heating efficiency. Heating efficiency with PHE has been improved by about 30% compared to conventional products with the Shell & Tube type intercooler and by 50% compared to competitors' products with the Double Tube type intercooler.



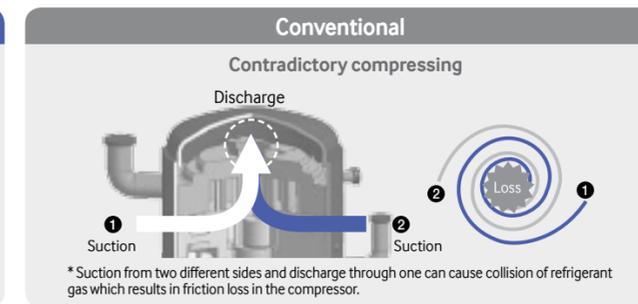
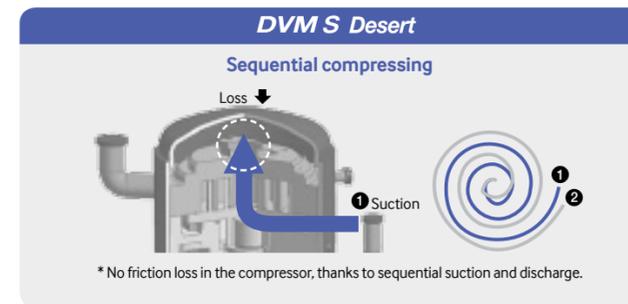
Adaptive Sine Wave Control

Adaptive sine wave control can reduce THP (Total Harmonic Distortion). Therefore DVM S Desert doesn't need to use shield wiring for communication.



Asymmetric Scroll Design

Applying fluid dynamic design, DVM S Desert minimizes compression loss during the compression of refrigerant.



Smart Management

Samsung provides an easy to use, smart management system that makes life simpler. With this web-based system, you can immediately access data and easily manage it for unsurpassed convenience.

Auto Trial Operation

DVM S Desert has a smart management system that facilitates self-diagnosis, auto trial operation, auto management, and mobile data transmission. Since you can control the system with smart phone or tablet PC, it provides easy and convenient management.



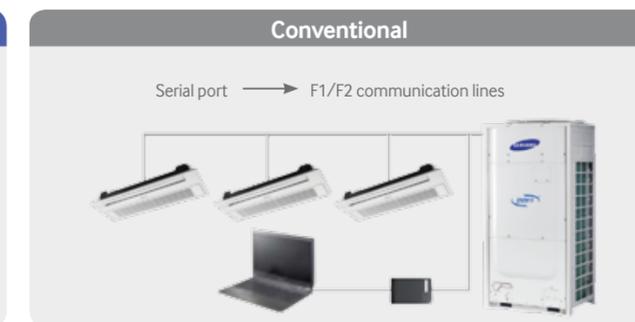
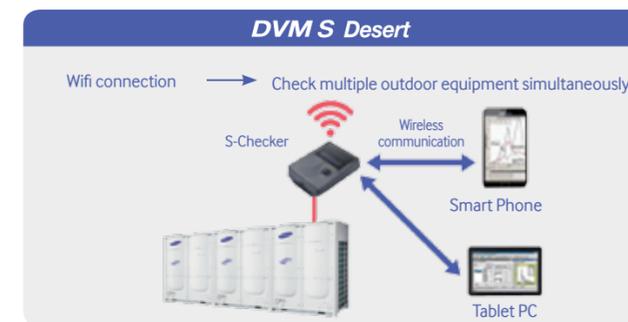
Reduced Commissioning Time

Thanks to auto trial operation, the commissioning time for DVM S Desert has shortened considerably and the testing results are automatically stored and reported.



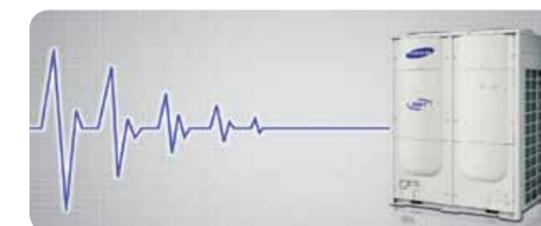
Wifi Monitoring System

With S-Checker, DVM S Desert can be monitored by smart devices such as smart phone or tablet PC.



Self-diagnosis Mode

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



Automatic Data Backup

If a malfunction occurs with the DVM S Desert outdoor unit, the last 30 minutes of operation data are stored for automatic data backup.



Easy Accessibility

Thanks to the small openings on the front side of the outdoor unit, checking the outdoor unit status and setting option are easy and simple since you don't need to remove the entire front cover, thanks to the small openings on the front side of the outdoor unit.

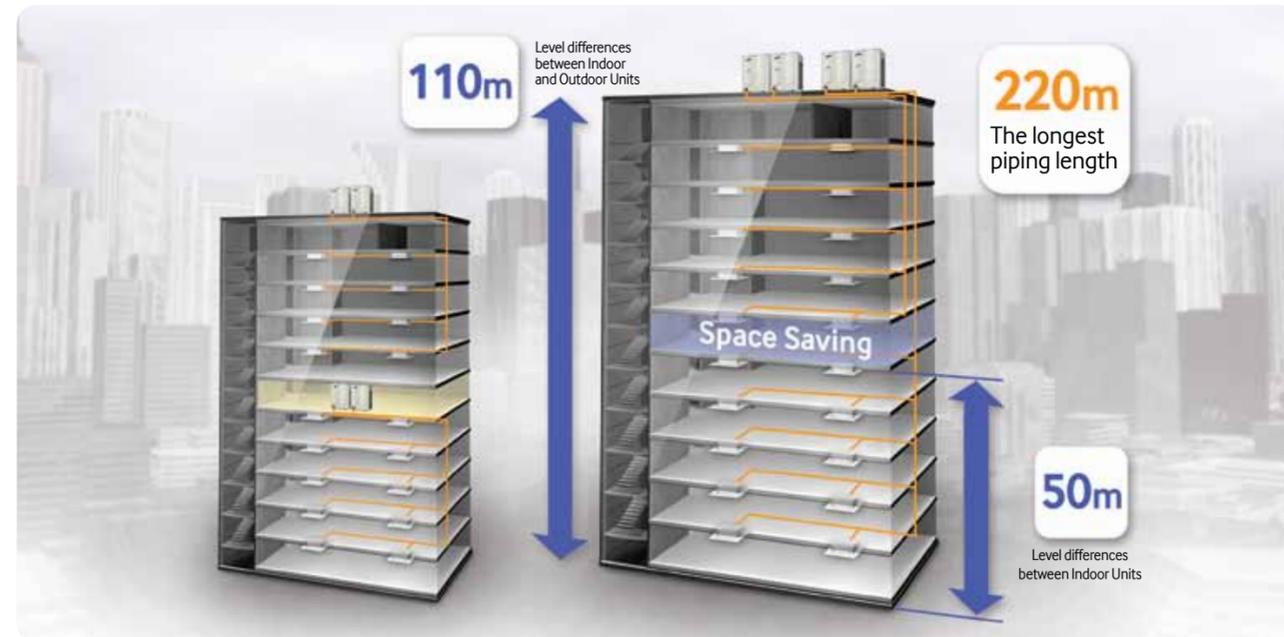


Flexible Installation

Compact in design with extended piping length, Samsung air conditioner facilitates easy installation for any type of space from high-rise buildings to small commercial places.

Longest Piping Length & Highest Elevation

Samsung DVM S Desert allows extended piping length of up to 220m, and units will still give a great performance over wide areas. With this technology, installation is available with a maximum height level of 110m, which is equivalent to 20 stories (each story is considered 5m high).



Small Footprint & Lighter Weight

Large unit capacity (16HP) facilitates the economical installation with a smaller footprint and lighter weight, making it the perfect fit for larger buildings.



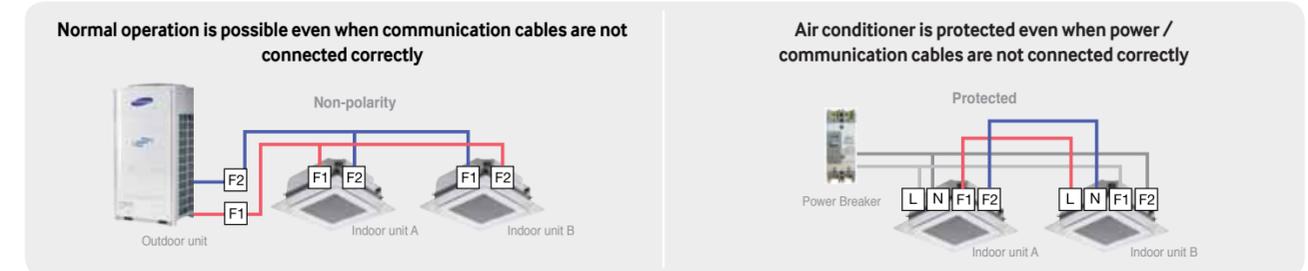
Versatile Piping Connection with Various Knock-out Holes

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



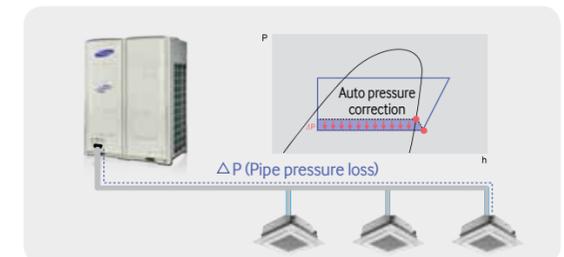
Easy and Safe Wiring Work

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.



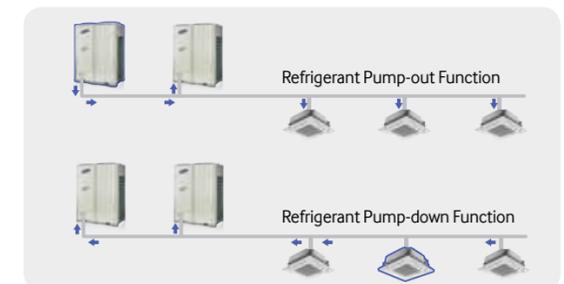
Optimized Refrigerant Distribution Control

Since piping distance is far between outdoor units and indoor units, the individual indoor units perform capacity connection control and automatic refrigerant balancing to secure balanced performance between the units.



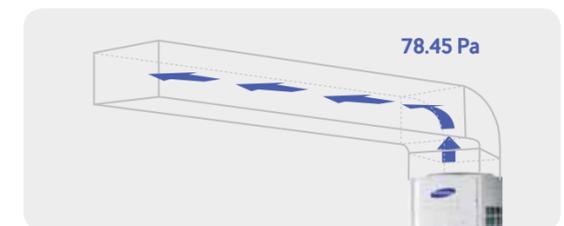
Refrigerant Pump-down & Pump-out

DVM S 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 and pipes. It is also possible to recover refrigerant into outdoor units when moving indoor units or performing maintenance of pipes.



High External Static Pressure

To properly deal with unexpected and varying installation conditions, DVM S Desert is designed to manage high external static pressures up to 78.45 Pa.

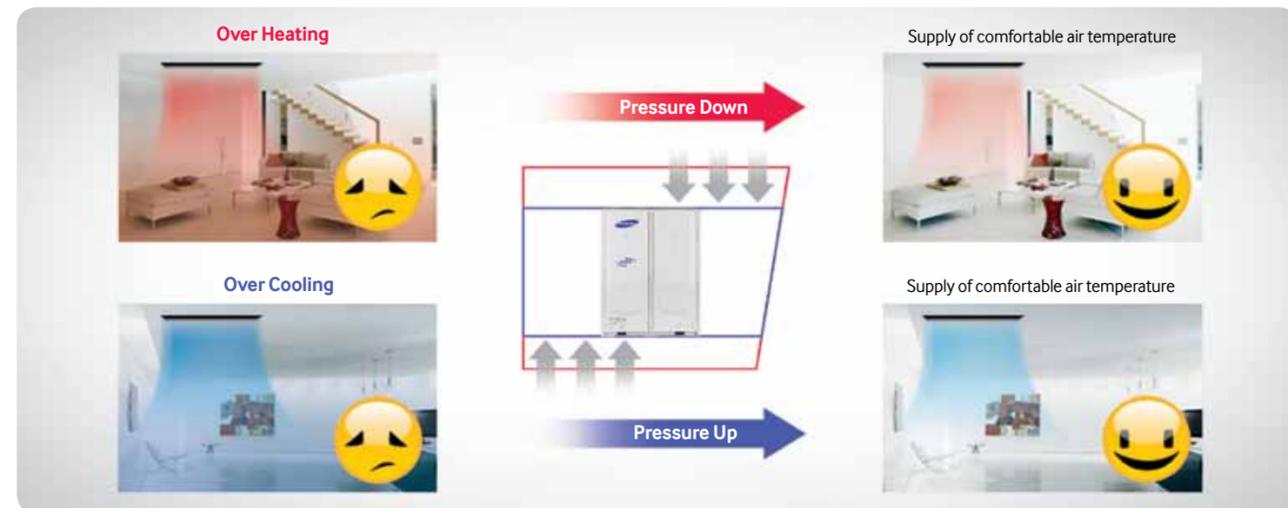


Comfortable & Reliable Operation

Samsung air conditioners ensure comfortable and reliable operation with powerful cooling and heating performance and auto temperature adjustment system.

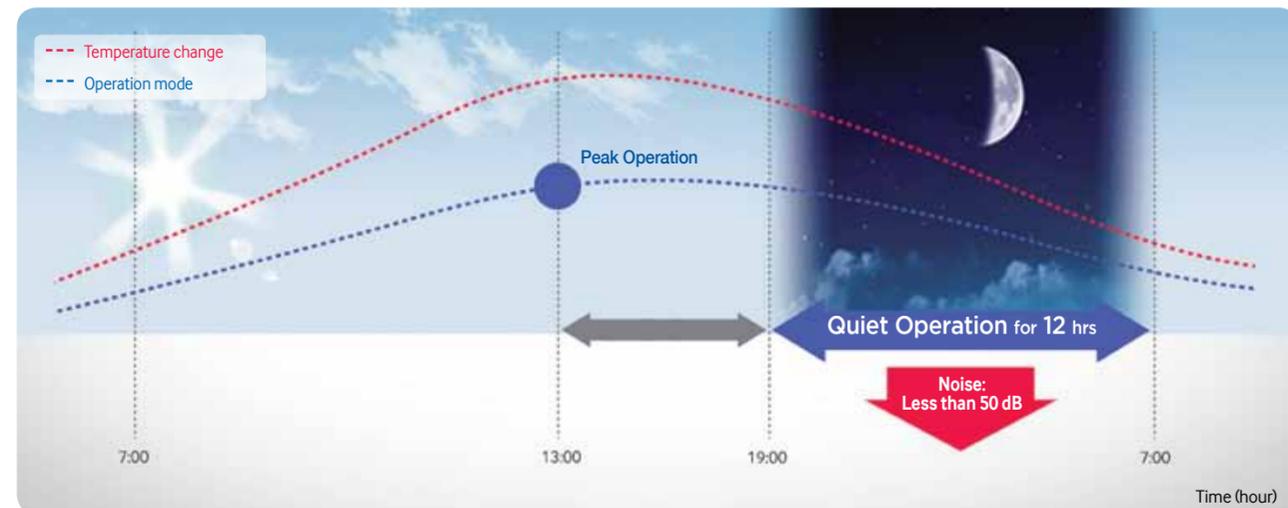
Indoor Discharge Temperature Control

Without changing the outdoor unit's setting, each duct has an indoor discharge temperature control function. This offers greater comfort to you either in cooling operation mode or in heating operation mode. (Cooling operation: around 16°C / Heating Operation: around 36°C)



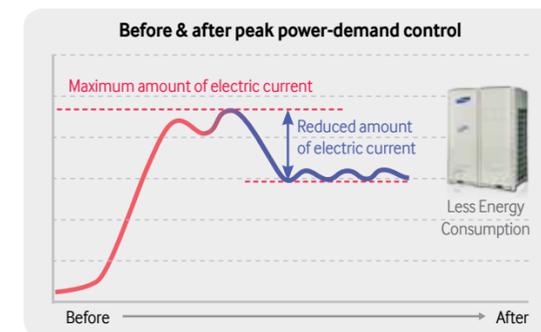
Quiet Operation for night time

DVM S Desert has applied an operation control system to the outdoor fans and this operation control system drastically reduces noise level. Since the quiet operation continues for 12 hours, you can relax in peace and quiet at night time.



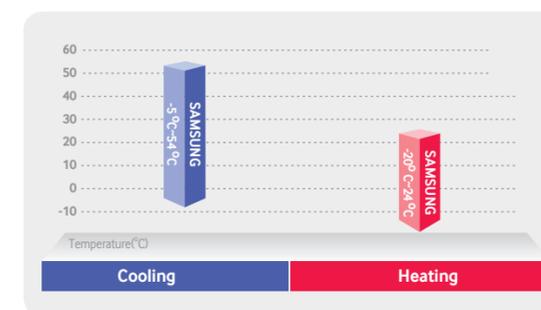
Peak Power-demand Control

DVM S Desert can control peak current and power consumption. This is especially useful when electric supply is not enough or when you want to block excessive energy usage.



Reliable Operation in 54°C High Ambient Condition

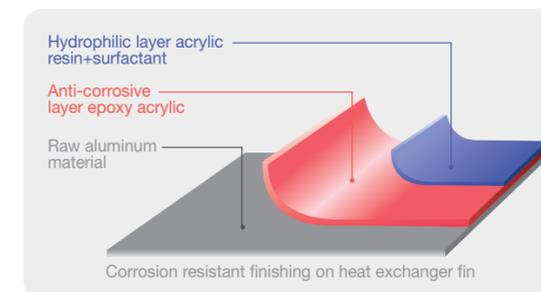
When you use DVM S Desert, there's no need to worry about using an additional unit for severe temperatures. It has a wider temperature allowance, meaning that you can cool in the burning heat of 54°C or provide heat in the freezing cold of -20°C to provide comfort in your home.



Corrosion & Frost Resistant

The 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.



DVMS WATER

DIGITAL VARIABLE MULTI

The DVM S WATER is a large capacity cooling and heating system, suitable for large buildings, that uses water as its heat source, with connections to a cooling tower and boiler. Using a highly efficient compressor and heat exchanger, it provides an outstandingly effective and reliable performance that's unaffected by changes in the surrounding environment. Its long piping and lightweight design also make it easy and economical to install almost anywhere.



Innovative Technology

DVMS WATER

Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.

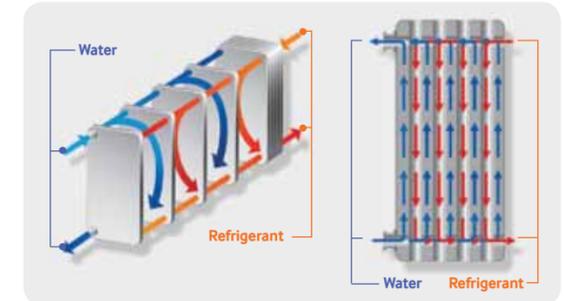
DDI(Dual Digital Inverter) System

The 3rd generation innovative system, Dual Digital Inverter, adopts a dual inverter compressor that upgrades refrigerant flow and the motor's operating performance. This unique Dual Digital Inverter achieves unsurpassed energy efficiency.



High Efficient Plate Heat Exchanger

Applying high efficient plate heat exchanger improves energy efficiency and ensures stable cooling and heating performance.



The Vapor Injection System

Upgraded vapor injection system within the compressor increases the refrigerant flow rate by 20% compared to the conventional products.



High Efficiency

DVMS WATER

To meet worldwide customer needs, Samsung continues to develop optimized air conditioners which offer high quality performance and great energy efficiency.

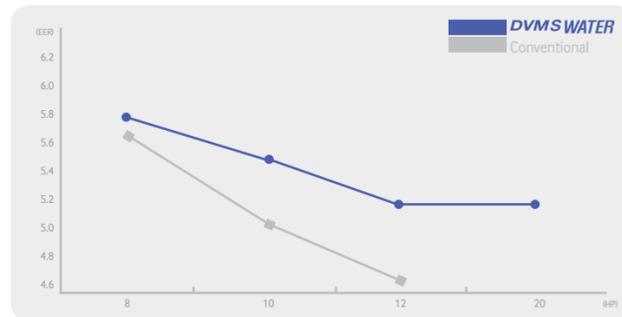
Top Class Energy Efficiency

DVM S WATER has achieved top class energy efficiency by adopting a dual inverter compressor with vapor injection system. Therefore, it gives you powerful, quick cooling and heating with minimum energy consumption.



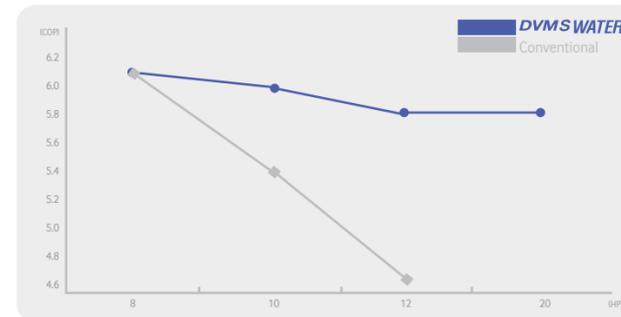
EER (Energy Efficiency Ratio)

DVM S WATER has achieved superior EER which far surpasses competitor's EER at all range. On average, DVM S WATER has 8% higher EER than competitor.



COP (Coefficient of performance)

DVM S WATER's COP also surpasses competitor's COP at all range. On average, it has 11% higher rate than competitor.



Smart Management

DVMS WATER

Samsung provides an easy to use, smart management system that makes life simpler. With this web-based system, you can immediately access data and easily manage it for unsurpassed convenience.

Auto Trial Operation

DVM S WATER has a smart Auto Commissioning Management (ACM) function that continually monitors operational performance and proactively highlights signs of abnormal operation, so potential problems can be quickly addressed. And, if a malfunction occurs, the last 30 minutes of operating data are stored for automatic backup. So it cuts down the maintenance cost of periodic inspections and ensures that the system is always operating perfectly



Optimal Water Flow Controller

DVM S WATER 's built-in Water Flow Controller helps control the amount of water used to cool and heat the outdoor unit. It determines the optimum flow of water based on the internal temperature of the spaces, so the circulation pump's energy consumption is optimized and costs reduced. And because it's provided as standard there's no need to buy a separate water flow control kit.



Flexible Installation

DVMS WATER

DVM S WATER can be installed almost anywhere with long pipe length and small footprint.

Longest Piping Length & Highest Elevation

DVM S WATER can be installed almost anywhere, regardless of its location or distance from the building. It has outdoor and indoor units, while still ensuring complete reliability. It can also reach a maximum piping length of up to 170 meters (558 feet) between the outdoor unit up to a height of 50 meters (164 feet), which is the equivalent of 10 stories.



Saving Installation Space

DVM S WATER is much more economical to install as it has a small footprint and lightweight design, but a large 20 horsepower (HP) capacity. So instead of installing two 10HP units you only need one 20HP Samsung unit – using 30% less space and significantly reducing the costs of valves, fittings and gauges. You can also combine up to three units to create a total capacity of 60HP.

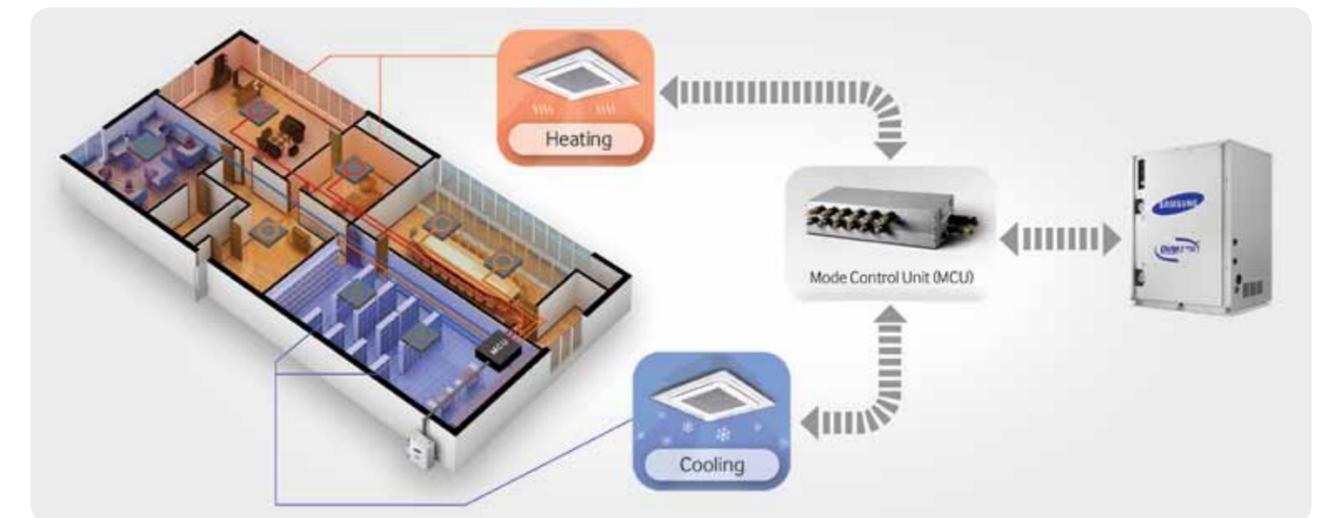


Application

DVMS WATER

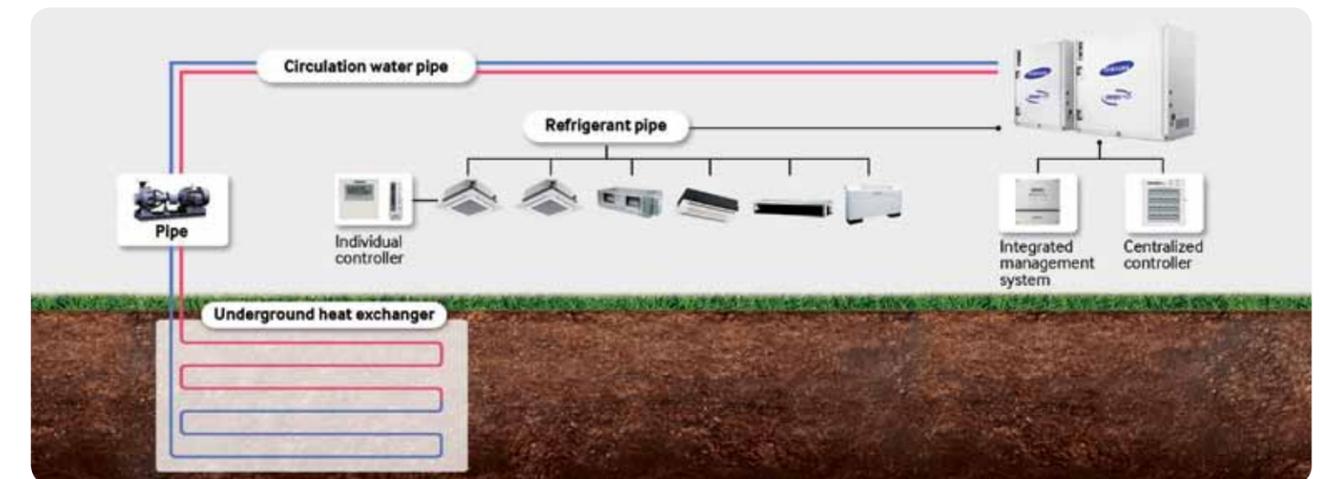
Simultaneous Cooling and Heating

With DVM S WATER's optional Mode Control Unit (MCU) you can independently cool and heat different spaces at the same time. Instead of just heating or cooling all spaces at the same time, with the MCU each indoor unit can be operated separately, so you can simultaneously heat some rooms or areas of the building, while cooling others.



Geothermal Application

DVM S WATER can use Geothermal energy as renewable heat source instead of cooling tower and boiler, so it's very eco-friendly.



DVM S Eco

DIGITAL VARIABLE MULTI

The DVM S Eco air conditioning system is a compact and efficient outdoor unit that's suitable for a wide range of homes and small businesses. It's available in a wide choice of capacities and also features a compact and lightweight design, making it very easy and economical to install and use. And it's also extremely quiet, so whatever your needs you can enjoy optimum efficiency and comfort anywhere.

VRF FJM SINGLE

Various Indoor Units

DVM S Eco can be combined up to 9 stylish indoor units blending with any interior design.

| Capacity | Conventional COP | DVM S Eco COP |
|----------|------------------|---------------|
| 4HP | 4.42 | 4.47 |
| 5HP | 4.03 | 4.44 |
| 6HP | 3.83 | 4.09 |
| 8HP | 4.17 | 5.12 |

Optimum performance and efficiency

DVM S Eco

The DVM S Eco air conditioning system is available in a wide range of capacities to ensure its optimum use and efficiency – whatever your needs and wherever it's used. There's a choice of 4HP, 5HP, 6HP, 8HP, and 9HP models, so it's easy to select exactly the right level of performance to suit your particular heating and cooling requirements.

Small in size and weight. Big on choice and efficiency.

The DVM S Eco air conditioning system is a compact and efficient outdoor unit that's suitable for a wide range of homes and small businesses. It's available in a wide choice of capacities and also features a compact and lightweight design, making it very easy and economical to install and use. And it's also extremely quiet, so whatever your needs you can enjoy optimum efficiency and comfort anywhere.



Minimum noise for maximum comfort

The DVM S Eco air conditioning system has a low noise level compared to conventional models, so it won't distract you at home or disturb anyone at work. In particular, its innovative new fan is extremely efficient and creates very little noise thanks to its specially shaped blades. So you can enjoy a much more comfortable living or working environment.

Easy and flexible installation

The DVM S Eco air conditioning system has an extremely slim and light design, with the largest 9HP model weighing just 135kg. So it is much more flexible and economical to install as it fits into smaller areas and makes the best use of valuable space **with 60% volume and depth.**



Features • Small in size and weight • Minimum noise • Easy and flexible installation

Outdoor units

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.

VRF FJM SINGLE



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.

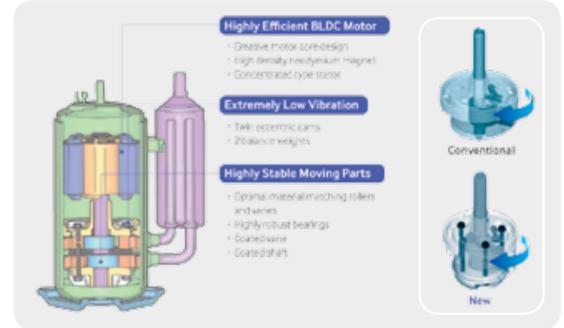
- Features** • Twin BLDC Compressors • Sine Wave Controller • Sound Insulator for the Compressor • Easy Installation

Free Joint Multi

Universal Free Joint Multi

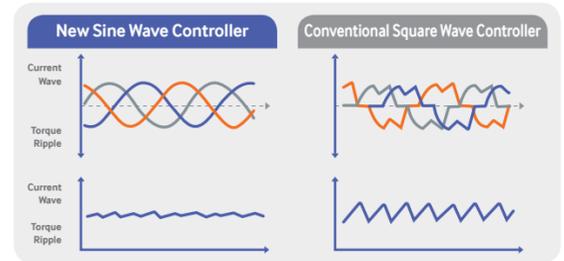
Twin BLDC Compressors

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.



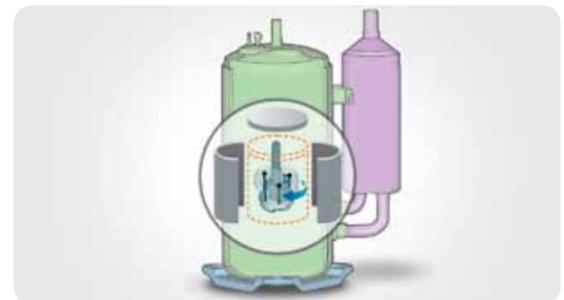
Sine Wave Controller

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.



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 also provides outstanding cooling and heating performance.

VRF FJM SINGLE



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

Energy Saving CAC SINGLE

CAC SINGLE

Top-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.

New EU Regulation for Air Conditioners

The EU aims to drastically cut the power consumption of air conditioners. Inefficient units will be gradually withdrawn from the market as of 2013. At the same time, the EU is introducing an improved energy labelling system by which consumers will have a better idea how much electricity their units consume.

New Regulation (on the basis of MEPS*)

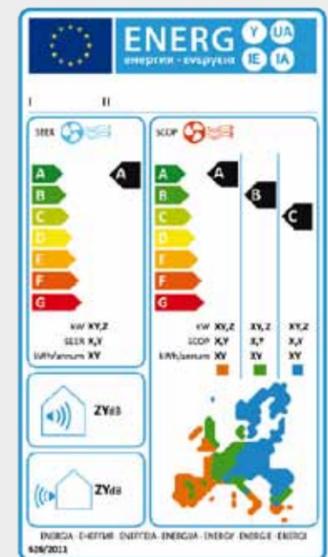
| Divisions | | Application | |
|-------------------|-----------------------|-----------------------|---|
| Energy Efficiency | SEER | Capacity ≤ 6kw | ≥ 4.60(B) |
| | | 6kw < Capacity ≤ 12kw | ≥ 4.30(C) |
| | SCOP(avg.) | Capacity ≤ 12kw | ≥ 3.80(A) |
| Sound Power | Capacity ≤ 6kw | | Indoor: 60dB(A) ↓ outdoor: 65dB(A) ↓ |
| | 6kw < Capacity ≤ 12kw | | Indoor: 65dB(A) ↓ outdoor: 70dB(A) ↓ |

*MEPS (Minimum Energy Performance Standard)



- 4Way Cassette : A++ (Flagship/ Premium), A+ (Deluxe)
- Mini 4Way Cassette (600x600) : A++

New Energy Label



*Table 1: Introduction of revised energy consumption labelling for air conditioners as per EU Directive 2011/626/EU

Smaller and Lighter

Samsung new smart inverter outdoor unit is smaller and lighter than conventional products. New 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 new units are smaller and lighter, they offer equal performance as conventional 2 fan structured outdoor units.



*10KW Deluxe Model

Energy Saving CAC SINGLE

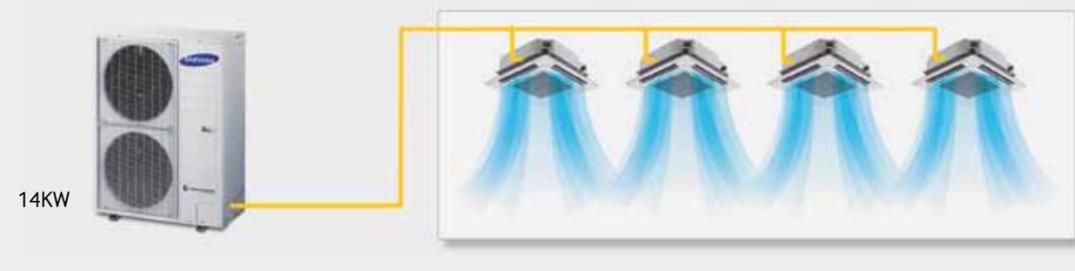
VRF FUM SINGLE

Simultaneous On/Off Function

Instead of just one indoor unit, you can connect two, three, four units with a single 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 & Mini4Way CST is available.



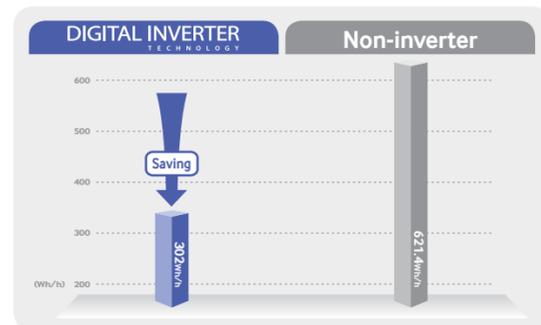
Flexible Pipe Installation

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.



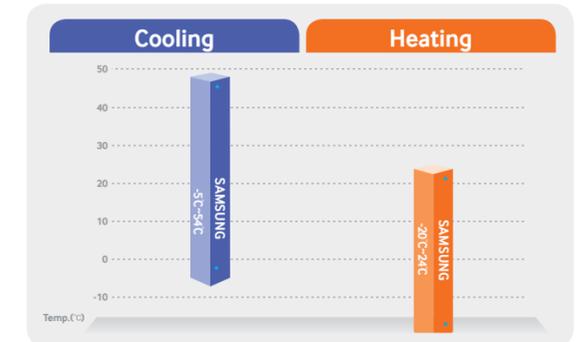
Save up to 50% in Energy Costs

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



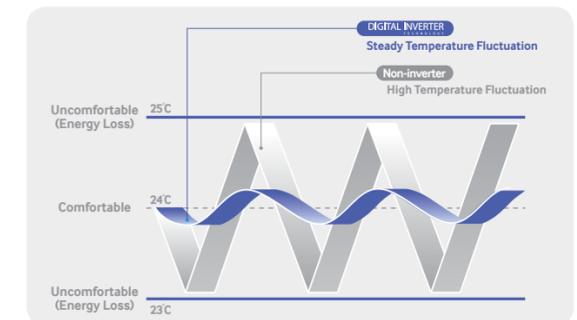
Wide Temperature Performance

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.



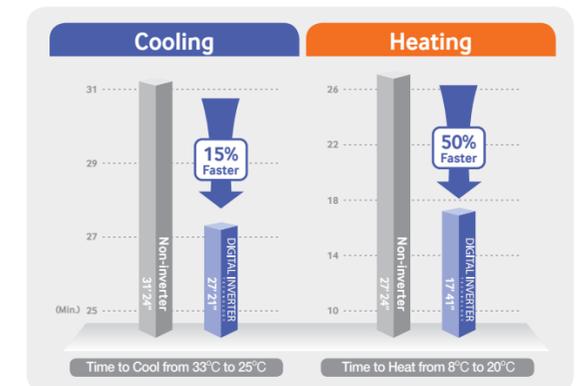
Comfortable Temperature

Digital 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

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.

Ducted Type

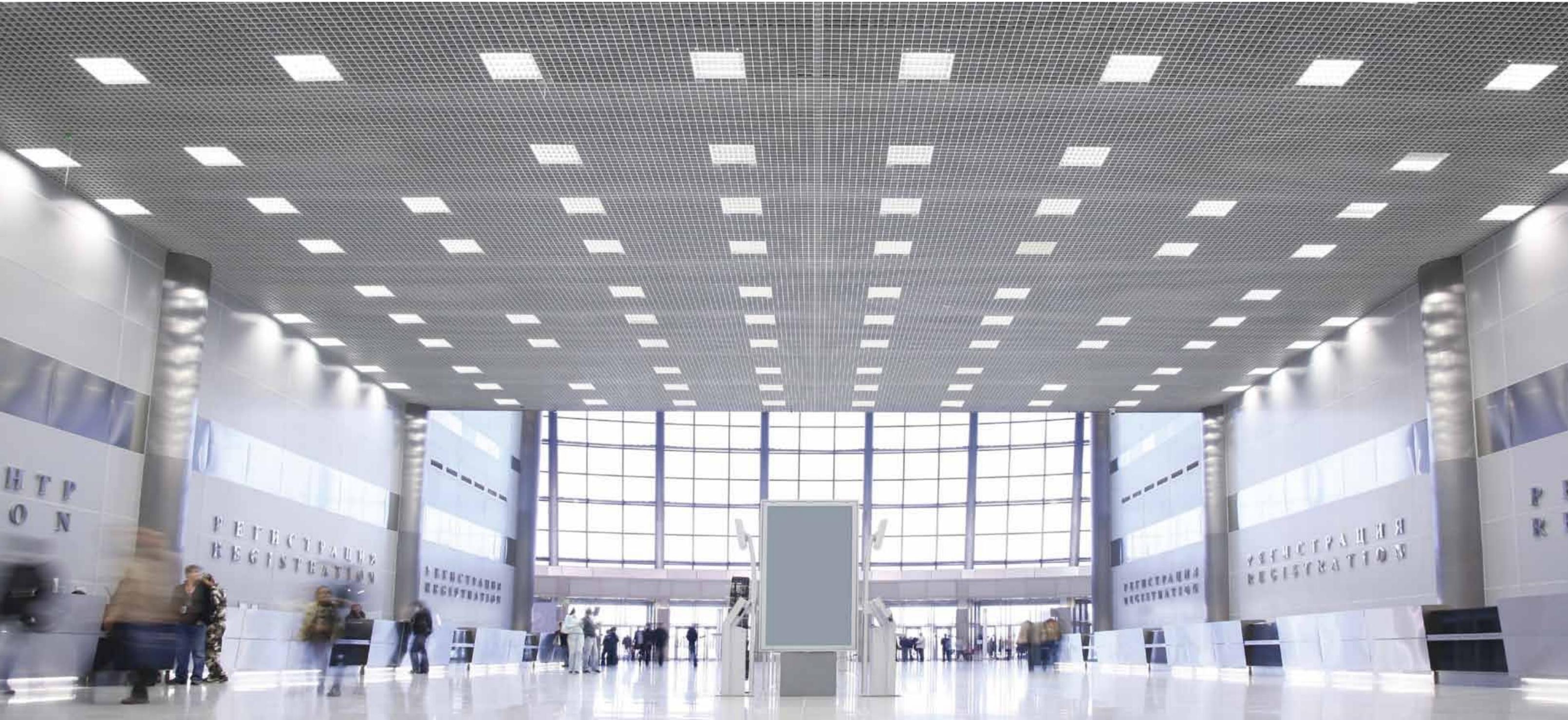
Ducted type indoor units visually blend well into ceilings, enhancing the beauty of your interior space with their compact and slim size that gives you flexible installation options.

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.

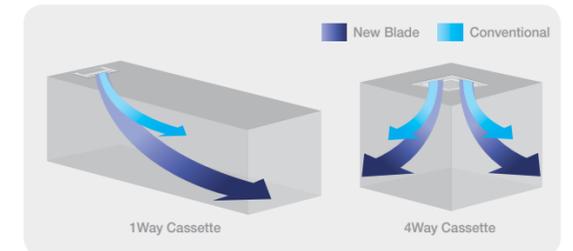




Cassette Type

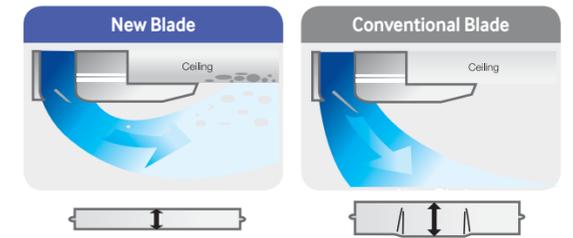
Powerful Airflow

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



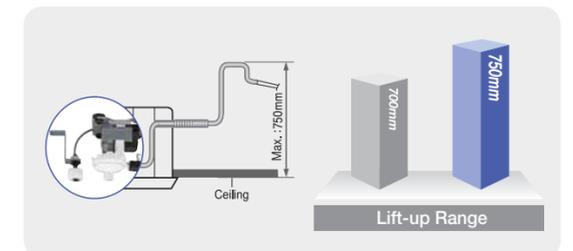
Ceiling Dust Prevention

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.



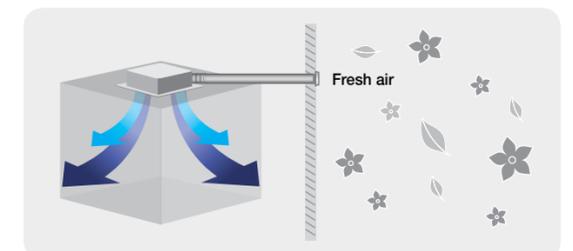
High Lift-up Drain Pump

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.



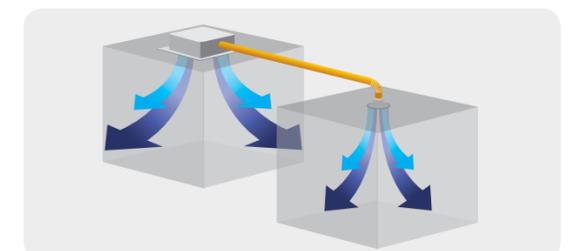
Fresh Air Intake

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



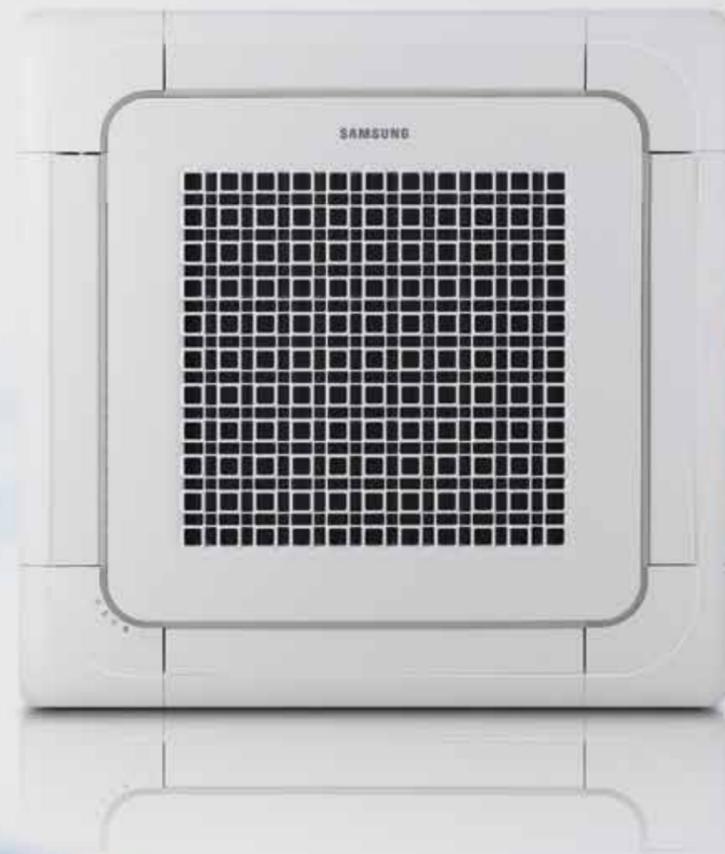
Sub Duct

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.)



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.



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.



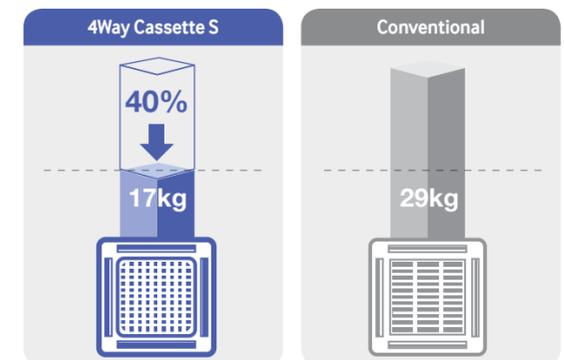
Neat and Clean Design

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.



*Based on 10kW

- Features**
- Stylish and Aesthetic Panel
 - Simple Display
 - Neat and Clean Design
 - Light yet Robust Design
 - Virus Doctor (optional): Healthy Air Provider
 - Individual Blade Control
 - No Overflowing Drain Water
 - Easy Leveling
 - Fan Speed Adjustment for High Ceiling
 - Easy Blade Cleaning
 - Quick Cooling and Heating
 - Turbo Fan
 - Surround Air Flow

Stylish 4Way Cassette S

4Way Cassette S

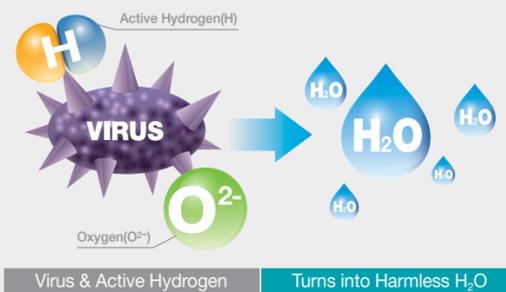
Virus Doctor (optional): Healthy Air Provider

Healthy Air Provider

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



Virus Doctor 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.

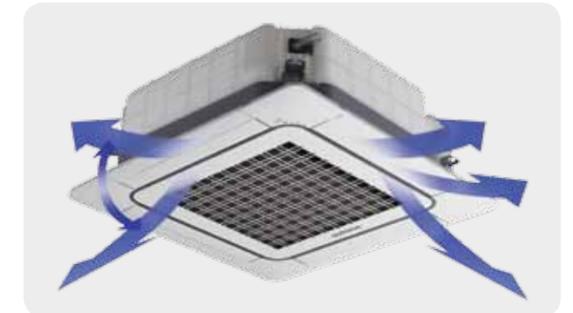


- Elimination of airborne virus & bacteria (Subtype H1N1)
- Complete eradication of bacteria
- Relief of allergies by eradicating airborne allergens
- Neutralization of OH-radical (as known as active oxygen)



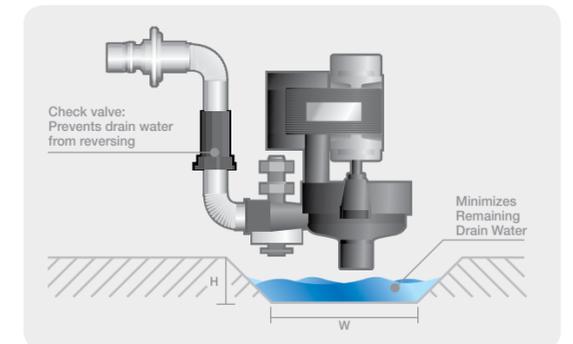
Individual Blade Control

By using 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.



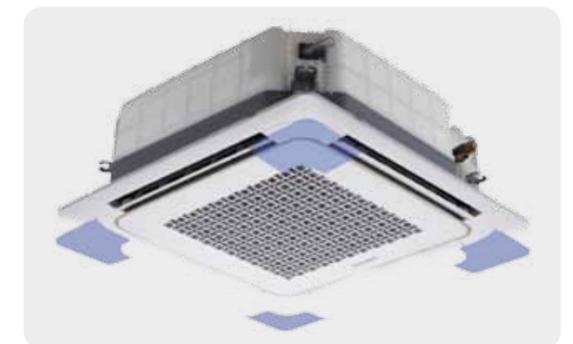
No Overflowing Drain Water

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.



Stylish 4Way Cassette S

4Way Cassette S

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.



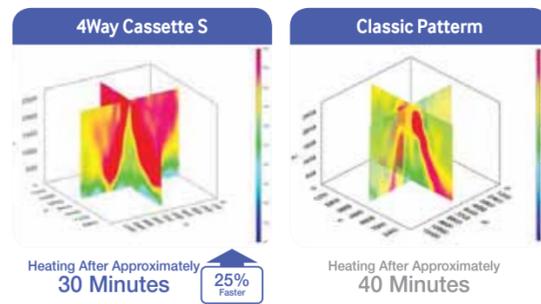
Easy Blade Cleaning

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.



Quick Cooling and Heating

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



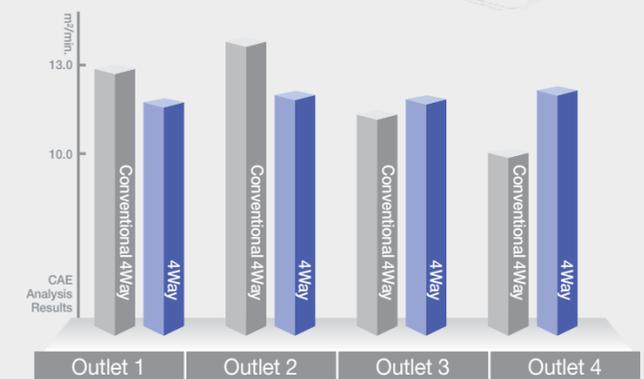
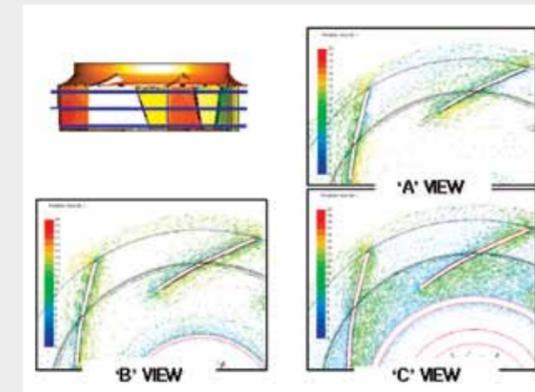
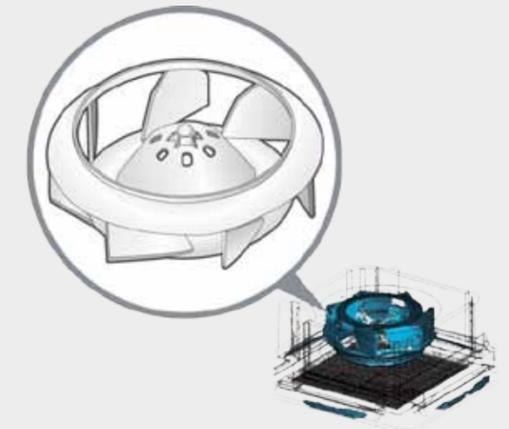
Turbo Fan

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.

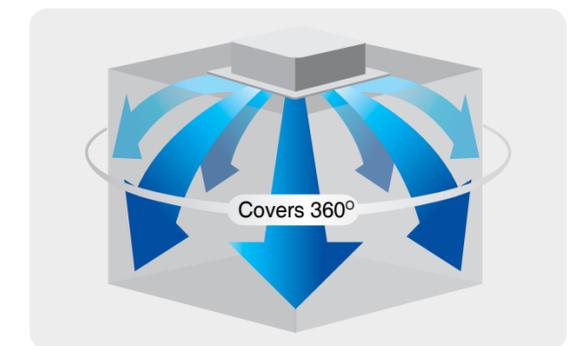
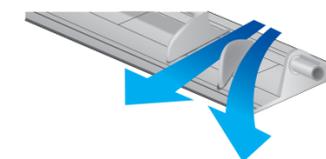
Uniform Distribution

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.



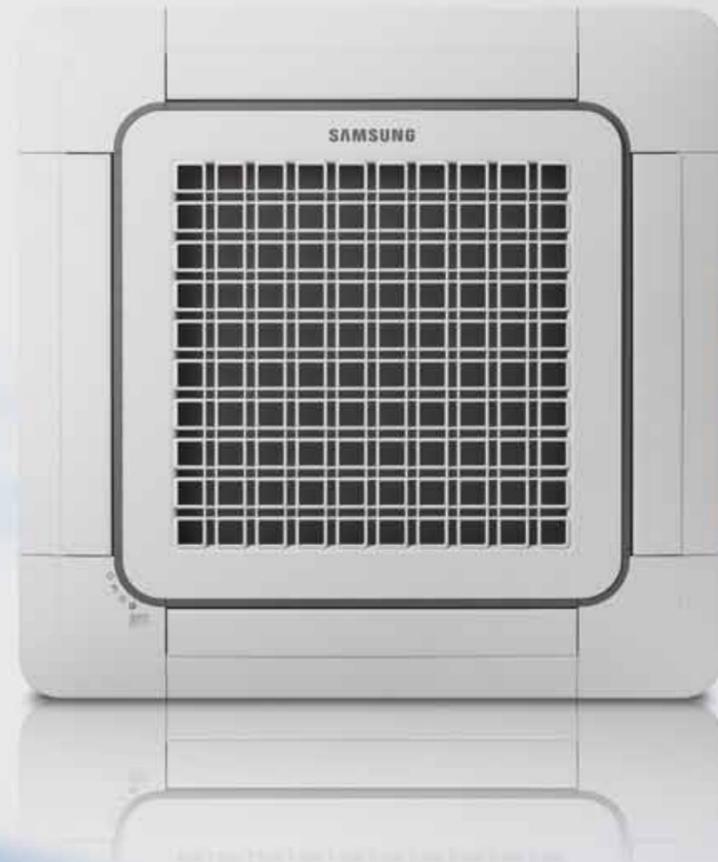
Surround Air Flow

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.



4Way Cassette S (600x600)

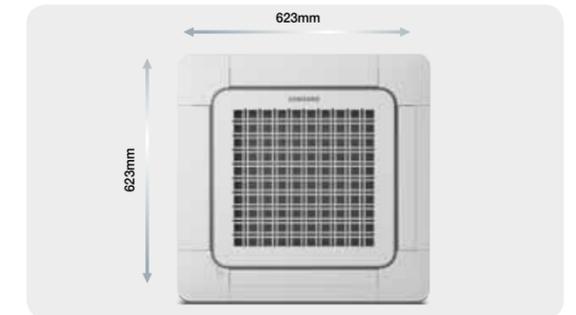
The advanced 4Way Cassette S(600x600) comes in a variety of patterns to better match your interior design. The stylish cassette visually harmonizes with your space, and its enhanced technologies provide powerful and efficient cooling and heating performance, making it a very dependable and practical air conditioning solution.



Enhanced & Powerful 4Way Cassette S(600x600)

Ideal Compact Size

4Way Cassette S(600x600) air conditioner can be installed on one standard ceiling tile (600Wx600D), which can reduce installation time.



Stylish and Aesthetic Panel

4Way Cassette S(600x600) supports a unique and stylish panel with a simple rounded corner design. Besides its display design with rounded corners adds a neat and tidy feeling to your interior. This aesthetic design blends well into your interior and adds elegance to your space's ambience.



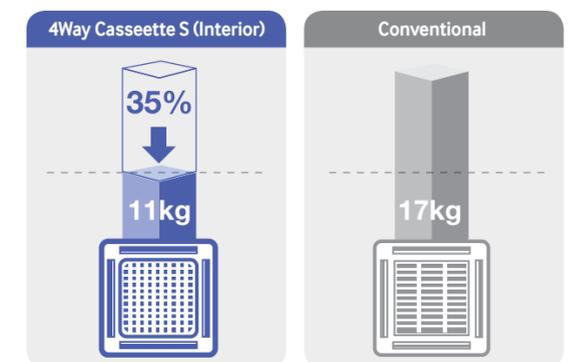
Neat and Clean Design

4Way Cassette S(600x600) 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

4Way Cassette S(600x600) can be easily installed on one standard ceiling tile (600Wx600D) with its lightest weight about 35% lighter than the competitor's.



*Based on 3.5kW

- Features**
- Ideal Compact Size
 - Stylish and Aesthetic Panel
 - Neat and Clean Design
 - Compact and Light Unit
 - Virus Doctor (optional)
 - Individual Blade Control
 - No Overflowing Drain Water
 - Surround Air Flow

Enhanced & Powerful 4Way Cassette S(600x600)

4Way Cassette S (600x600)

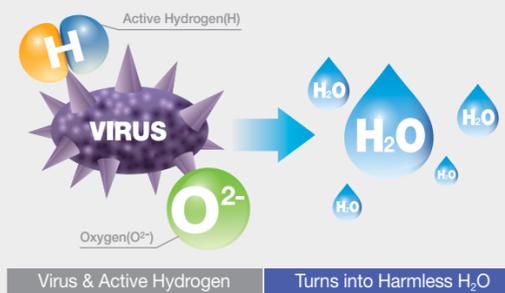
Virus Doctor (optional): Healthy Air Provider

Healthy Air Provider

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



Virus Doctor 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.

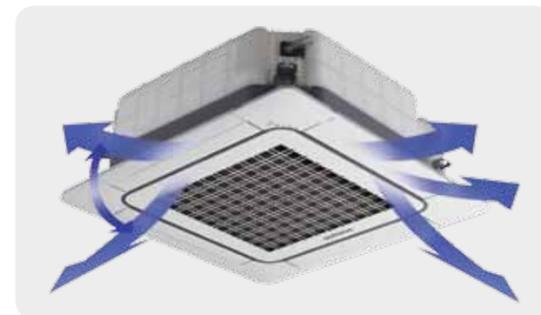


- Elimination of airborne virus & bacteria (Subtype H1N1)
- Complete eradication of bacteria
- Relief of allergies by eradicating airborne allergens
- Neutralization of OH-radical (as known as active oxygen)



Individual Blade Control

By using 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.



MDS; Motion Detect Sensor (Optional)

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

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.



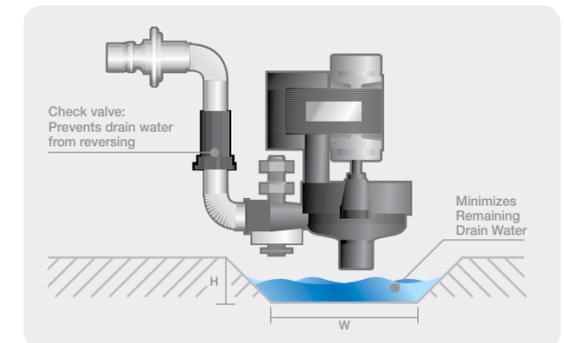
Pleasant and Comfortable Air

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.



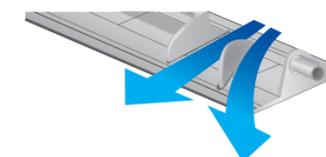
No Overflowing Drain Water

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.



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.



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.



Slim & Quiet Slim 1Way Cassette

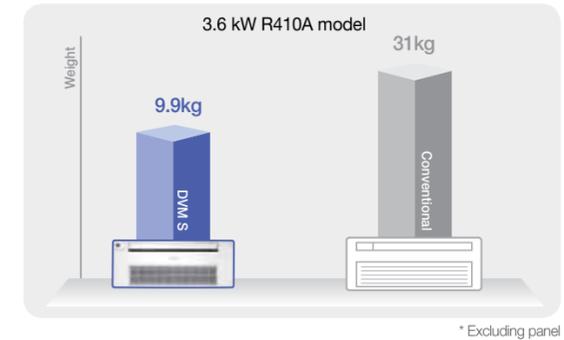
Stylish and Aesthetic Panel

Slim 1Way Cassette provides simple and refined design. The clean lines and simple display design make this a modern classic, which looks great with any interior.



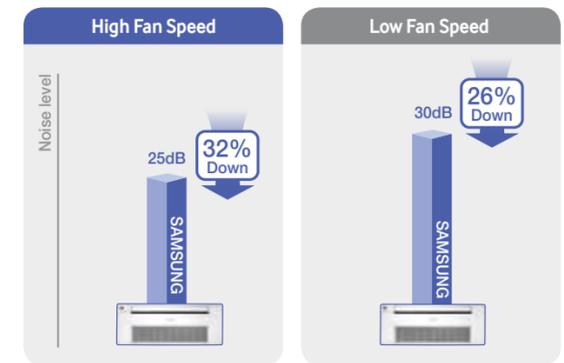
Lighter Indoor Unit

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.



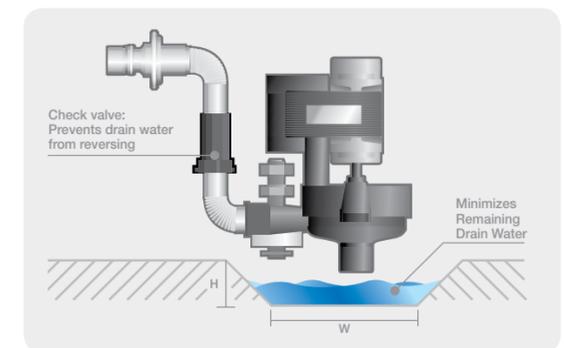
Quiet Operation

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.



Features • Stylish and Aesthetic Panel • Lighter Indoor Unit • Neat and Clean Design • No Overflowing Drain Water

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.



Compact but Powerful 2Way Cassette

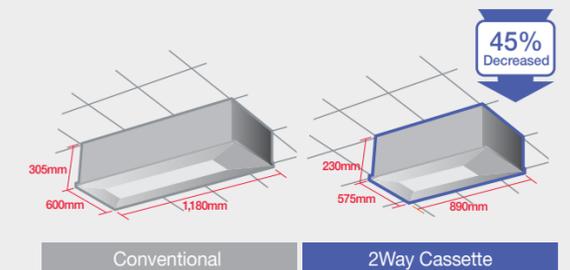
Ideal for Long and Narrow Places

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.

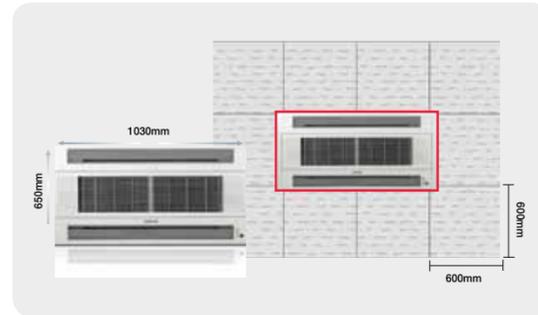


- Features**
- Ideal for Long and Narrow Places
 - Standard formula for Easy Installation
 - Twin Cross Flow Fan
 - Auto Surround Swing
 - Self-diagnosis Mode
 - Optimum Temperature Control

Compact but Powerful 2Way Cassette

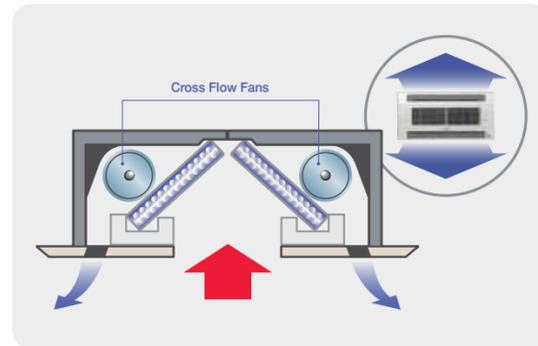
Standard formula for Easy Installation

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.



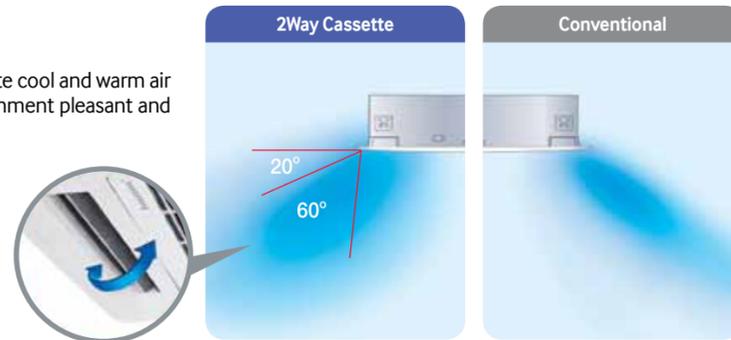
Twin Cross Flow Fan

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.



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.



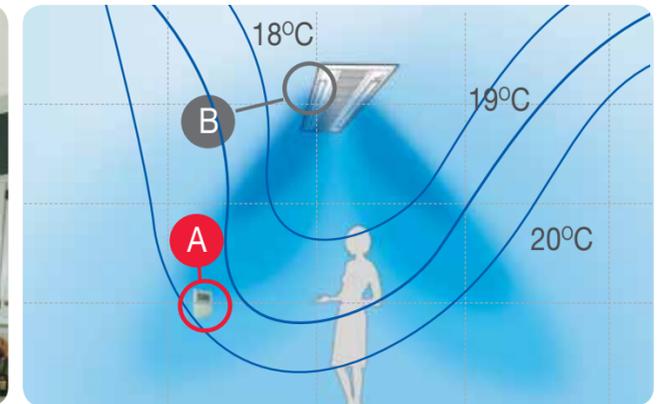
Self-diagnosis Mode

In case of unit malfunction, the indoor unit operates the selfdiagnosis 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

* The average temperature is set at 190C



Ducted Type

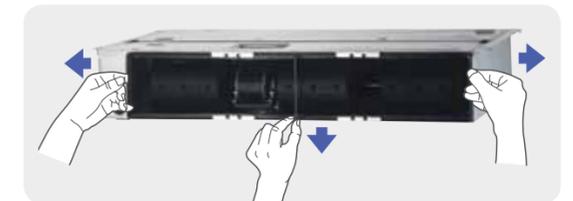
Pre Filter

Pre filter traps dust particles.



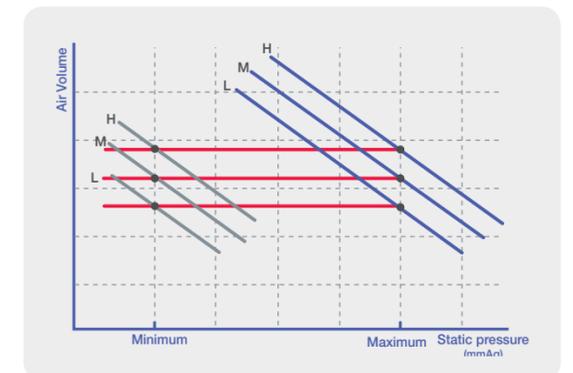
Easy Filter Cleaning

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

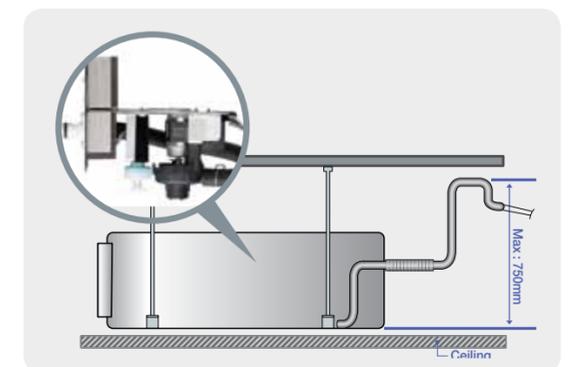
Smart Pressure Control System adjusts fan speed according to E.S.P (External Static Pressure) so the air conditioner always provides you with consistent cooling and heating power, regardless of the surrounding environment.



High Lift-up Drain Pump (Optional)

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.



Global Duct



- Features**
- The Slimmest and The Lightest
 - Global Top Efficiency
 - Powerful Cooling
 - Smart Tuning
 - Automatic Air-Volume
 - Access from 3-directions

Flexible Installation

The Slimmest and The Lightest

Smart Installation makes it easy and convenient to install and maintain in any building.



Slim Fit

Compact Slim Fit design reduces its volume and weight compared to conventional air conditioners. It's 30% smaller, so it fits into small spaces. Although the size is smaller, but the efficiency is increased.



Ultimate Light-weight

Easily Handled thanks to light-weight in the world.



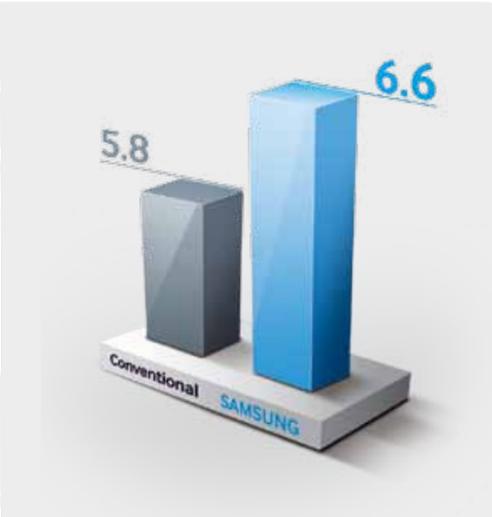
conventional

[10kW Inv. DLX]
42% less

High Efficiency

Global Top Efficiency

Achieved top energy efficiency by adopting up-to-date technologies.



Twin Rotary BLDC Compressor

Effective reluctance by reducing fluctuation and vibration by 75%



FME/FMC (Flat Micro-channel Evaporator/Condenser)

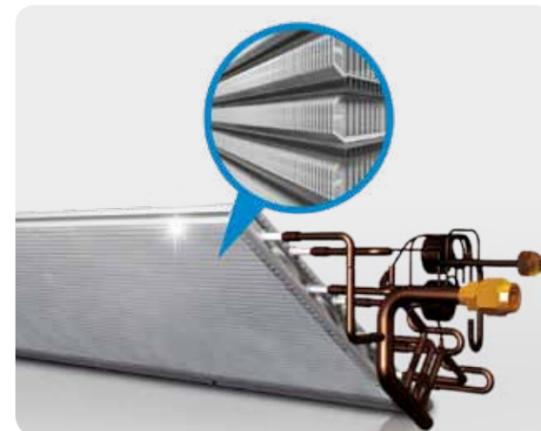
SAMSUNG's FME/FMC(Flat Micro-channel Evaporator/Condenser) technology achieves a 30% increase in efficiency compared with the conventional fin & tube type. It has also enabled a 30% decrease of unit size.

| | Heat Exchange Ratio |
|------------|---------------------|
| Fin & Tube | 100% |
| FMC | 130% |

Enhanced Performance
30% enhanced heat exchange ratio



Anti-Corrosion Coating
Corrosion resistance has been improved compared to current model



Powerful Cooling



New Sirocco Fan

Ensures enough air-volume by adopting bigger and better fan compared to conventional one.



More Silent



Aero-dynamic Blade

Increased air-volume by 10% with less noise.



Easy Air Tuning

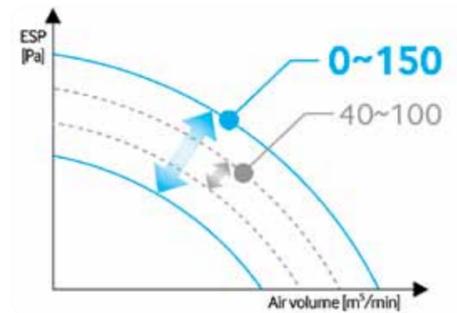
Smart Tuning

Smart Tuning provides the delicate control needed for optimum comfort on any occasion. You can easily fine-tune the power of its operation to suit your level of activity, while also ensuring minimum noise and saving energy.



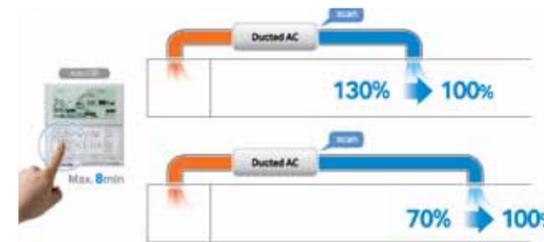
Wide Range of ESP

You can offer a comprehensive range of products, right capacity, right ESP, and right sized product for our customers.



Automatic Air-Volume

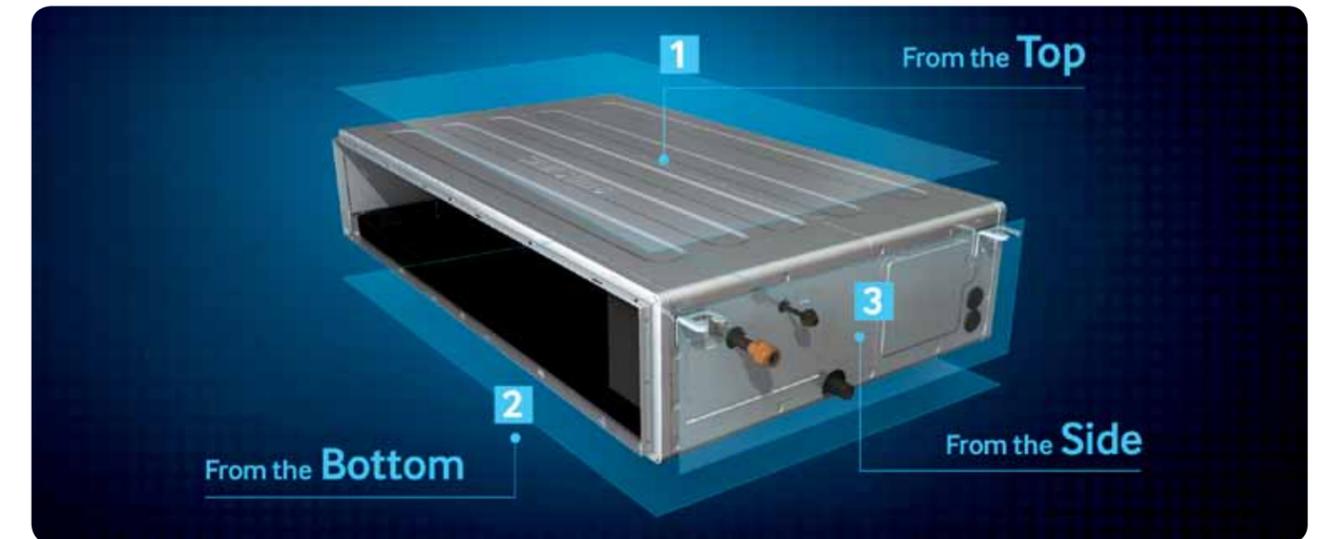
Senses the current air volume and pressure then quickly adjusts its performance to ensure optimum comfort, whatever the length of duct.



3-Way Service

Access from 3-directions

You can also access it from 3 directions (top, side or bottom), and its Slide Fit makes it easier to maintain.



| From the Top | From the Bottom | From the Side |
|--------------|-----------------|---------------|
| | | |
| | | |

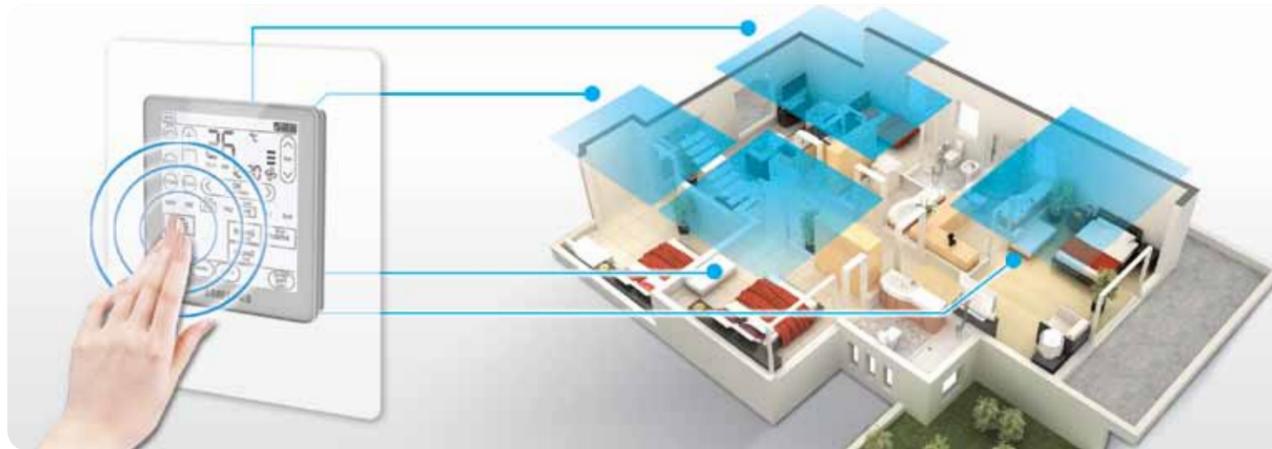
It can be accessed from any direction. (from the top, from the side, and from the bottom)

Smart Control

Sub Features

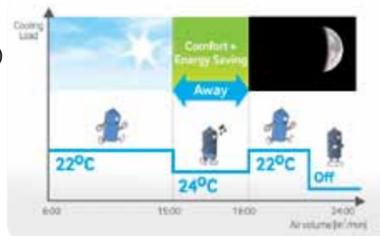
Zone Controller

Zone Controller lets you cool multiple spaces easily and energy-efficiently. Up to 8 zones can be connected and controlled by a single indoor unit, so you can create the perfect atmosphere in different rooms and reduce power consumption by turning on and off the dampers. A wide touch screen, which has a stylish design, enables intuitive and simple operation.



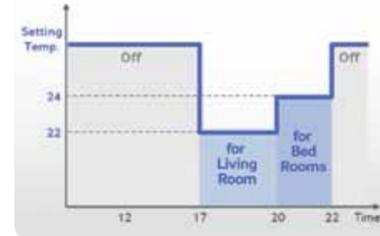
Away Mode

Remain Comfortable, Energy Saving (Thermal Storage Operation)
 - Keep the Room Cool during Summer Season.
 - Keep the Room Warm during Winter Season.



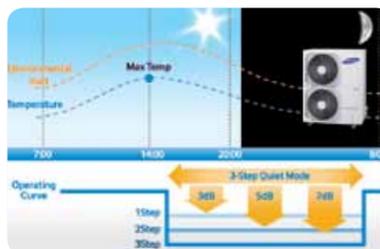
7-Days Programming

You can have separate settings for daytime and nighttime, so you can live and sleep comfortably at home.



3-Step Quiet Mode

- Ensure Quiet Operation during Night Time with Reduced Noise Level at 3~7dB
 - 1Step : 3dB, 2Step : 5dB, 3Step : 7dB



Smart Wi-Fi

Control AC Anywhere, Anytime (Optional)
 - Since You Can Control Your Air Conditioner with Your Smart Phone, You Can Easily Turn It Off from Outside the House.
 - Can Connect Optional Wi-Fi Kit.



Robust Design



Body-on-frame Design
 -any outdoor environment at almost any external temperature

EZ Drain Pump



1. Plug & Connection External Type Drain Pump (Optional)
 -Just Plug and Connect It
 -Only One Drain Pump throughout All Units

2.Free from Bacteria and Fungi
 - It's Free from Bacteria, Fungi, and other Stagnations Because There's No Water on Drain-Pan
 Prevent from Back-Flowing of Drain Water

Virus Doctor



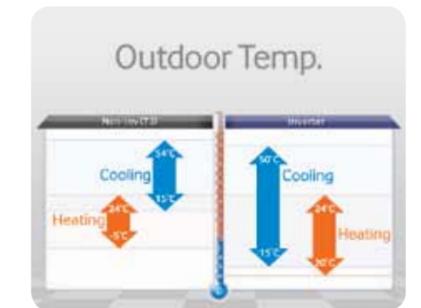
Deliver More Clean Air into Your Room (Optional)
 -Eliminates Airborne Virus & Bacteria
 -Completely Eradicates Bacteria
 -Eradicates Allergens Which Causes Allergies
 -Neutralizes OH-radical (Known as Active Oxygen)

EZ Filter



Easy to Assemble & Disassemble

Wide Range of Operation



Any outdoor environment at almost any external temperature
 T1, Cooling : -15°C ~ 50°C
 Heating : -20°C ~ 24°C
 T3, Cooling : 15°C ~ 54°C
 Heating : -5°C ~ 24°C

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.

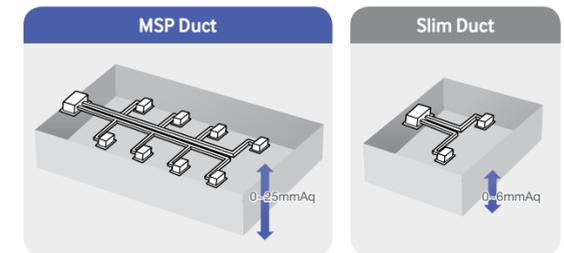


- Features**
- Strong and Large Coverage Area
 - Silent Operation with the Static Pressure Control
 - Narrow Width
 - Easy to Maintain

Silent and Strong MSP Duct

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.



Slim Duct S

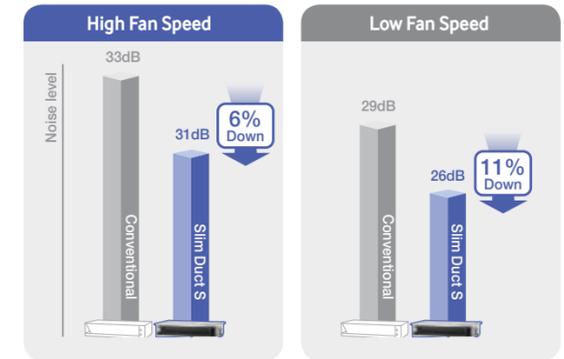
The new Slim Duct S visually blends into ceilings while providing powerful cool and warm air. It's also easy to install and maintain in any interior space regardless of the surrounding environment due to its compact size and weight, which is the lightest in the industry.



Light and Compact Slim Duct S

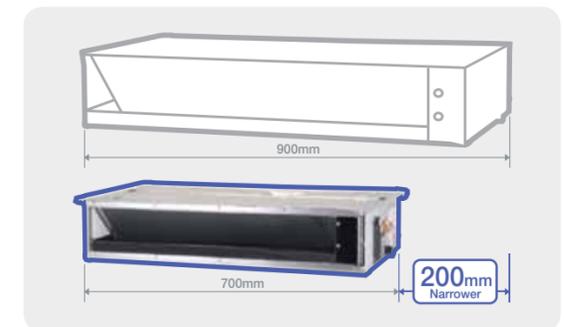
Quiet Operation

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.



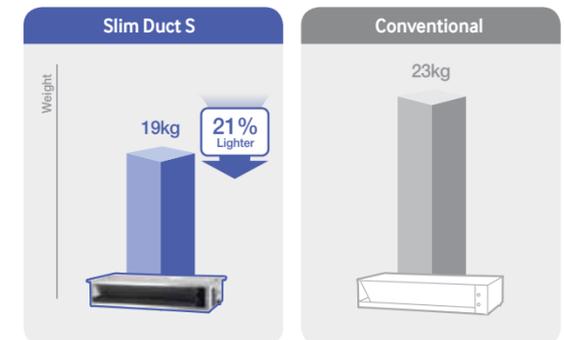
Compact Size

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 Duct

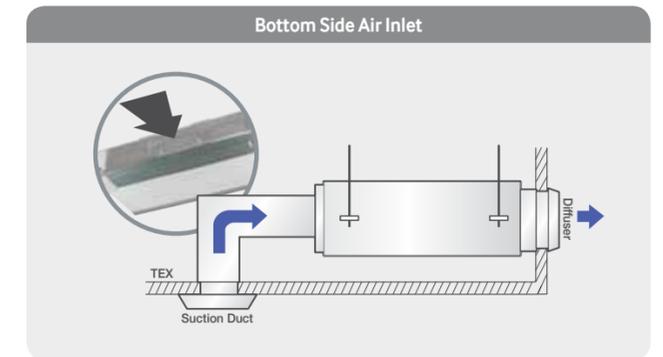
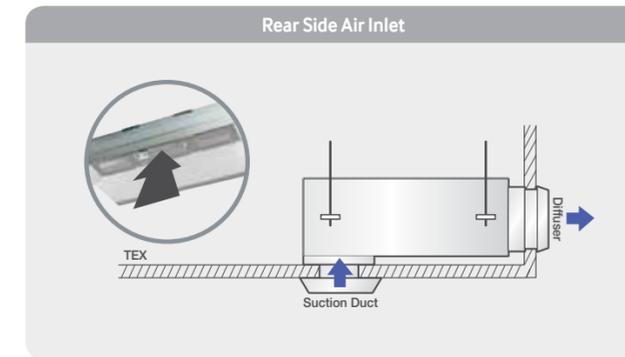
Slim Duct enables flexible installation options, and can be used for many differently shaped rooms with its rear and bottom side air inlets. Concealed behind ceilings, Slim Duct enhances the luxurious ambience of your space while providing fresh and powerful cool air.



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.



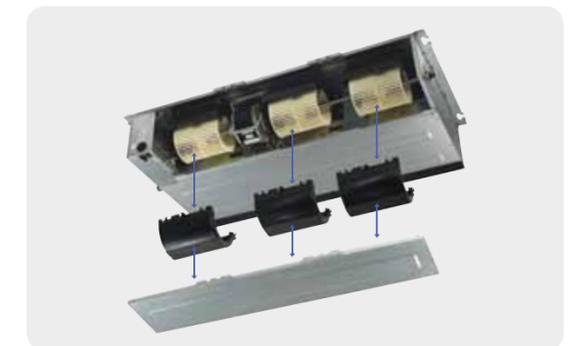
Easier Drain Pump Installation

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.



Features • Flexible Installation • Easier Drain Pump Installation • Silent Operation with the Static Pressure Control • Easy to Maintain

HSP Duct

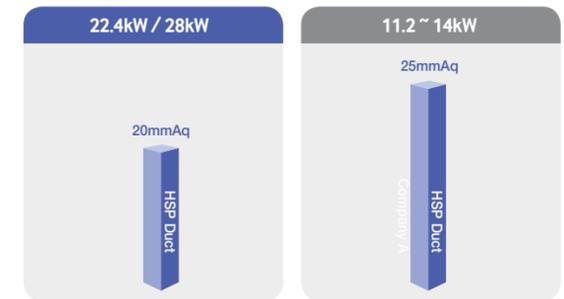
Managing high external static pressures up to 25mmAq, this powerful HSP Duct provides a very large coverage area with outstanding cooling and heating performance. HSP Duct is an ideal fit for spaces with high ceilings, and can be flexibly installed in various environments.



Powerful and Flexible HSP Duct

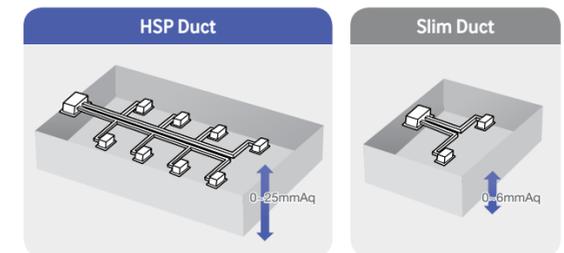
High External Static Pressure

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.



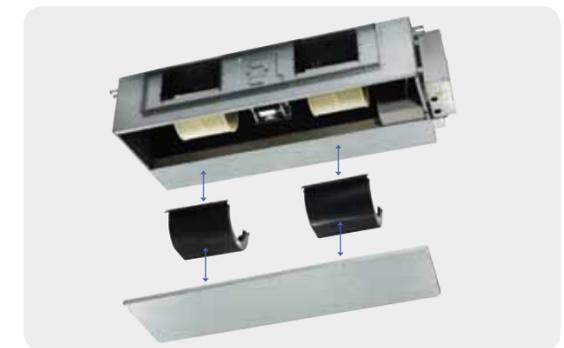
Silent Operation with the Static Pressure Control

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.



- Features**
- High External Static Pressure
 - Strong and Large Coverage Area
 - Silent Operation with the Static Pressure Control
 - Easy to Maintain

Fresh Air Intake Duct

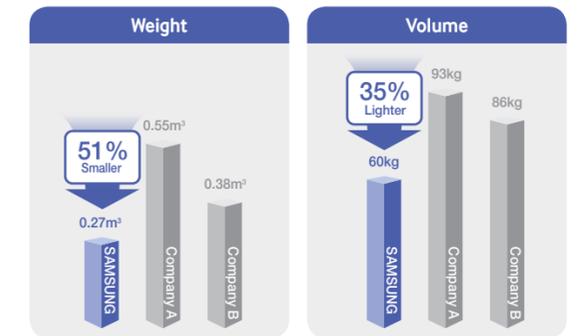
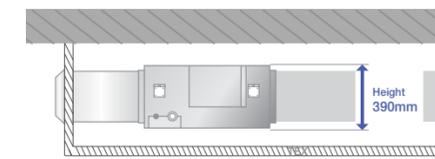
Adopting a highly efficient BLDC motor, the new Fresh Air Intake Duct improves efficiency to the highest level, significantly reducing energy consumption and operation sound level to create a more pleasant and comfortable environment for you. Breathe real fresh air and stay healthy with the new Fresh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



Quiet and Efficient Fresh Air Intake Duct

Flexible Installation

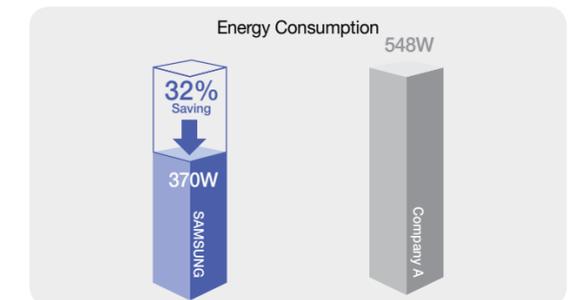
This light and compact unit, with its shorter height of 390mm, enables you to conveniently install and manage it in a variety of areas and installation options.



* Comparison is based on 5HP Duct.

Highly Efficient BLDC Motor

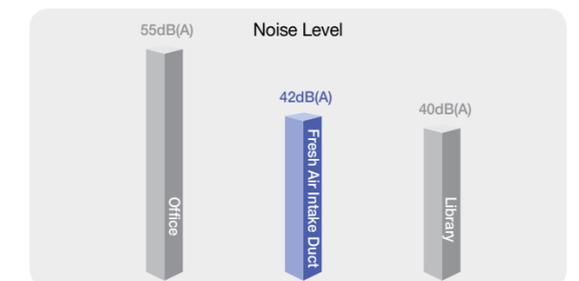
The BLDC motor enables Fresh Air Intake Duct to perform at the highest efficiency possible, saving energy up to 32% for more economical and practical operation.



* Comparison is based on 5HP Duct.

Quiet Operation

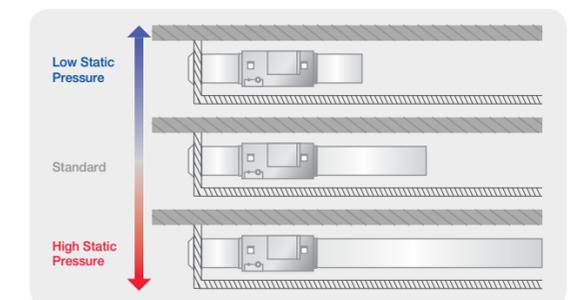
Equipped with the highly efficient BLDC motor, Fresh Air Intake Duct operates quietly with a sound level as low as 42 Decibels, slightly higher than that of a library, to provide your environment with optimum comfort.



* Comparison is based on 5HP Duct.

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.





Wall-mounted Type

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.

Full HD Filter

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



Virus Doctor

How Virus Doctor Works
Virus Doctor 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
- Safe from allergy-causing agents
- Controls active oxygen which can cause disease, cancer and accelerated aging
- Protects against disease

H **O₂⁻** + **Harmful substances** = **H₂O**

Active Hydrogen & Oxygen ions + Harmful substances = Harmless water

Active Hydrogen and Oxygen ions are generated → Combines with harmful substances OH radical, harmful viruses and bacteria. → Turns into harmless water

good'sleep

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



AR9000, 7000, 5000 Series



Triangle Design For Powerful Cooling

The Samsung Air Conditioner's unique triangular design radically improves its performance, circulating cool air faster and further around your home. Its Smart Inverter also provides significantly greater energy efficiency. And its Virus Doctor and Easy Filter eliminates dust, contaminants, allergens, bacteria and viruses - firstly using a filter and secondly with Virus Doctor.



Cools Faster, Farther, and Wider

The Samsung Air Conditioner has been designed from the ground up to be outstandingly efficient. Its uniquely triangular design has a wider intake, so more air can be drawn in. The improved width and angle of its outlet, extra v-blades and a bigger fan also ensure that air is cooled and expelled faster and further. So refreshingly cool air reaches every corner of your room without blind spots.



Easy to Take Out and Clean

Unlike conventional filters that are often difficult to access, the Samsung Air Conditioner's Easy Filter is located outside, on the top. So it can easily be taken out, cleaned and put back without having to open a cover or pull hard to get it out. And its anti-bacterial coating filters dust, dangerous airborne contaminants and allergens.



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.



Features • Full HD Filter • Smart Inverter • Smart Saver • good'sleep

Neo Forte / Neo Forte-E

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.



Features • good'sleep • Deodorizing Filter • Smart Inverter

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.



Slim and Elegant Console

Slim & Smart Design

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

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.



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.



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.

* Applicable to CAC only



Features • Slim & Smart Design • 2Way Air Outlets • Silent Operation [23dB(A)]

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.



Slim 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.



7.1kW Model

Concealed Floor Standing

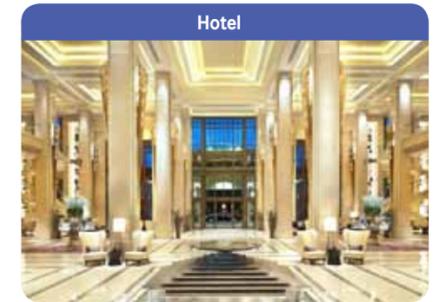
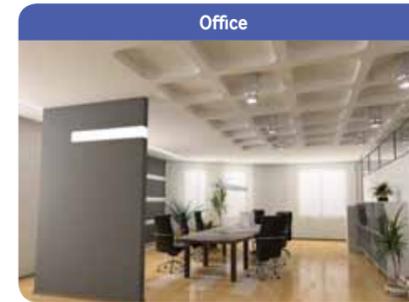
Concealed Floor Standing unit offers the utmost in versatility in solving your cooling and heating needs. This effectively adjusts its performance to meet the needs of the space where has a high ceiling and lots of window while maintaining the desired temperature.



Versatile and Flexible Installation

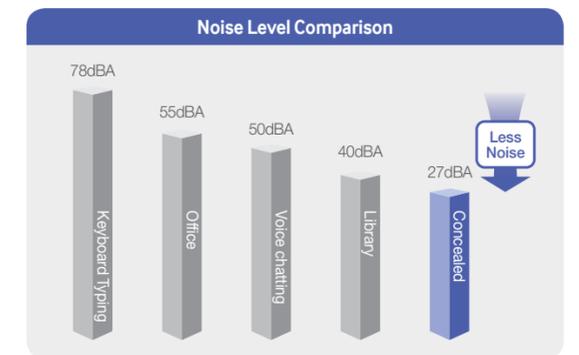
Effective Cooling and Heating System

The Concealed Floor Standing unit offers wide versatility in solving your cooling and heating needs for a space. When this unit is mounted in a window, this blocks the air from getting through the gap in window and maintains desired indoor temperature.



Silent Operation [27dB(A)]

This silent yet powerful and efficient cooling and heating system makes your space more comfortable than ever before.



Features • Effective Cooling and Heating System • Silent Operation [27dB(A)]

All In One System

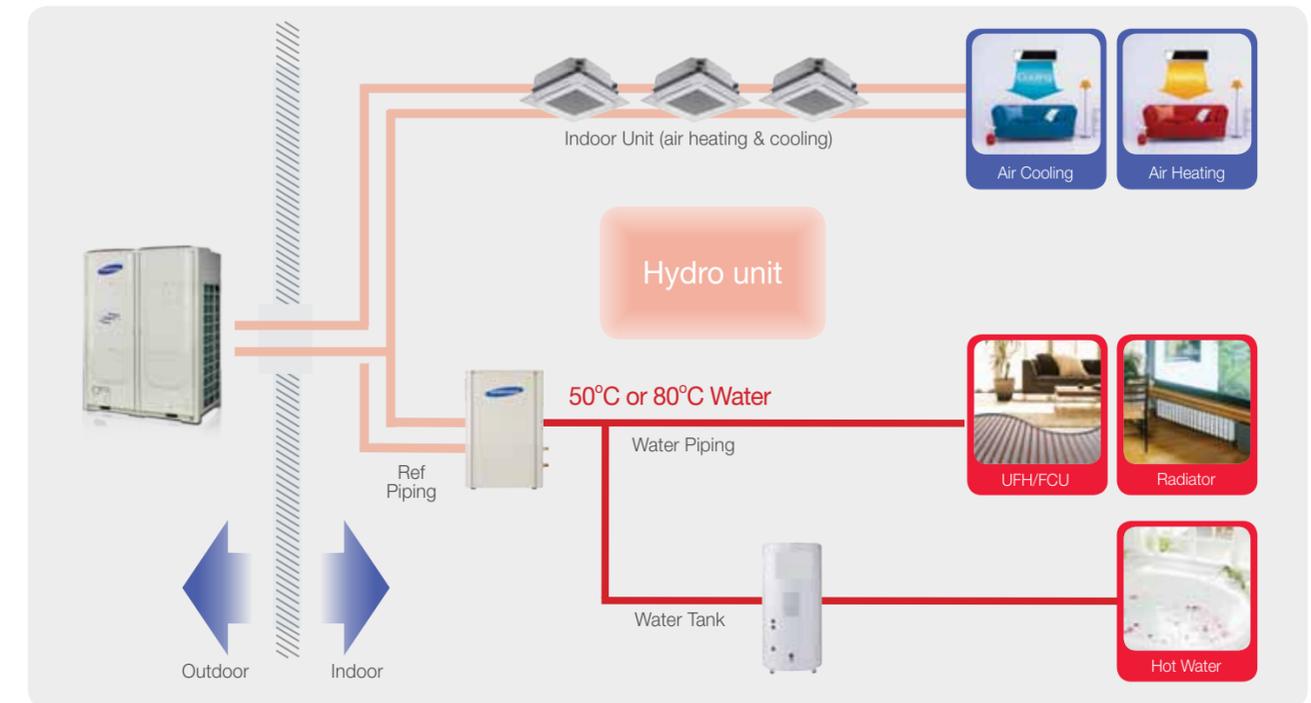
Samsung All In One system is the ultimately optimized heating and cooling solution. This operates not only air-to-water mode but also in air-to-air mode. Combining these two operation modes allow you to save and money on installing the outdoor unit because single outdoor unit is all you need.



Optimized Solution for Commercial Use

Integrated Heating & Cooling System

Samsung All In One System makes air heating and water heating possible with using only a single system. It means you don't need to install boiler and air conditioner separately, and you can ultimately save space, energy and money with All In One system.



Simple Control Scheme

Already equipped with all related input & output terminals
(No need to connect with BACnet / Lonwork Interface-kit)



- Features**
- Integrated Solution in One System (Air+ Water)
 - Can Provide 50°C Hot Water or 80°C Hot Water
 - High COP Operation with Heat Recovery Technology
 - Integrated Control System

ERV System

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



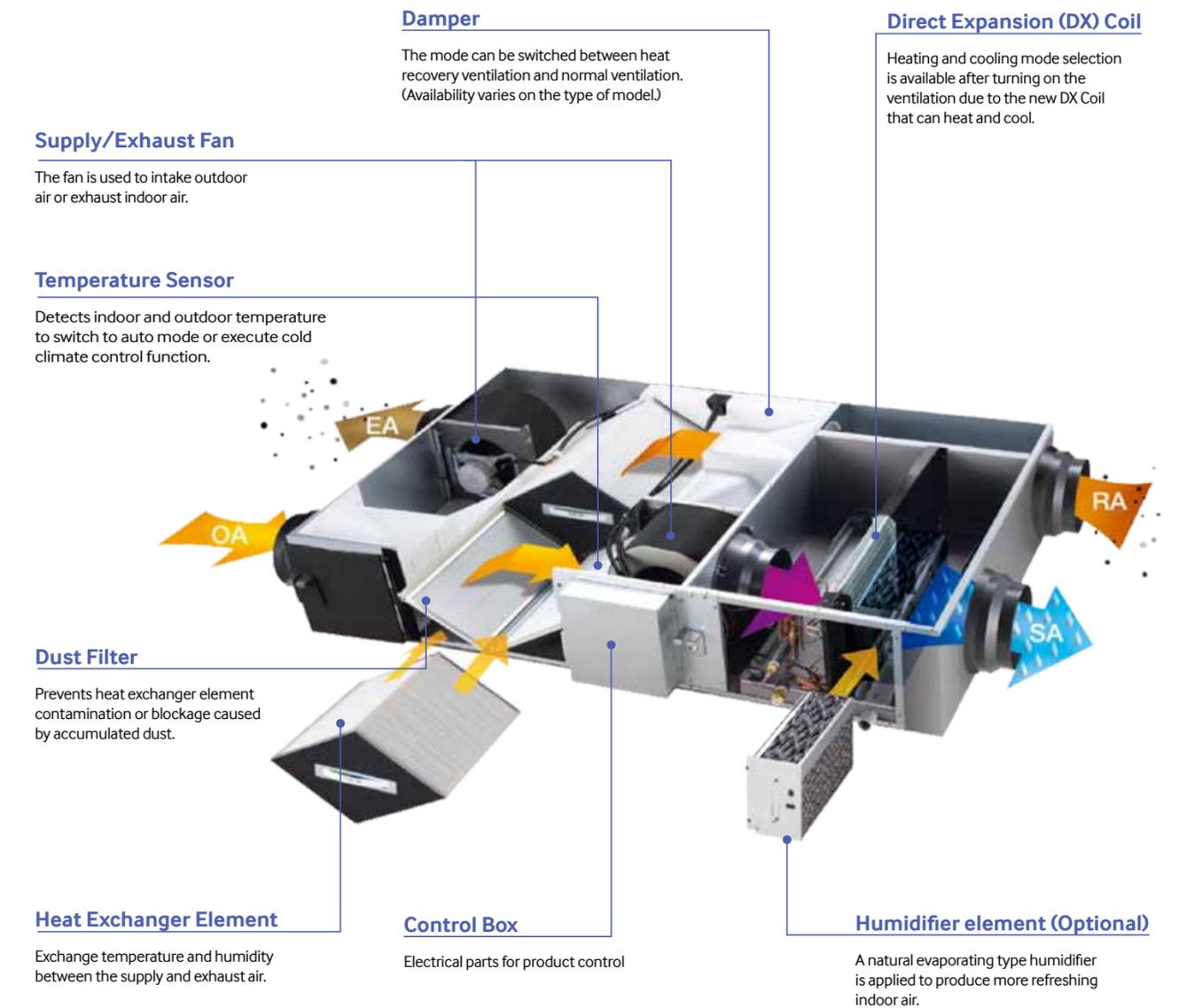
ERV / ERV PLUS

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.



Clean and Refreshing ERV / ERV PLUS

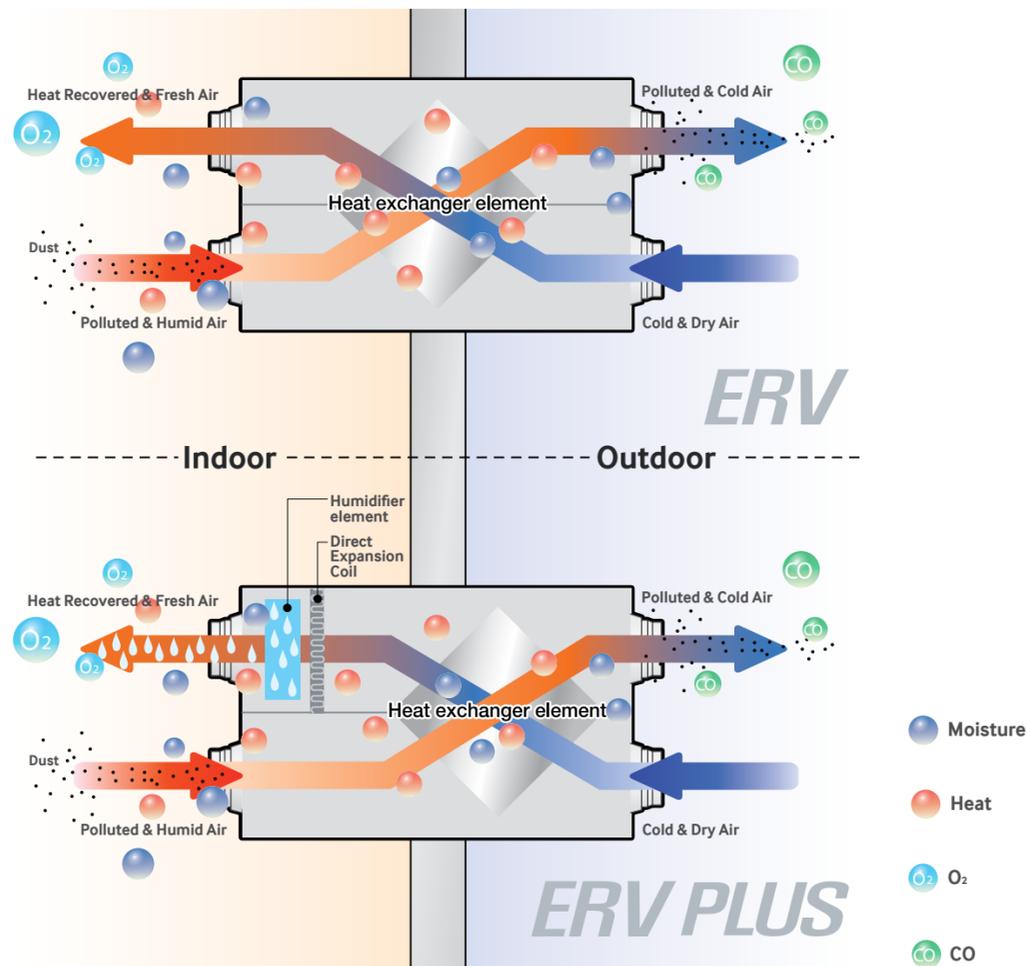
ERV PLUS System Structure



Features • Clean and Refreshing • Energy Saving Operation • Flexible Installation • New Diamond Type • Slim Design

Clean and Refreshing ERV / ERV PLUS

Heat Recovering Method of ERV System



1 Great ventilation efficiency is achieved with a 2-way ventilation design that has air inlets and outlets on both sides of the units.

2 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.

3 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.

Features of ERV / ERV PLUS



ERV PLUS



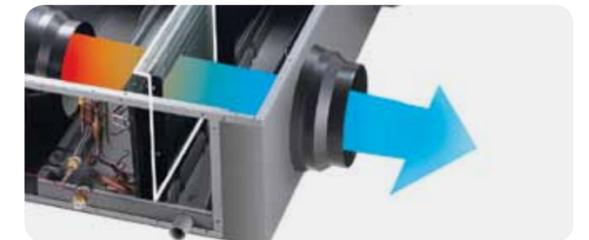
ERV

| | | |
|-------------------------------|---|---|
| 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.



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.

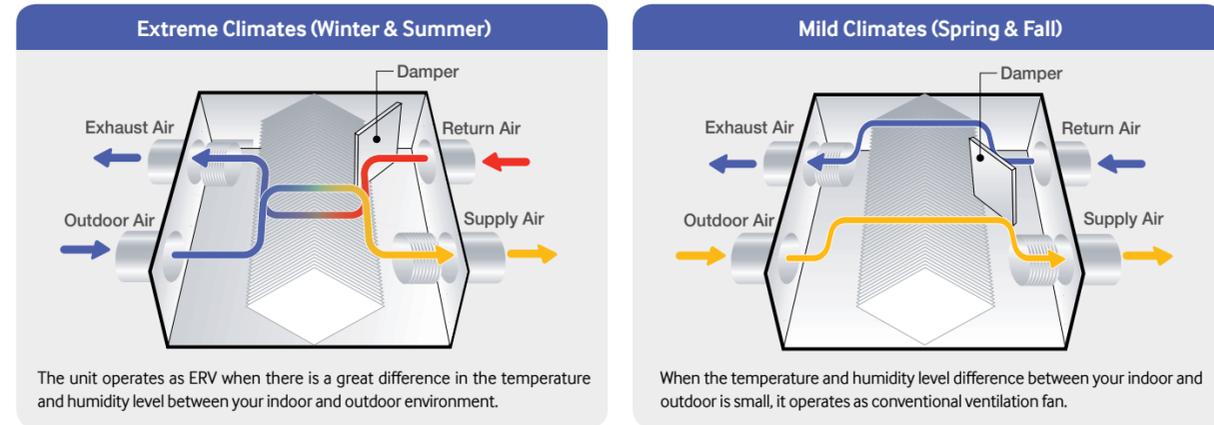


Clean and Refreshing ERV / ERV PLUS

Energy Saving Operation

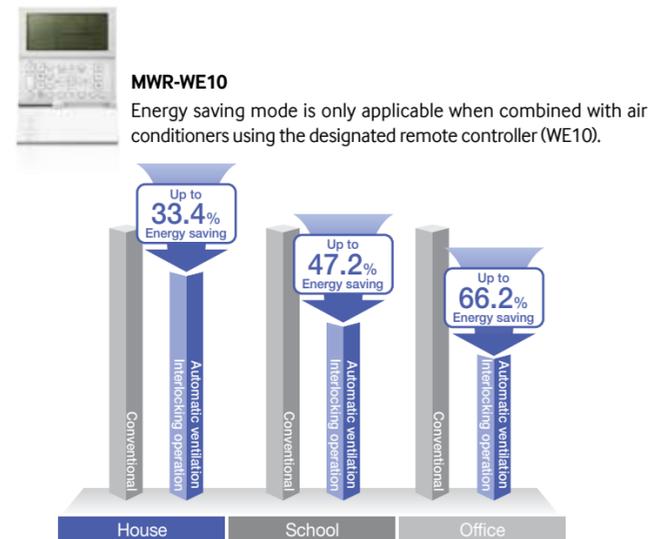
Auto Mode

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



Energy Saving Mode

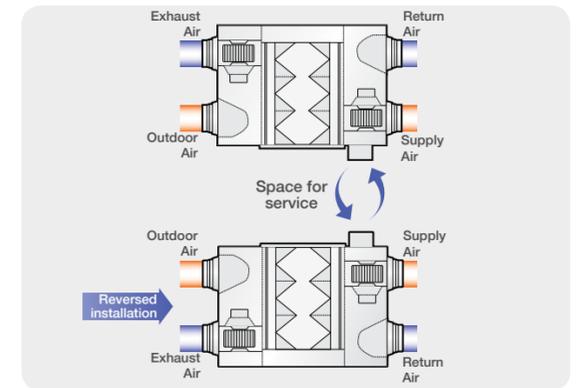
ERV, in combination with air conditioners, provides world-class energy saving solutions to intelligently reduce air conditioner operation hour. This reduces the cooling and heating load while maintaining optimized performance.



Flexible Installation

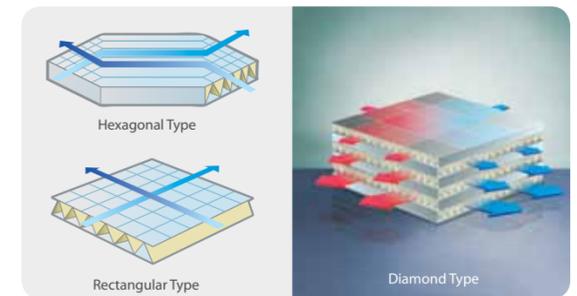
ERV system can be installed horizontally. The installation flexibility will save you time on maintenance when installing more than one unit since you can reduce the number of service holes by installing ERV with the control box facing a single service hole.

* Not applicable for ERV PLUS models.



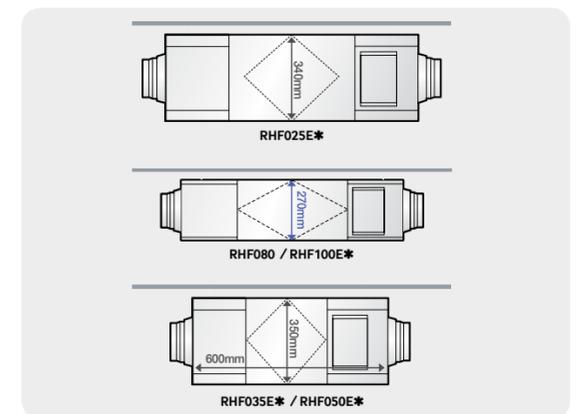
New Diamond Type

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

Flexible and Efficient

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.

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

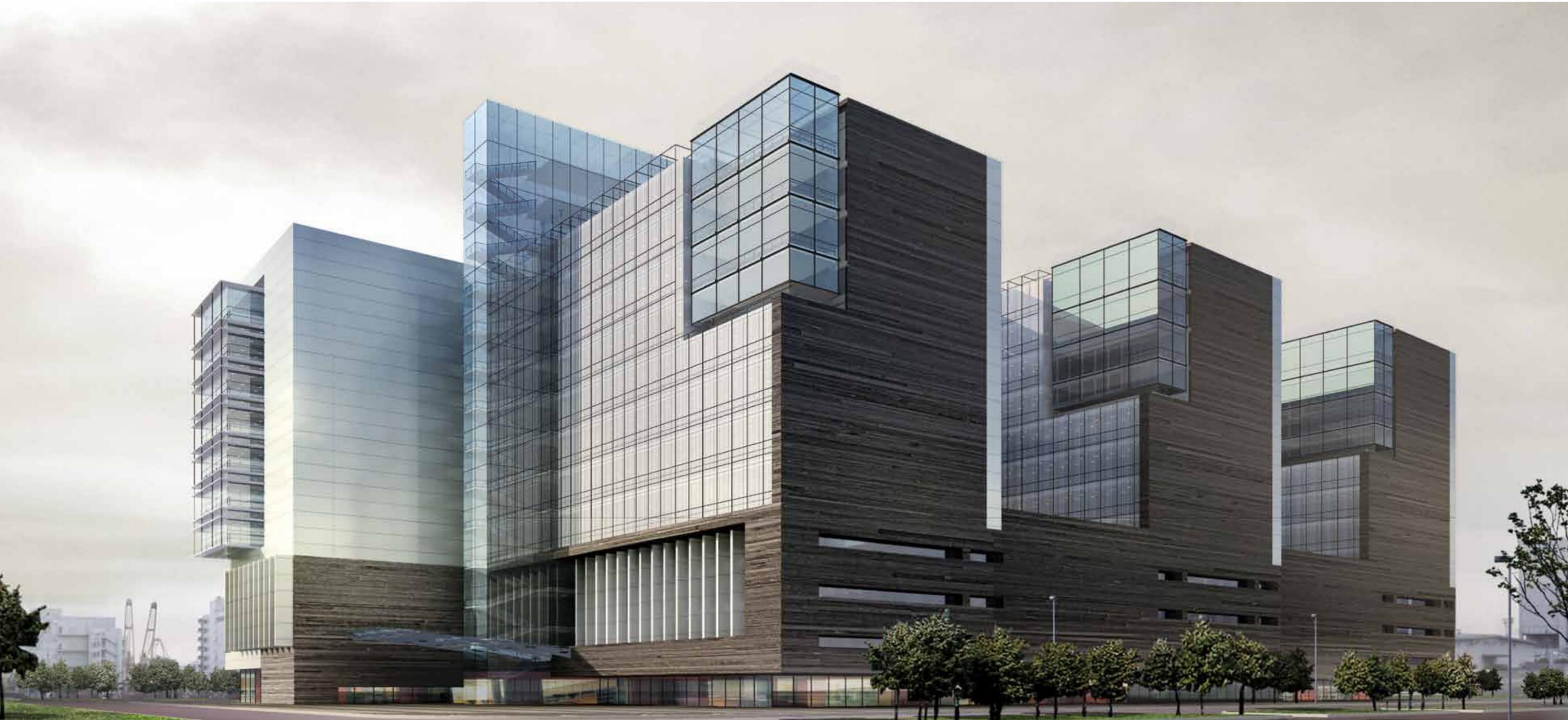
Samsung's control system offers various control options for the indoor units. You can control the multiple units individually or simultaneously in groups to optimize your convenience.

Building Management

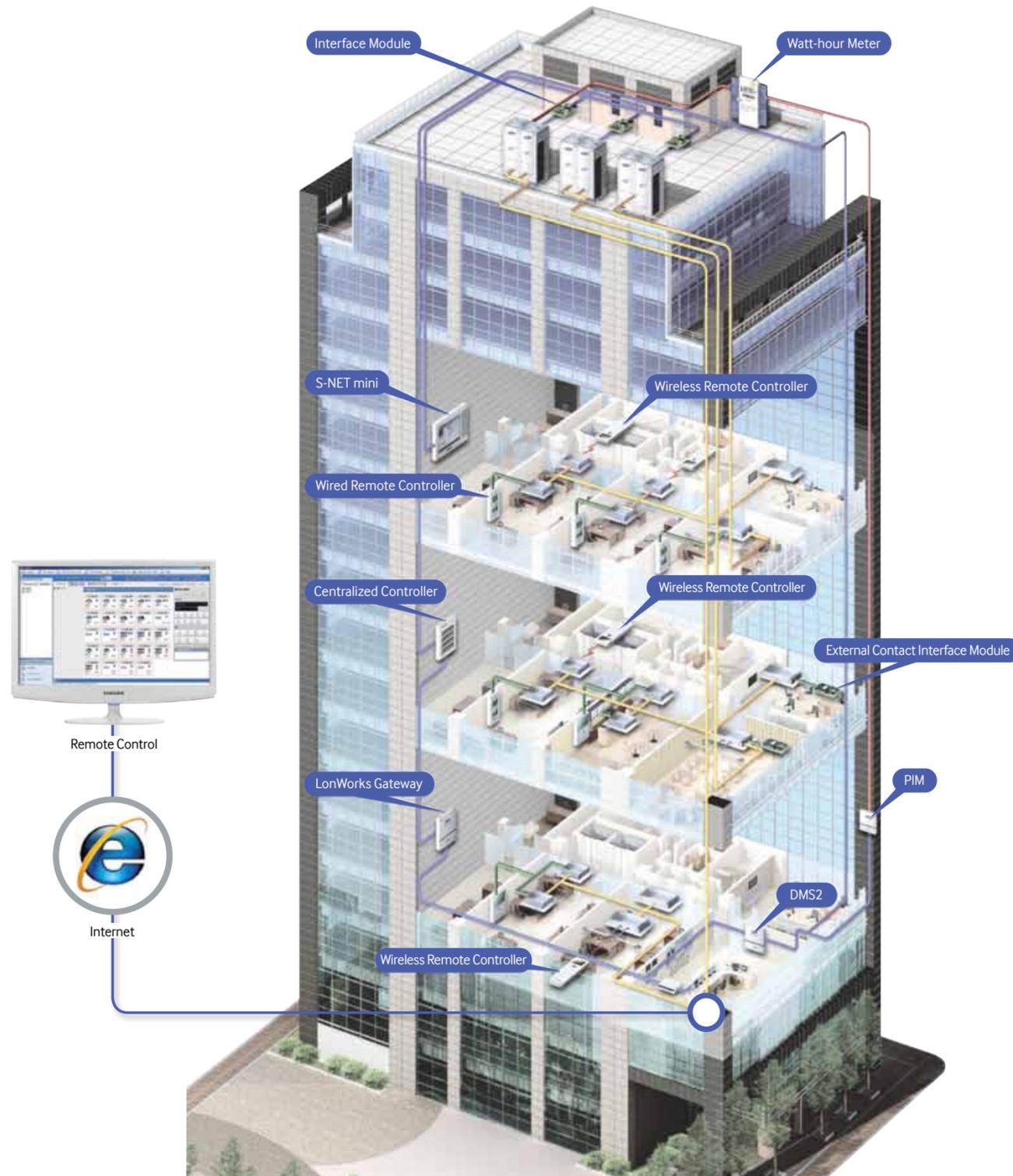
This excellent building management system with convenient monitoring makes management of your air conditioning units much easier and economical.

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 OnOff 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.



On/Off Controller

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



Touch centralized controller

Touch centralized controller is the optimized management solution for middle size site.



Wired R/C , Wireless R/C

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



S-NET 3

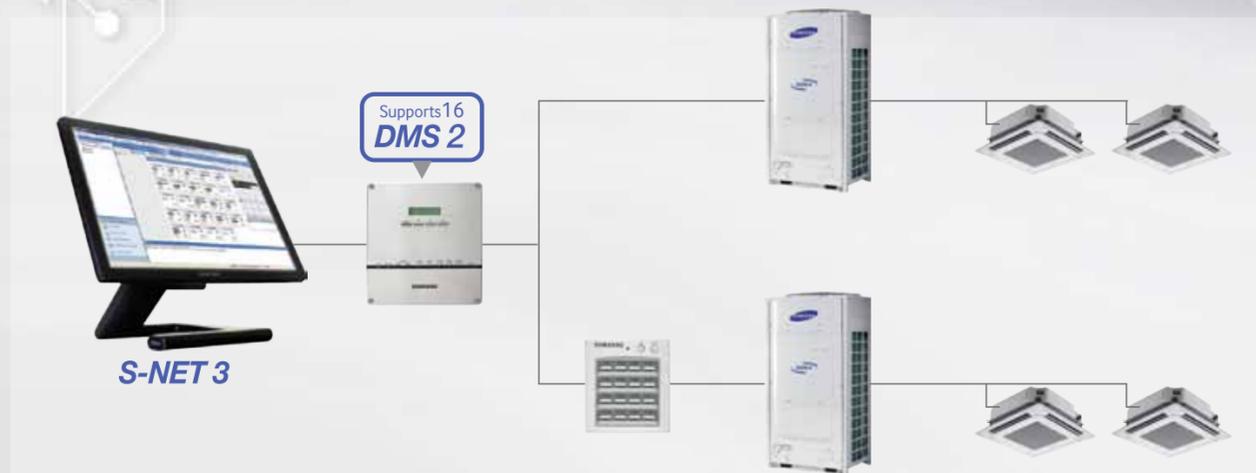
Distributing cool and warm air evenly to all corners of your space, 4Way Cassette provides optimized comfort with its powerful airflow and stylish panel design. By adopting the turbo fan, 4Way Cassette achieves quiet and stable operation in any environment.



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 configuration



Integrated and Complete S-NET 3

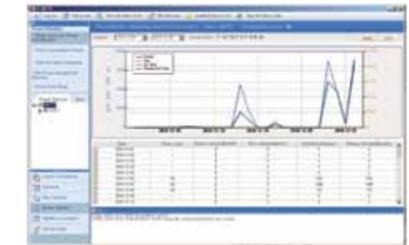
Control and Monitoring

- 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



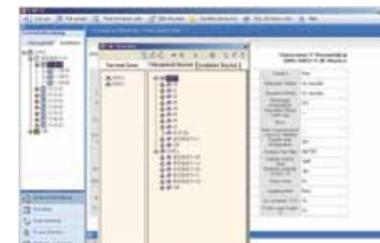
History Management

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

| Unit No. | Unit Name | Event Type | Event Time | Event Description |
|----------|-----------|-------------------|------------------|---|
| 101 | 101-1 | Temperature Error | 2023-10-27 10:15 | Indoor unit 101-1 reported a temperature error. |
| 102 | 102-1 | Operation History | 2023-10-27 10:15 | Indoor unit 102-1 operation history record. |

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)

| Unit No. | Unit Name | Outdoor Unit Model | Indoor Unit Model | Cycle Data |
|----------|-----------|--------------------|-------------------|------------------|
| 101 | 101-1 | Model A | Model B | 2023-10-27 10:15 |

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, OnOff 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
- Supports conventional communication protocol

Comprehensive and Solid S-NET Mini

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



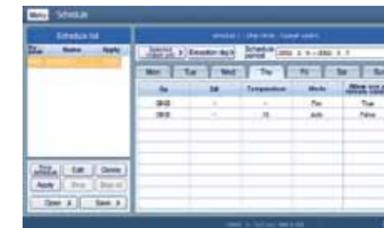
Central Restriction Function

- Upper/Lower temperature limit setting
- Operation mode lock



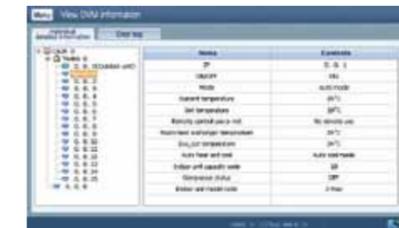
Schedule Control

- 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



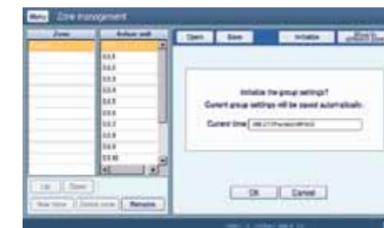
Cycle Monitoring

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



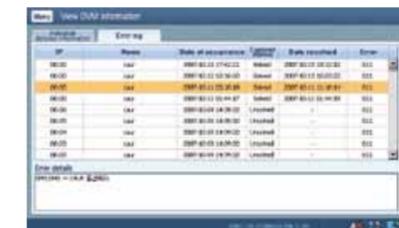
Zone Management

- 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



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 / MIM-D00AN

- 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 configuration



Advanced and Smarter DMS 2

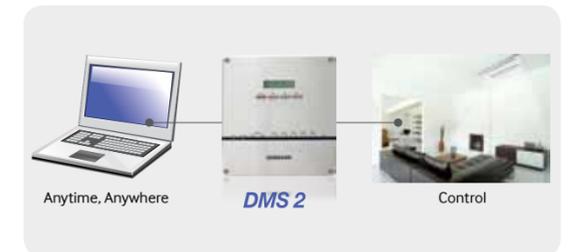
Air-Conditioning Operation Monitoring

- 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 Operation history management

- 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



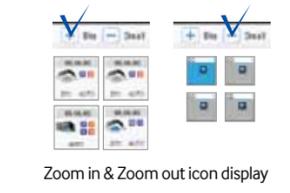
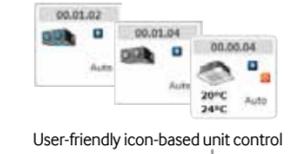
Advanced and Smarter DMS 2

Flexible Connectivity

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



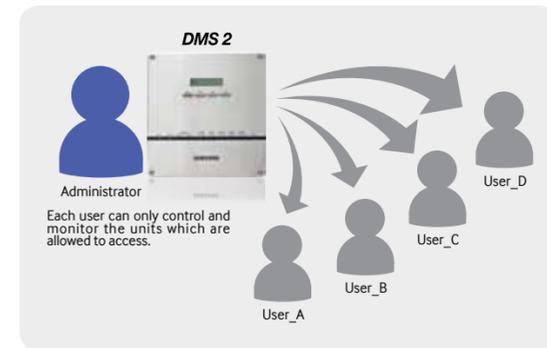
Enhanced Graphical Display



The main graphical display interface shows a grid of indoor unit status cards. Each card displays the unit ID, current temperature, and mode. To the right, a detailed control panel for a selected unit is shown, featuring a 'Convenient & stylish controller' with a digital display, temperature controls, and various mode buttons. A note states: 'Color indication and icons make it easy to recognize indoor unit status.'

Accessible Level Management

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



Powerful Data Backup

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



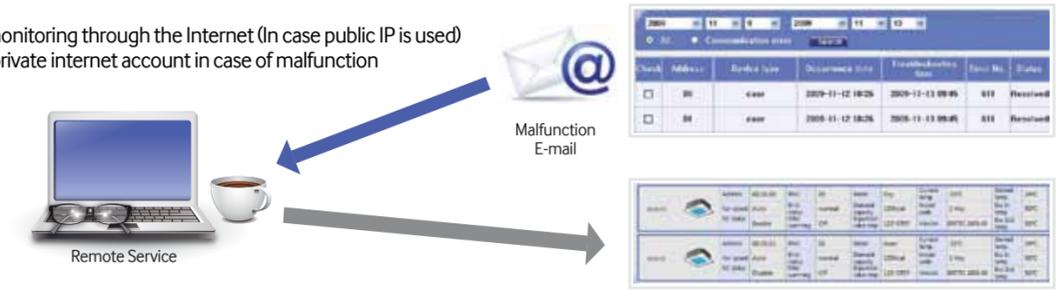
Dynamic User Security Management

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 | ○ | ○ | ○ |
| Zone Management | ○ | ○ | X |
| Schedule | ○ | ○ | ○ |
| Power Distribution | ○ | ○ | X |
| System Configuration | ○ | X | X |

Rapid & Easy Service Response

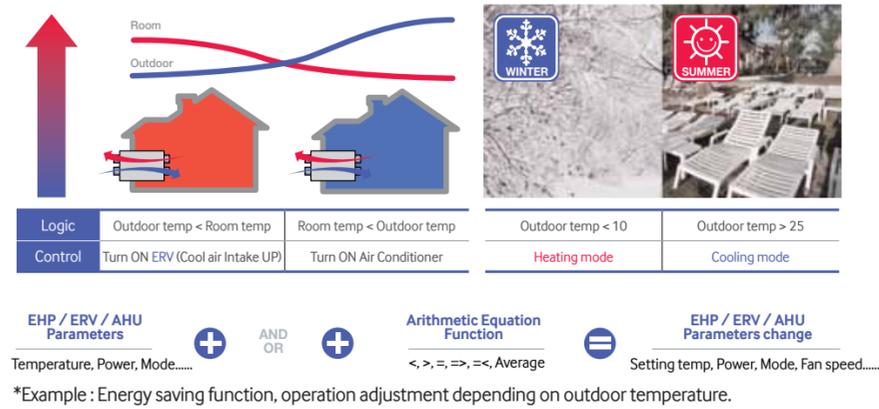
- Remote control and monitoring through the Internet (In case public IP is used)
- E-mail notification to private internet account in case of malfunction



Advanced and Smarter DMS 2

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.



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.



More Extended Contact Interface

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.



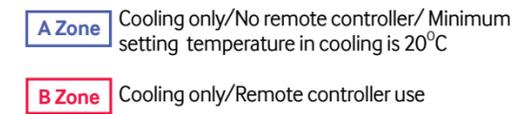
Power Distribution System

- 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



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.



Flexible and Efficient Centralized Control

Touch centralized controller

MCM-A300N

- 7 inch Color Capacitive Touch Screen
- Easy and intuitive UI
- Zone setting and control (Max.12 zone management)
- Emergency operation control by external contact



OnOff Controller

MCM-A202D / MCM-A202DN

- Maximum of 16 group controls
- 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



Flexible and Efficient Centralized Control

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 Plus 4, 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 Plus 4, FJM, CAC and ERV. (It doesn't support ERV PLUS.)



MIM-N01

- Communication interface module between outdoor units and the upper level controller which has different communication type
- Connect 1 interface module to 1 outdoor unit.
- Individual control - Maximum 48 indoor units.
- Group control - Maximum 16 groups.

* Supported communication type

- 1) Conventional communication outdoor unit ↔ New communication upper level controller
- 2) New communication outdoor unit ↔ Conventional communication upper level controller



MIM-N10

- Communication interface module between ERV and the upper level controller. (Exclusive for ERV)
- Connect 1 interface module per 16 ERVs.

* Supported communication type

- 1) Conventional communication ERV ↔ New communication upper level controller
- 2) New communication ERV ↔ Conventional communication upper level controller
- 3) New communication ERV ↔ New communication upper level controller



Centralized 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

Simple & 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-WW00N (For DVM S Hydro)



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 / A10N

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



Simplified Wired Remote Controller

MWR-SH00 / MWR-SH00N

- 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 / MWR-VH12N

- 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)



Building Management Module

The Building Management System provides various control functions to integrately 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

BACnet gateway



LonWorks gateway

Unitive & Various Building Management Module

BACnet gateway

MIM-B17 / MIM-B17N (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.

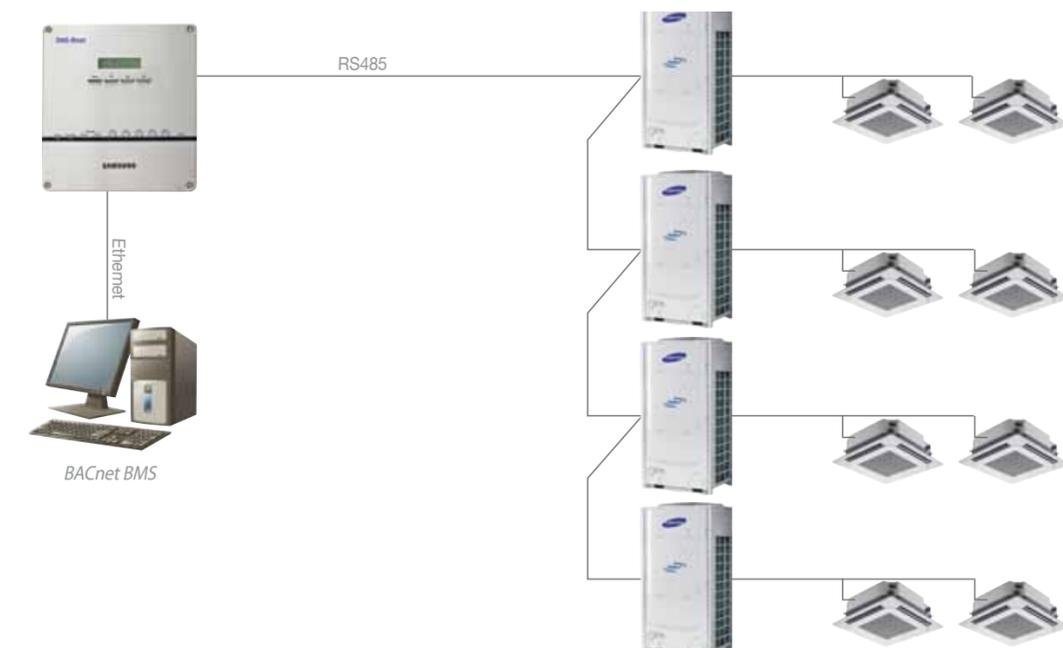
- Interface for BACnet management system
- Maximum 256 indoor units plus ERVs support with a maximum of 80 interface modules
- Includes DMS 2 functions



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

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

Connection



Unitive & Various Building Management Module

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
- Includes DMS 2 functions



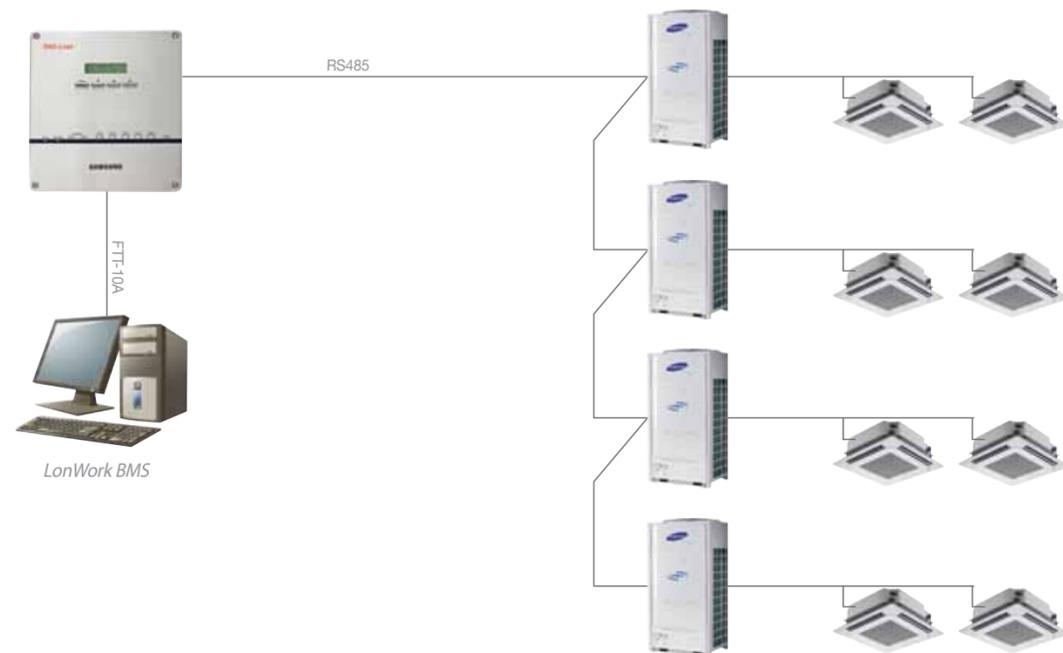
Control

- 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



Watt-hour Meter Interface Module

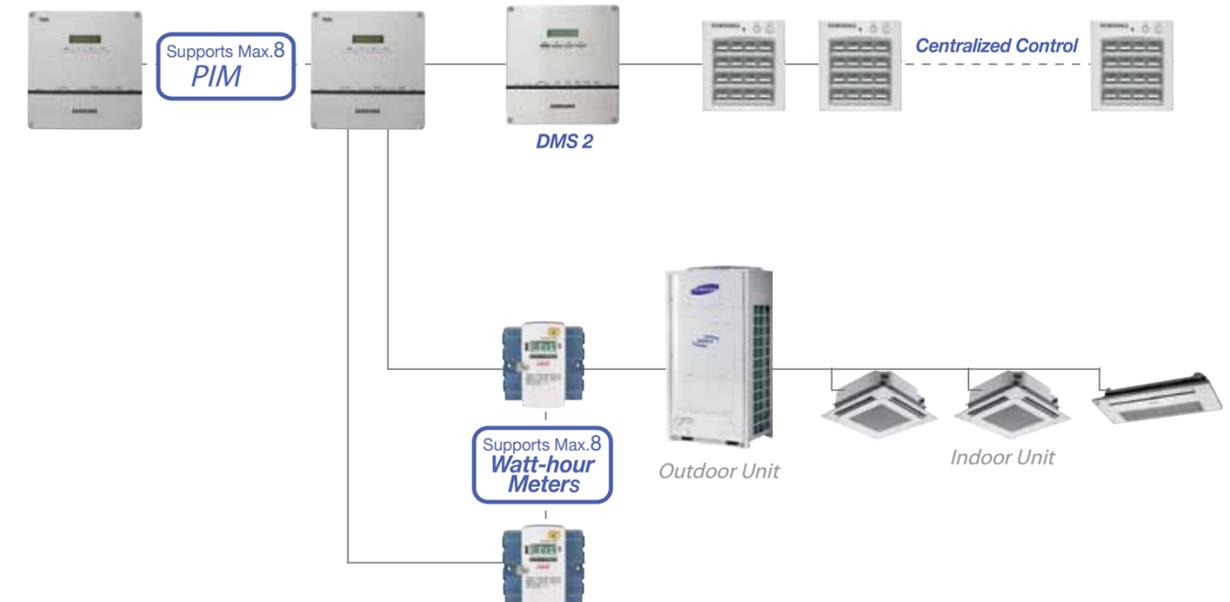
MIM-B16 / MIM-B16N PIM (Pulse Input Module)

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



Connection

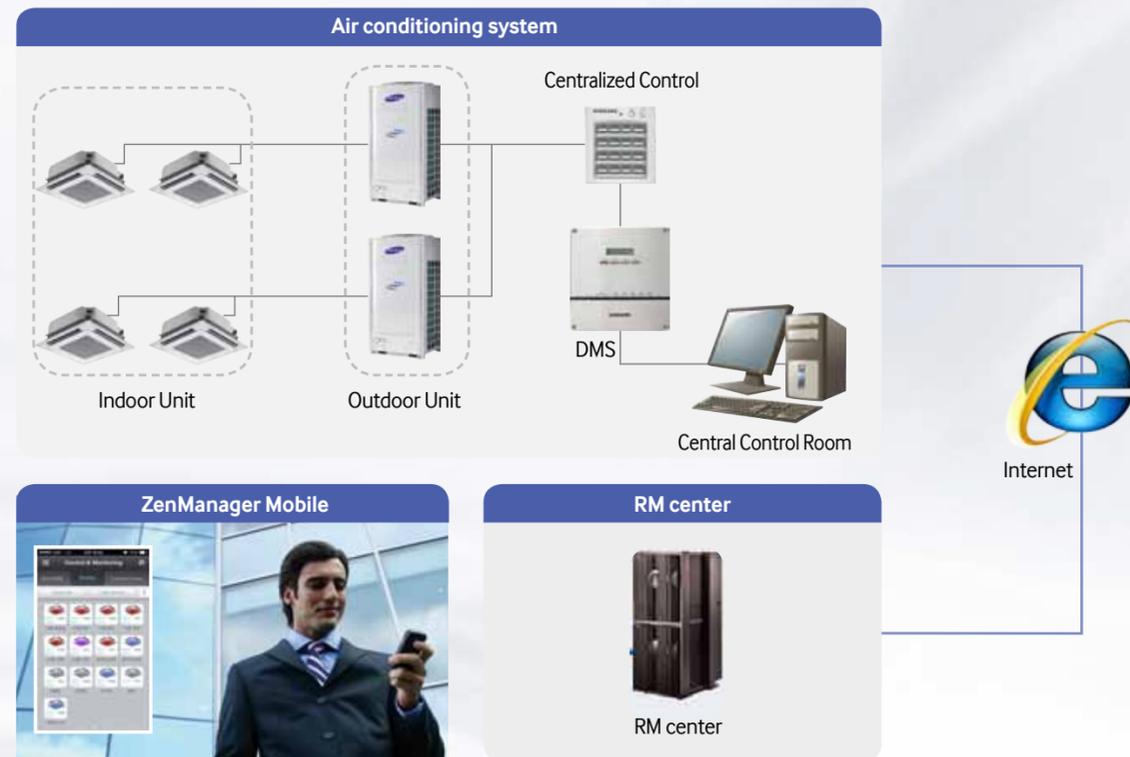


ZenManager (RMS)

ZenManager enables seamless remote control and 24 hours monitoring via Internet. It gives reports and notification for air conditioning unit operation status to you.

MST-R5D (ZenManager)

- Real-time & Seamless : Remote Monitoring and Control Via Internet
- Group Management : Manage Multiple Site Group
- Analysis Uptime and Power Usage of Air Conditioning Unit
- Report for Usage Trend, Ranking and Usage Comparison of Multiple Sites
- Mobile App : Galaxy S1, S2, S2 HD, S3, Note
- Fault Detection and Mobile App Notification
- Cycle Data Backup and Check Cause Failure



Internet Based Smart Management

Group Management

- Multiple site can be managed at one place
- Usage comparison of multiple sites



Remote Fault detection

- Remote fault detection and check reason
- Service notification



Report

- Weekly and monthly report for usage trend



User Friendly widget

- Chart and List Widget
- Indoor Widget



Mobile App

- Monitoring and control
- Fault detection



Data Analysis

- Uptime and power usage
- Cycle data backup



Guestroom Management Module

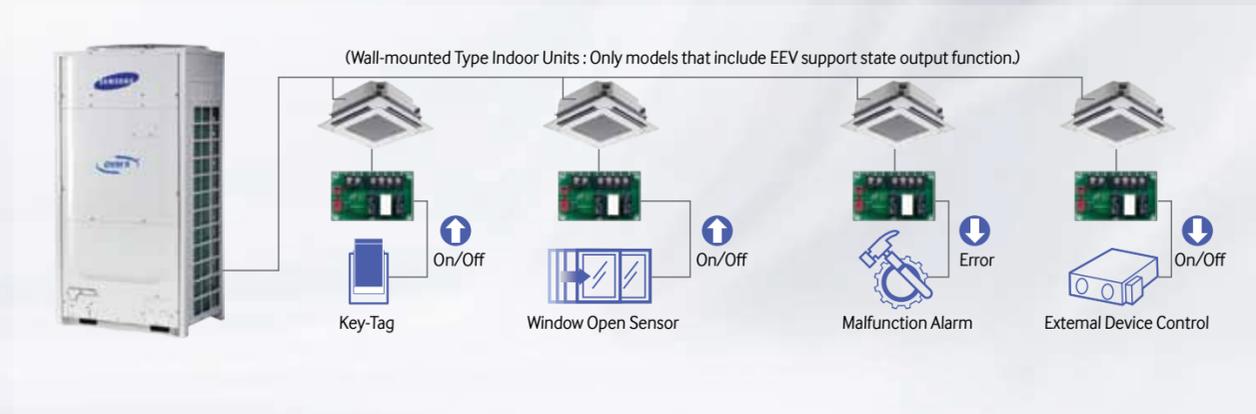
Guest Room Management system saves you energy and money on cooling an unoccupied room: the air-conditioner is activated when Key-Tag is in place and turns off when Key-Tag is removed.

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



NEW DVM-Pro

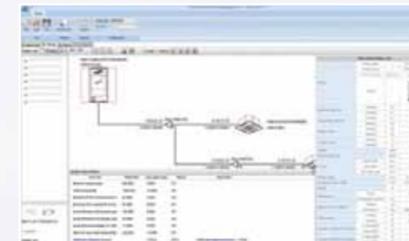
New DVM-Pro is an advanced design automation tool that can be used in AutoCAD-based CAD mode or Windows-based Sales mode. This new program helps you in selecting system air conditioner equipment so that you can easily and precisely design your air conditioning system.

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!

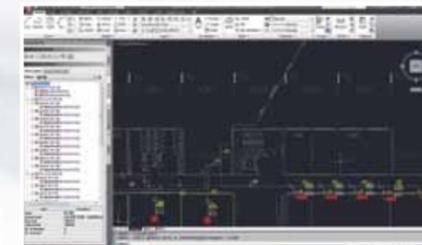
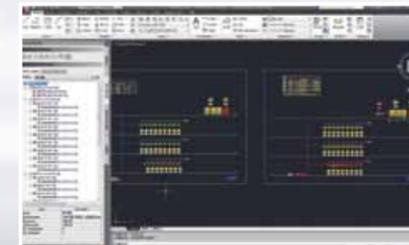
www.dvmsystem.com Download Center Software NEW DVM-Pro



* 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!

AHU Kit

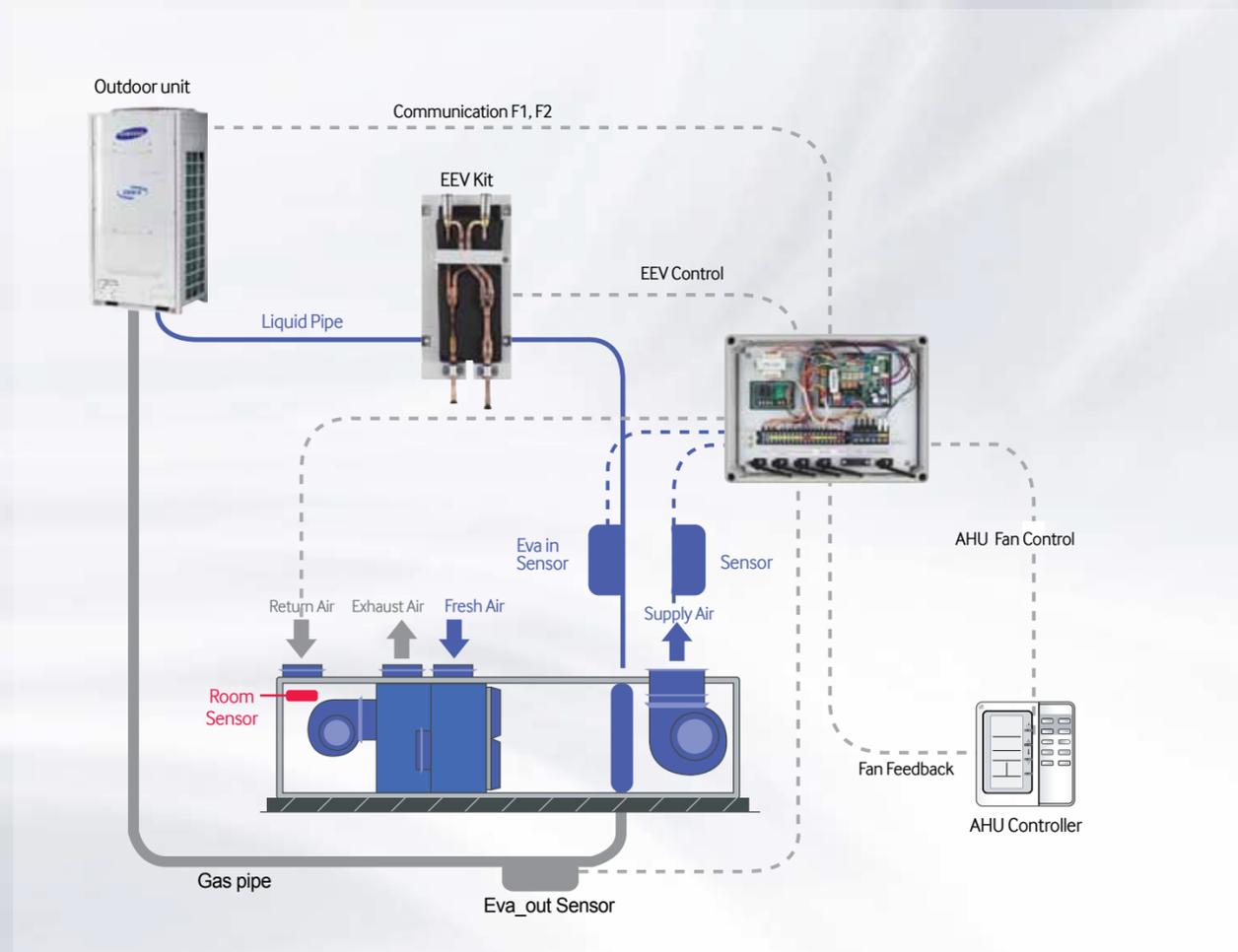
AHU kit allows DVM S outdoor units to connect to AHU (Air Handling Units), which results in energy savings and improvement in performance and efficiency.

Features

MXD-K025AN / K050AN / K075AN / K100AN (< 10HP)
MXD-A64K100E, MCM-D201N (10~40HP)

- IP54 is satisfied
- Variable capacity
- 2.5HP ~ 40HP
- Simple BMS can be applied
- 0~10V control
- Discharge air temperature control

Example



Eco Heating System



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.



EHS Technology

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.



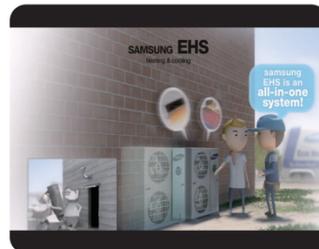
Unsustainable Resources

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



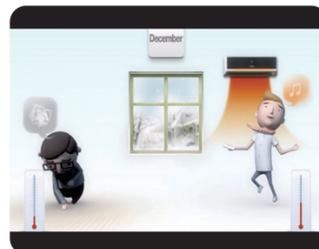
EHS System

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.



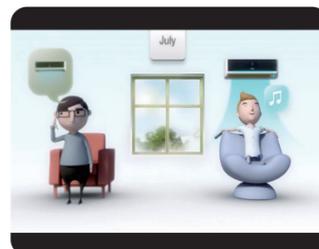
Rapid Air Heating

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

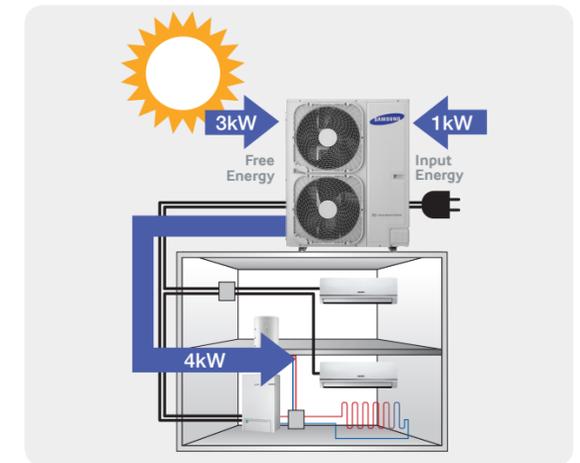
Samsung EHS, with its industry leading operating efficiencies, can reduce your operational costs by up to a third when compared to standard gas boiler systems.



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.

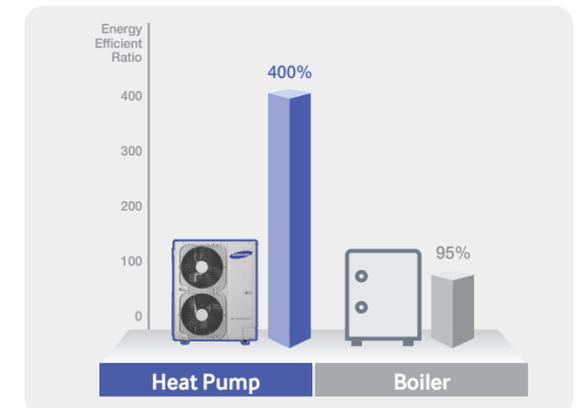
Using a heat pump system for basic heating and hot water in your home is an energy efficient and environment-friendly solution.



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.



EHS Overview

Samsung EHS is an all-in-one system with highly efficient heat pump technology that 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 your energy costs and CO2 emissions, but also provides various combinations of air and water solutions for heating and cooling that meet different user needs during all four seasons.

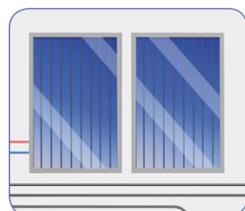
Outdoor Unit

Extracts heat from the outside air and raises inside temperature to a level high enough to supply heating during winter, or emits the heat inside to outside during summer.



Solar Panel (Field Supply)

Supplies about 70% of required energy to provide domestic hot water by using the 100% environment-friendly solar thermal energy.



EEV Kit

Electronic Expansion Valve Kit controls liquid refrigerant flow.



Hydro Unit

Provides heated water.



Domestic Hot Water Tank (Option)

Supplies domestic hot water.



Under Floor Heating & Radiator (Field Supply)

Water warmed up in hydro unit circulates through the underfloor and radiators then makes your home pleasant and comfortable.



Indoor Unit

Supplies air heating or cooling.



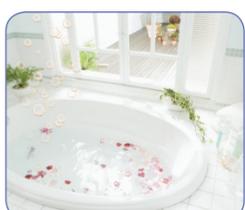
Room Thermostat (Field Supply)

Auto-adjusts to the desired room temperature.



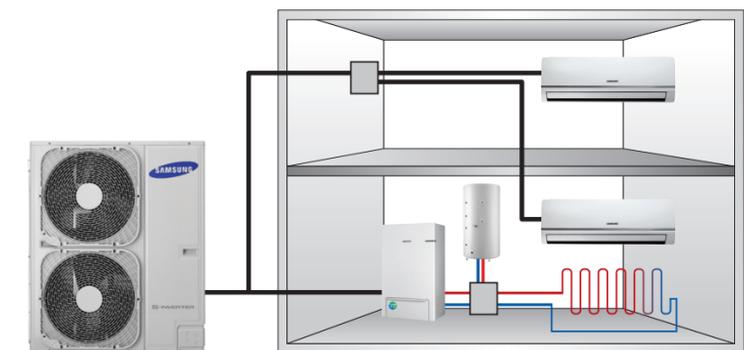
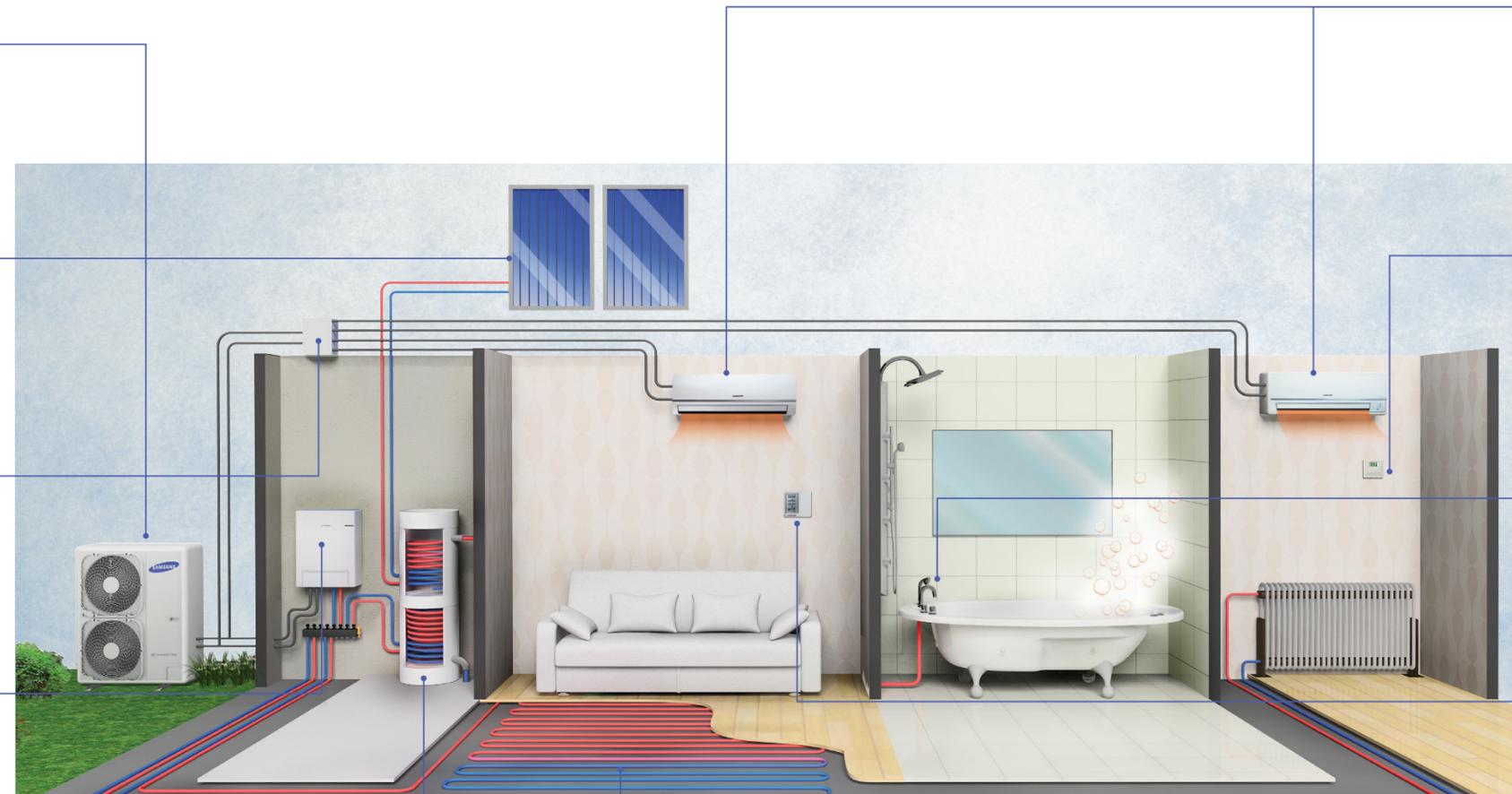
Sanitary Warm Water (Field Supply)

Delightfully warm and safe water at all times.



System controller (Option)

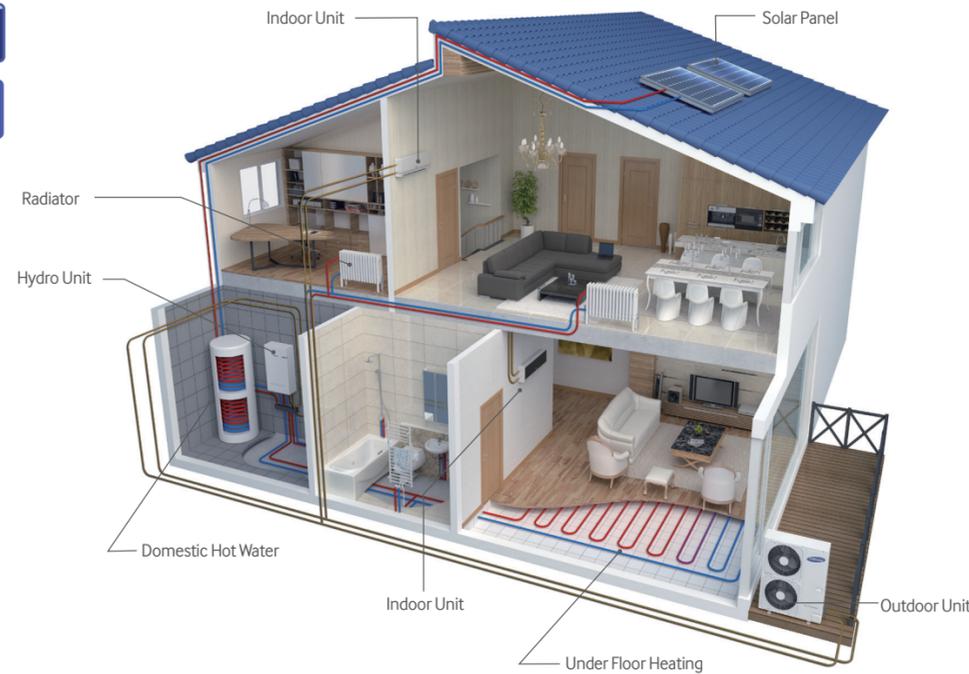
Adjusts various options and displays the operating status.



EHS TDM

A perfect climate control solution for your home all seasons long.

EHS TDM support both air-to-air and air-to-water heating (and cooling) to be the ultimate indoor climate solution for all seasons long.



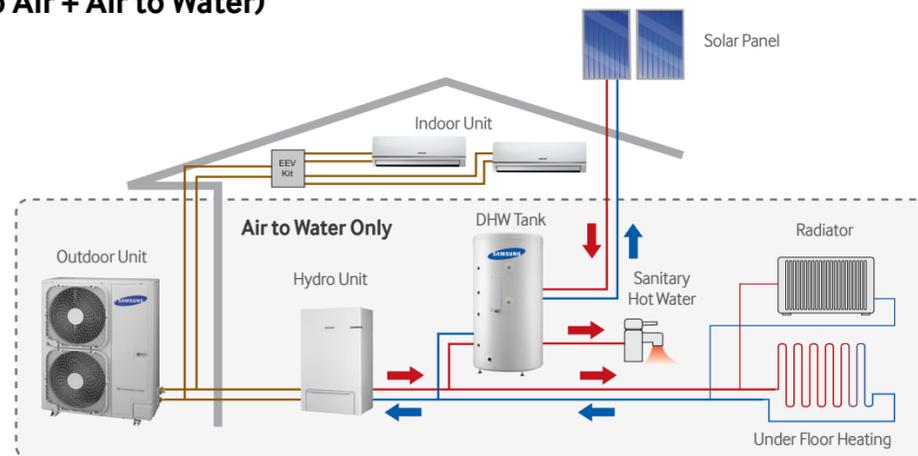
Overview of EHS TDM (Air to Air + Air to Water)

Air to Air + Air to Water

- A2W+A2A Space heating and sanitary hot water
- A2W+A2A Space cooling (by reversing heating cycle)
- Consist of Outdoor unit, hydro unit, DHW tank (optional) and indoor units (Wall mounted and slim duct type)
- Compatible with 2 hybrid energy sources (field supply): Solar panel/ Back-up boiler

Air to Water Only

- A2W Space heating and sanitary hot water
- A2W Space cooling (by reversing heating cycle)
- Consist of Outdoor unit, hydro unit, DHW tank (optional)
- Compatible with 2 hybrid energy sources (field supply): Solar panel/ Back-up boiler



Features

Integrated Heating & Cooling System at a Lower Cost

Both water and air are heated and cooled by single outdoor unit.

Air-to-Air

Bringing comfort to your home whilst rapidly achieving a stable temperature. It can also be used for cooling in the summer and heating in the winter.



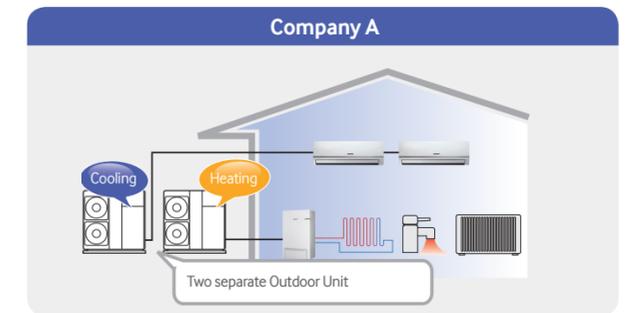
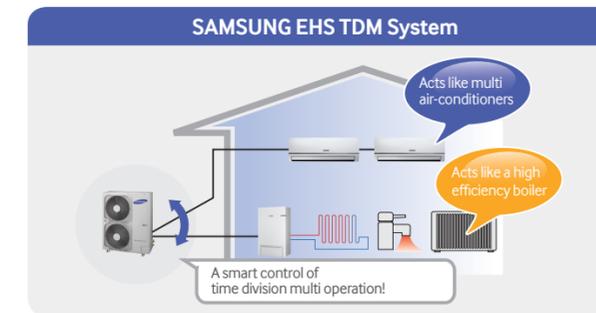
Air-to-Water

Bringing comfort to your home with a cost effective and efficient system where energy from the outside air is used to heat your radiator, under floor and sanitary water supply.



Perfect all-in-one system

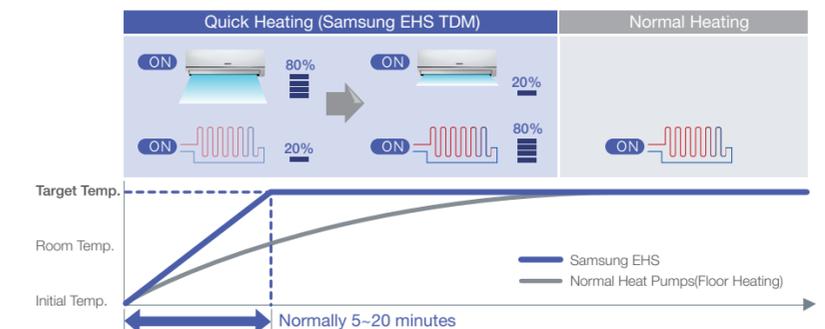
One outdoor unit is all you need to install. A smart control of Time Division Multi (TDM) operation between air-to-water and air-to-air enables one outdoor unit to operate for both functionalities, resulting in lower product cost and space saving.



Quick heating by TDM technology

Double up the heating source to feel the warmth faster

Floor heating is well known as the optimal heating option for indoor thermal comfort. However, it takes 4~8 hours to heat up the room after it is turned on. Samsung EHS TDM technology quickens that process by blowing hot air along with floor heating to warm up the room.



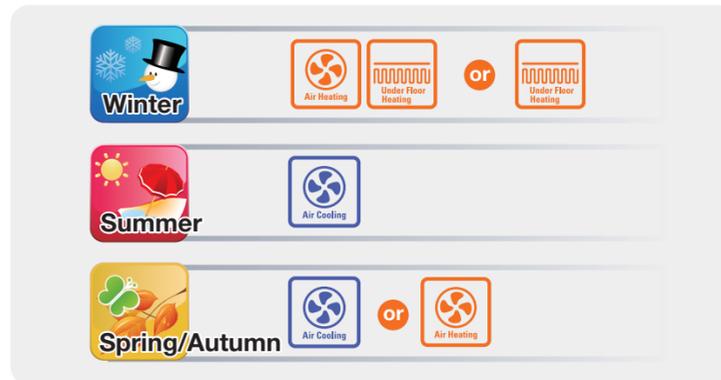
EHS TDM

Simpler units, installation and usage for maximum convenience!

Typical Seasonal Usage

Ultimate air solution for all 4 seasons

Different heating solution is needed for each season with different climate. Samsung EHS can be used all year long, no matter whether it's hot or cold because single outdoor unit can be used for both air-to-water or air-to-air functions for cooling and heating.



Flexibility

Wide compatibility that allows easier control

Samsung EHS can be implemented with other optional products: Domestic hot water tank, thermostat, pump, solar panel or back-up boiler, which makes it more versatile than ever.



Indoor units

Home owner may select the indoor unit between wall-mount and concealed duct according to their taste for interior.



Neo Forte

Neo Forte's clean and refined panel design with a unique silver accent adds a touch of class to your space.



Slim Duct

Concealed behind ceilings, Slim Duct enhances the luxurious ambience of your space while providing fresh and powerful cool air.

Features

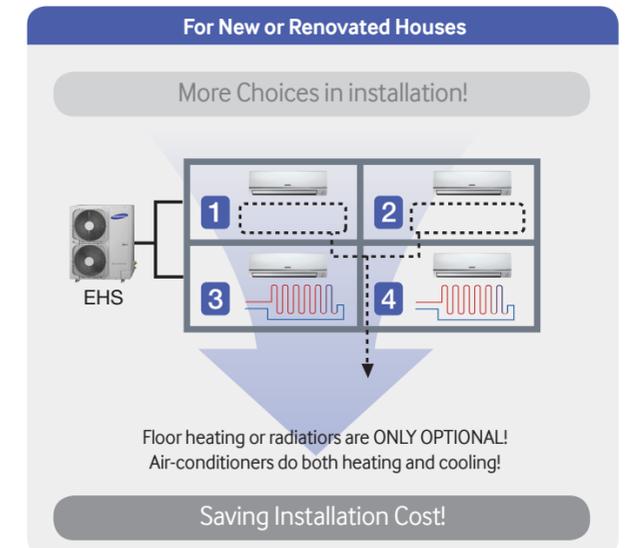
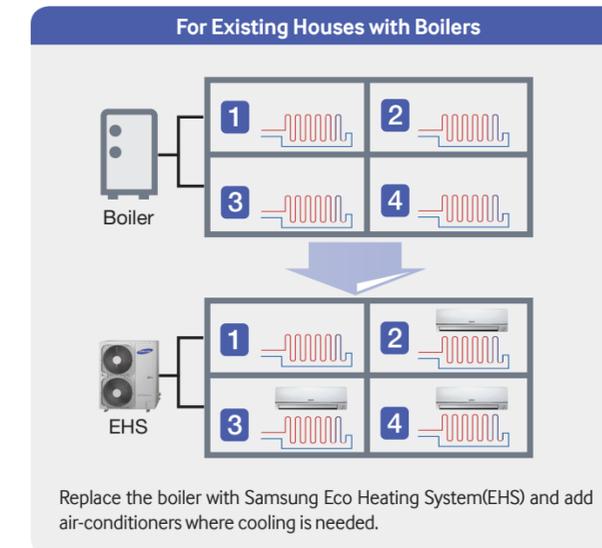
Diverse installations

Installation for more savings and comfort

Samsung EHS supports diverse installation options. Home owners looking for economical heating system for both new and renovating house may find Samsung EHS attractive since it can replace the existing boiler and provide many installation options to meet their budget.



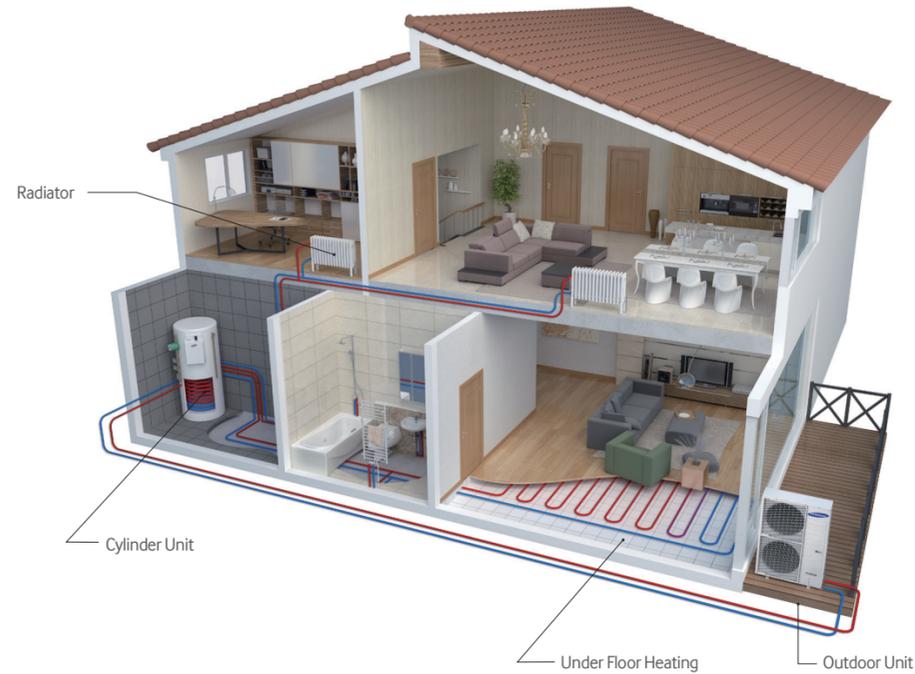
- Bed Room / Study
- 1 2 3
- Living Room / Kitchen
- 4



EHS Mono

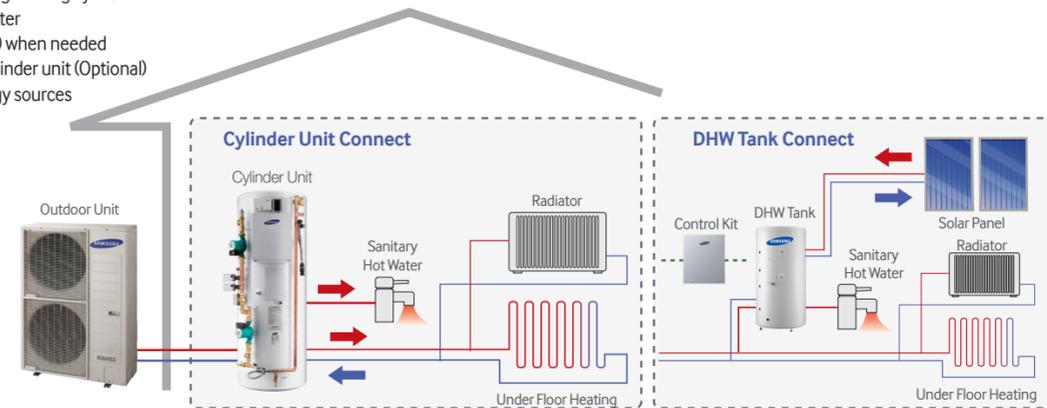
Simpler units, installation and usage for maximum convenience!

EHS Mono uses outdoor unit that includes the hydronic parts. Therefore it does not require space or installation process for hydro units and the refrigerant pipes.



Overview of EHS Mono (Air to Water)

- A2W Space heating and sanitary hot water
- A2W Space cooling (by reversing heating cycle)
- Cools water and supply cold water (by reversing the heating cycle) when needed
- Consist of Outdoor unit and Cylinder unit (Optional)
- Compatible with 2 hybrid energy sources (field supply) : Solar panel/ Back-up boiler



Features

High Performance at Low Temperature

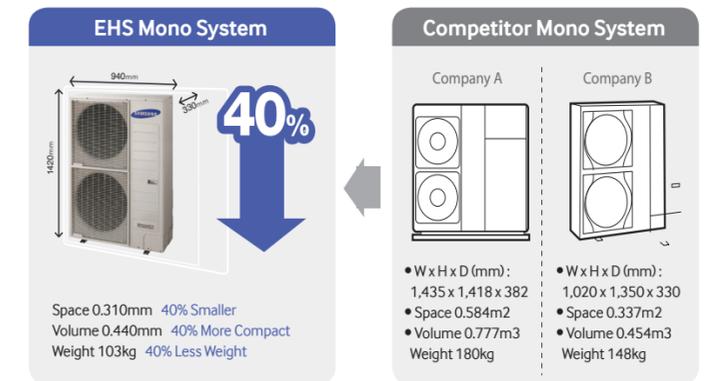
Samsung EHS is made up of an inverter compressor optimally operated according to the outdoor temperature, offering heating capacity of 90% at -10°C and reliable antifreezing protection at -20°C.



Compact and light outdoor units

Smaller outdoor units for quick and easy installation

Compact and light outdoor unit units will comparably save installation labor and cost, which will be a great satisfaction to both installer and customers.

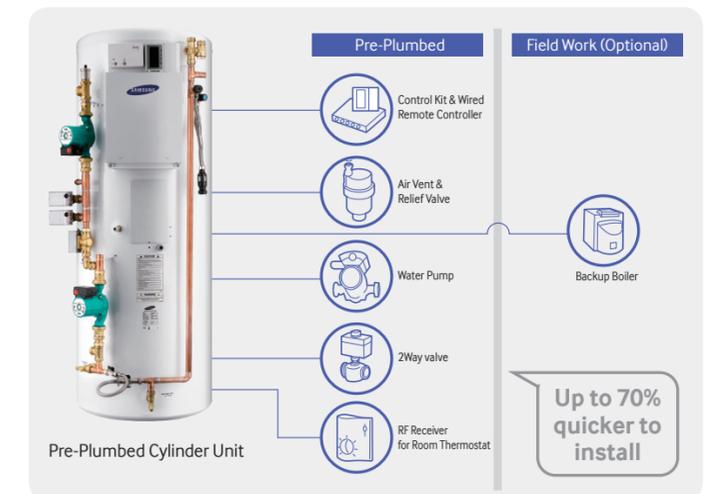


Pre-plumbed cylinder unit

No more time spending on assembling little parts

Samsung Cylinder Unit enables quick and easy installation since most components are assembled in the factory. The Pre-plumbed Cylinder Unit provides a flexible, quick and easy solution.

Cylinder Unit = Water Tank + Control Kit + Water Pump + 2way valves + Air-vent + Relief valve + RF Receiver + Wireless Thermostat + Wired Remote Controller

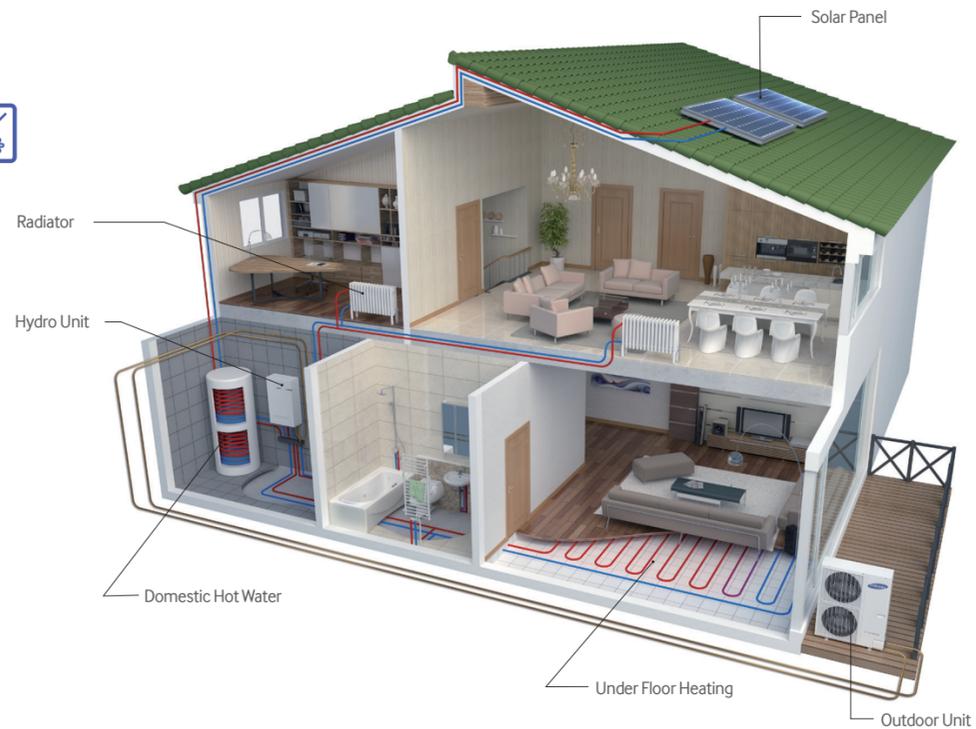


EHS Split

All new EHS Split to satisfy up to date demands.

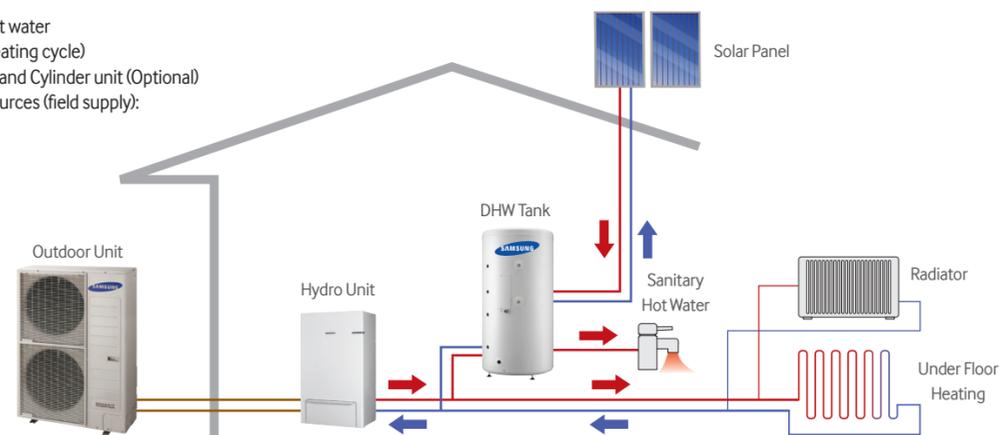
Features

EHS Split is the newest development added to the line-up to meet the up-to-date demands. This air-to-water heating system is designed and built especially for optimized heating.



Overview of EHS Split (Air to Water)

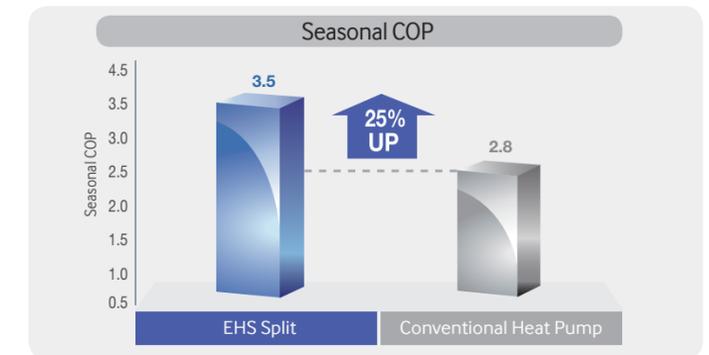
- A2W Space heating and sanitary hot water
- A2W Space cooling (by reversing heating cycle)
- Consist of Outdoor unit, Hydro unit and Cylinder unit (Optional)
- Compatible with 2 hybrid energy sources (field supply): Solar panel/Back-up boiler



Optimized Seasonal Efficiency

Consistently providing efficient performance all seasons long

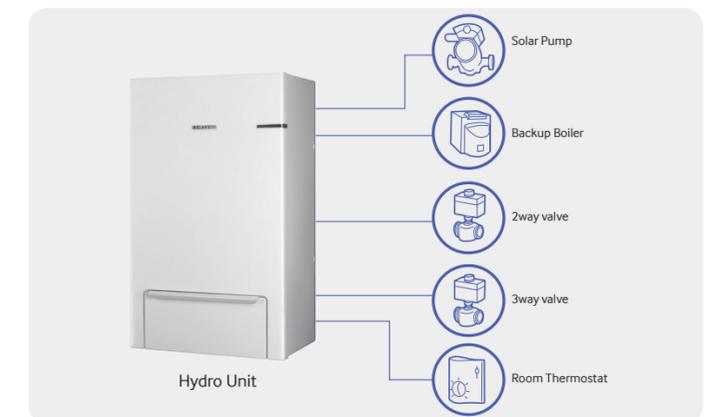
- Optimizes heating performances at the actual operating temperature, -2°C to 2°C.
- Provides an outstanding SCOP in compliance with Eco-Design directives. (based on SAMSUNG own test result according to VDI4650 standard)



Flexibility

Wide compatibility that allows easier control

Samsung EHS can be implemented with other optional products: Domestic hot water tank, thermostat, pump, solar panel or back-up boiler, which makes it more versatile than ever.



Flexibility

Subtle improvements that brings notable difference

Since Samsung EHS system is designed to meet the up to date demands, we have added improvements that may be seem subtle but which adds up to bring notable difference.



EHS Line up

Various solutions for different needs

2014 Samsung EHS lineup

| Type | Outdoor unit | | | | | | | | | | | Hydro unit | | Domestic Hot Water Tank Unit | | | | Cylinder Unit | | Control Kit | Indoor unit | | | | | | | | Key features |
|---|------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|------------|--------|------------------------------|------|-------|------|---------------|------|-------------|-------------|-------|-------|-------|-------|-------|-------|------|---|
| | Power/Capacity | 5.2kW | 6.0kW | 7.0kW | 8.0kW | 9.0kW | 10.0kW | 11.0kW | 12.0kW | 14.0kW | 16.0kW | 8.0kW | 16.0kW | Standard | | Solar | | Standard | | | Model | 2.2kW | 2.8kW | 3.6kW | 4.5kW | 5.6kW | 7.1kW | 10kW | |
| | | | | | | | | | | | | | | 200L | 300L | 200L | 300L | 200L | 300L | | | | | | | | | | |
|  EHS Mono | 1P 220-240V 50Hz | | | | | ● | | | ● | ● | ● | | | | ● | ● | ● | ● | ● | | | | | | | | | | <ul style="list-style-type: none"> • Easy installation • Compact and light outdoor unit • Pre-plumbed cylinder unit |
| | 3P 380-415V 50Hz | | | | | | | | ● | ● | ● | | | | | | | | | | | | | | | | | | |
|  EHS Split | 1P 220-240V 50Hz | ● | | | | | ● | | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | | | | | | | | | <ul style="list-style-type: none"> • High reliability - Newly designed fan - Base plate heater (Option) • Flexibility |
| | 3P 380-415V 50Hz | | | | | | | | ● | ● | ● | | ● | | | | | | | | | | | | | | | | |
|  EHS TDM | 1P220-240V50Hz | | ● | ● | ● | | ● | | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | Neo Forte | ● | ● | ● | | ● | ● | | <ul style="list-style-type: none"> • Integrated heating and cooling system at a lower cost • Perfect all-in-one system • Quick heating by TDM technology • Typical seasonal usage • Flexibility • Wall-mounted, Duct Type Indoor units • Diverse installations |
| | | | | | | | | | | | | | | | | | | | | | Slim Duct | ● | ● | ● | ● | ● | | | |