Learn more about Samsung air conditioner at:

www.samsung.com/global/business/system-air-conditioner

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









It's All Taken Care Of

Just because the world economy is complicated, doesn't mean firms have to run that way. Samsung's smart technology provides a successful solution for a carefree business environment. Enjoy instant coolness, user-friendly installation, advanced control, and smart and efficient use of energy. All taken care of, so business can move forward.

Samsung. Moving forward 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





Preservation for future generation.

Thinking of people and the environment, Samsung has been developing products/solutions that are eco-friendly without sacrificing the performance. Realizing the hopes for a greener, healthier life for people and the generations that follow, Samsung's environment-friendly technologies work to make the world a safer and more liveable place.

Samsung Eco-friendly Air Conditioner

Making continuous efforts to stay eco-friendly, Samsung air conditioners use R-410A, an environment-friendly refrigerant to help rid the air of pollutants and restrain the use of materials with high global warming potential(GWP). These energy-efficient air conditioners not only save you money, but help conserve the environment.

Air & Water Conservation

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

Use Less, Save More

Samsung washers use less power with ceramic heaters, and ultimately save energy consumption and total operation costs. 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.

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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.

Co +

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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



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.

2013 SAMSUNG System Air Conditioner



Outdoor unit

DVM System FJM System CAC System

Indoor unit

03

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

ERV system

ERV Plus ERV

Introduction

Brand Value ECO-Friendly Award Our Portfolio

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06

Control system

Integrated Management System Controller Building Management Applications



Global Operation of Samsung System Air Conditioner

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











ect Office building





















ation_**Turkey**

Princess Resort











Outdoor Unit

Experience the Power





small commercial places.

efficiency.



DVM System For Large Buildings

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





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



CAC System For Individual **Commercial Places**

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



VRF 9000 Smart Efficiency for Large Buildings

Samsung VRF 9000 is a highly innovative system that adopts the new 3rd generation SSC(Samsung Scroll Compressor) technology. With its Dual Smart Inverter, VRF 9000 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.



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.





1st generation (Variable + Fixed units)

2nd generation (Variable + Fixed compressors)

Dual Smart Inverter

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

Innovative Technology

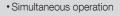
Samsung is dedicated to supporting comfortable living based on the strength of its technologies. Rely on Samsung air conditioners not only to provide convenience but also to enrich your life.



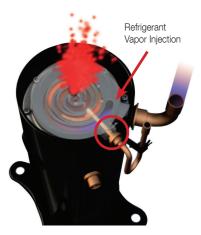
Dual Smart Inverter



Inverter A + Inverter B

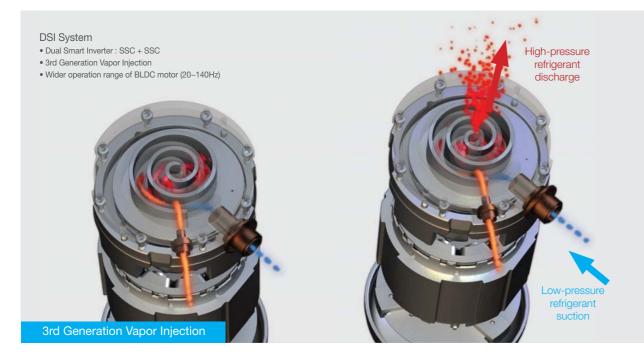


- Balanced oil distribution
- Quick cooling & heating
- Higher efficiency



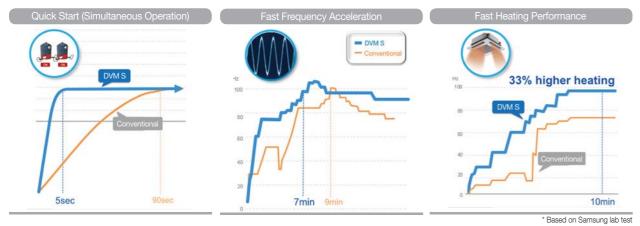
DSI(Dual Smart Inverter) System

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



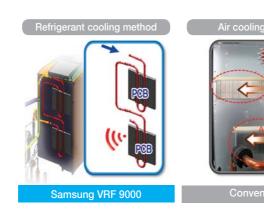
Quick Cooling & Heating

With compressor speed acceleration and simultaneous starting, Samsung VRF 9000 provides quick cooling and heating performance.



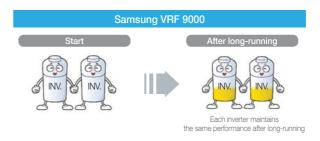
Refrigerant Cooling System

Using refrigerant cooling system, Samsung VRF 9000 ensures better stability than conventional air cooling system.

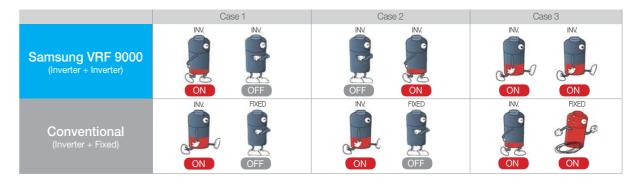


Enhanced Compressor Durability

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 VRF 9000's Dual Smart Inverter system, each compressor operates in unison with the other so the overall compressor durability is preserved for a longer time.

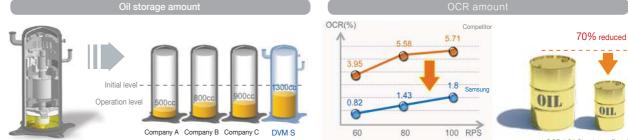


Thanks to fine capacity control, the DSI (Dual Smart Inverter) responds to subtle indoor load changes, which allows you to save energy cost.



Large Oil Storage Capacity

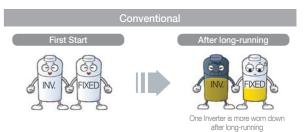
With large oil storage and low OCR, VRF 9000 can secure reliability even in case of installation with long piping and high elevation.



Auto Oil Balancing

Samsung VRF 9000 ensures stable and equal oil balancing without requiring an extra oil balancing pipe.





* OCR (Oil Circulation Ratio)



High Efficiency

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

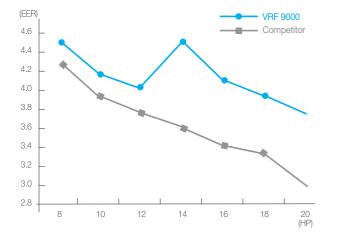
Top Class Energy Efficiency

Samsung VRF 9000 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.



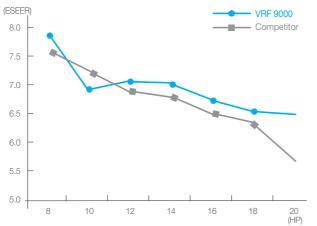
EER (Energy Efficiency Ratio)

Samsung VRF 9000 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)

VRF 9000's ESEER also surpasses competitor's ESEER at all range. On average, it has 4% higher rate than competitor.

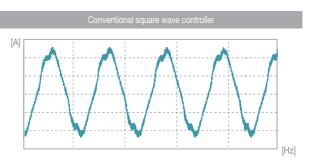


PHE (Plate Heat Exchanger)

Plate Heat Exchanger type intercooler is adopted on Samsung VRF 9000 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.

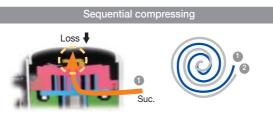
Adaptive Sine Wave Control

Adaptive sine wave control can reduce THP (Total Harmonic Distortion). Therefore VRF 9000 doesn't need to use shield wiring for communication.



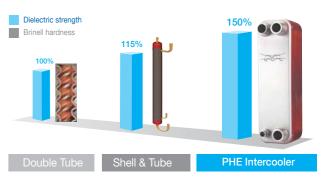
Asymmetric Scroll Design

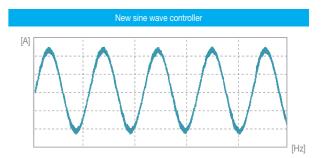
Applying fluid dynamic design, VRF 9000 minimizes compression loss during the compression of refrigerant.

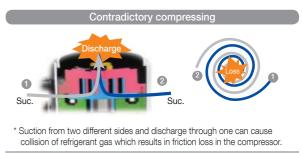


* No friction loss in the compressor, thanks to sequential suction and discharge.

Samsung VRF 900







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 Commissioning & Management (ACM)

Samsung VRF 9000 has a smart management system that facilitates self-diagnosis, auto commissioning, auto management, and mobile data transmission. Since you can control the system with smart phone or tablet PC, it provides easy and convenient management.



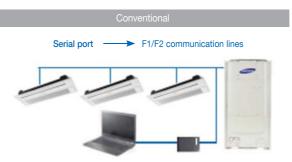
Reduced Commissioning Time

Thanks to ACM, the commissioning time for VRF 9000 has shortened considerably from 180 minutes to 50 minutes, and the testing results are automatically stored and reported.



Wifi Monitoring System

With S-Checker, VRF 9000 can be monitored by smart devices such as smart phone or tablet PC.



Self-diagnosis Mode

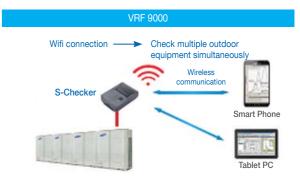
Samsung VRF 9000 monitors the operation status and displays an error code in response to any sign of abnormal operation, thus enabling you to easily solve the problem.

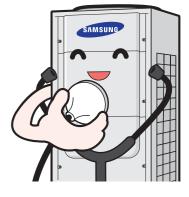
Automatic Data Backup

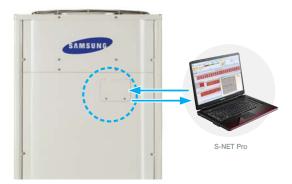
If a malfunction occurs with the VRF 9000 outdoor unit, the last 30 minutes of operation data are stored for automatic data backup.

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.

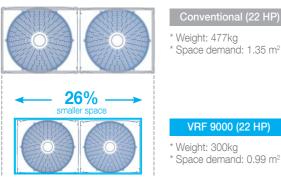
Longest Piping Length & Highest Elevation

Samsung VRF 9000 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.



Conventional (22 HP)

VRF 9000 (22 HP) Space demand: 0.99 m²

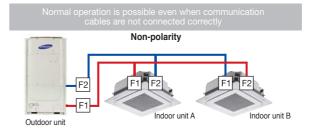
Versatile Piping Connection with Various Knock-out Holes

The knock-out holes for piping, power, and communication cables are located in a variety of directions, allowing for more convenient installation of VRF 9000 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

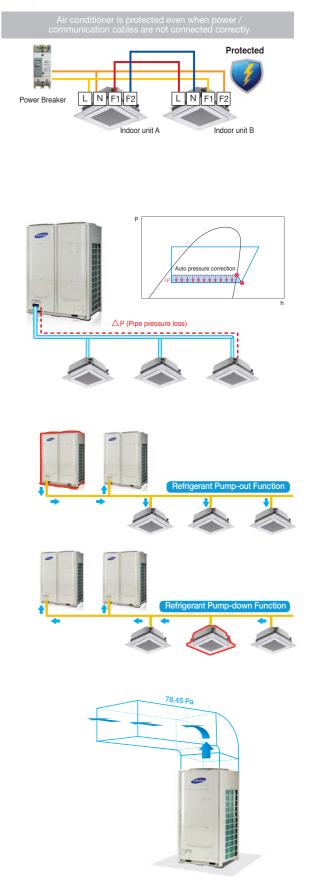
Since piping distance is far between outdoor units and indoor units, the individual indoor units perform capacity connection control and automatic refrigerant balancing to secure balanced performance between the units.

Refrigerant Pump-down & Pump-out

Samsung VRF 9000 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, VRF 9000 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.

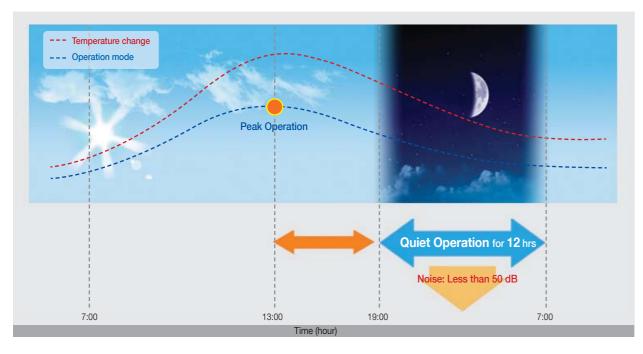
Indoor Discharge Temperature Control

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

Samsung VRF 9000 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

Samsung VRF 9000 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 Samsung VRF 9000, 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

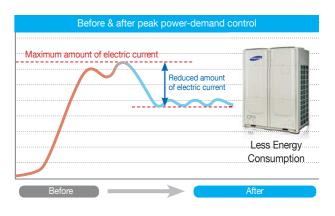
Snow that accumulates and covers the outdoor units during the winter must be removed in order for the units to operate properly. Snow prevention function removes accumulated snow, so you won't have to get rid of it by yourself. Outdoor units will blow away covered snow every 30 minutes to prevent any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

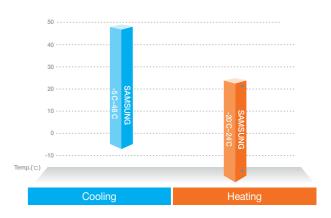
Corrosion & Frost Resistant

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.

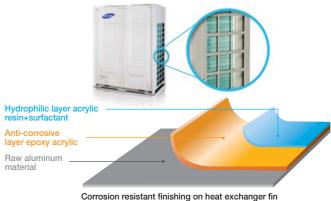
- Corrosion resistant with epoxy acrylic coating.
- Implemented corrosion resistant through acrylic+surfactant.

material









Premium Heat Recovery

Simultaneous Cooling and Heating

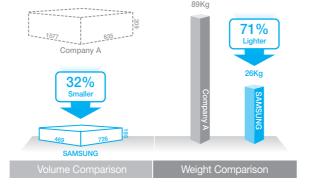
Single outdoor units can operate all the indoor units in both cooling and heating mode. They can also simultaneously operate in cooling and heating mode when it is necessary to provide more freedom for operation.



MCU Kit

Samsung VRF 9000 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

Samsung VRF 9000 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.



STEP 0 : Normal Heating Operation



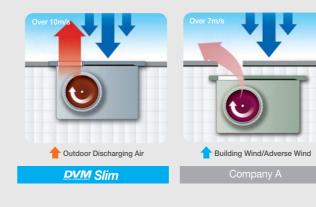


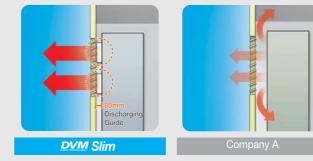




DVM Slim is easy to install and maintain, and its compact footprint size means that it doesn't need much installation space. This slim outdoor unit raises the value of your space by visually harmonizing with interiors, making it the best air conditioning system for luxury high-rise apartment buildings.

Powerful Discharge to the Front





Compact Footprint Size for Minimized Installation Space

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



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



28

Slim and Stable DVM Slim



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

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

80mm Guide Slider Assembled inside the Unit for Discharged Air

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

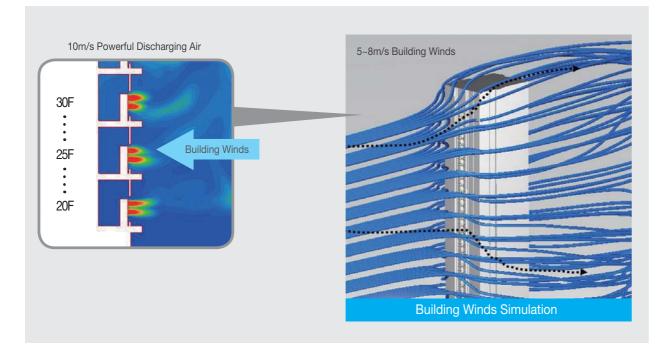
Hermetically Sealed Outdoor System for Low Noise

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



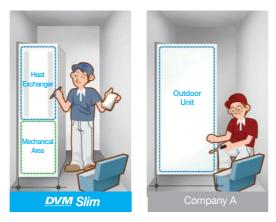
Building Winds Simulation for High-ris Building

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



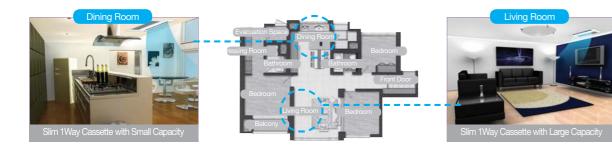
Easy Installation and Repairs

The compartmentalized mechanical area enables easier and improved serviceability.



Harmonious Design

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



Compressor Noise Reduction

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

No Electromagnetic Waves in Digital Scroll Compressor

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





Economical and Efficient

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

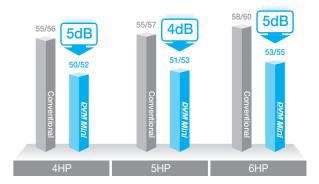
Economical & Efficient DVM





Low Noise Level

DVM Mini gives less noise compared to our conventional models.



Eco-Design Energy Efficient Comfort

Energy efficiency and energy saving are the keys to the switch to an climate-friendly energy supply system. At that point, Samsung helps prevent greenhouse gas emissions by identifying the most energy efficient air-conditioner. Especially, Samsung FJM and CAC products consume considerably less power in all seasons than other products. With these products you can conserve the environment and save energy.





• Most of the products achieve A+ grades.



• 4Way CST : A++ (Flagship/ Premium), A+ (Deluxe) • Mini 4Way CST: A++

These products also pass through the regulations in 2014

CAC SEER

FJM SEER

Conform to EU Regulation (Eco-Design)

Samsung FJM and CAC easily pass through the energy requirements that EU enforces from January 2013. Each product ahieves A grade, and some models' energy efficiency also satisfy 2014's regulation which is more strict than that of 2013.

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*)

	Division		Ja 20	
	SEER	Capacity ≤ 6kw		
Energy Efficiency	JEEN	6kw < Capacity ≤ 12kw	≥ 3.6	
	SCOP(avg.)	Capacity ≤ 12kw	≥ 3.4	
Sound	Ca	pacity ≤ 6kw	Indo	
Power	6kw < Capacity ≤ 12kw			

* MEPS (Minimum Energy Performance Standard)

Europe Eco-Friendly RoHS Technology Certification

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



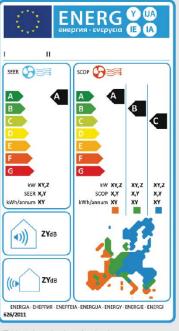
RoHS(Restriction of Hazardous Substances Directive)

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

Energy Efficient with FJM & CAC



New Energy Label



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



Free Joint Multi Universal

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.



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.

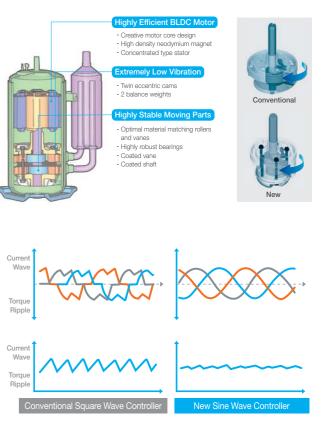
Sound Insulator for the Compressor

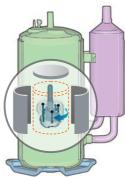
The double layered sound insulation material fully covers the compressor to absorb and minimize the noise for more quiet operation.

Easy Installation

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

Universal Free Joint Multi







CAC SINGLE Energy Saving

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.

Features

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



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	
			Jan. 2013	Jan. 2014
Energy Efficiency	SEER	Capacity ≤ 6kw	≥ 3.60(D)	\geq 4.60(B)
		6 kw < Capacity ≤ 12 kw		\geq 4.30(C)
	SCOP(avg.)	Capacity ≤ 12kw	\geq 3.40(A)	\geq 3.80(A)
Sound Power	Capacity ≤ 6kw		Indoor: 60dB(A) ↓ outdoor: 65dB(A) ↓	
Fower	6kw < Capacity ≤ 12kw		Indoor: 65dB(A) ↓ outdoor: 70dB(A) ↓	

* MEPS (Minimum Energy Performance Standard)



• 4Way CST : A++ (Flagship/ Premium), A+ (Deluxe) • Mini 4Way CST: A++

the regulations in 2014

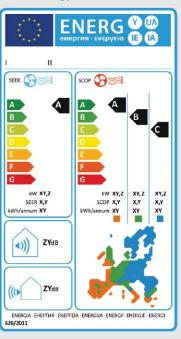
* These products also pass through

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.

Energy Saving CAC SINGLE

New Energy Label



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



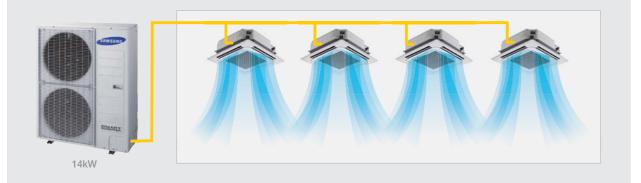
*10kW Deluxe Model

Simultaneous On/off Fuction

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

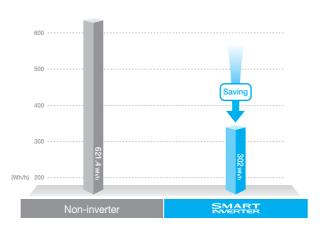
The pipe direction of our outdoor units can be freely selected as required. The internal pipe connection ports allow 4 different available pipe directions, meaning that the unit looks neater and organized once the pipe installation is done.

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.

Save up to 50% in Energy Costs

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



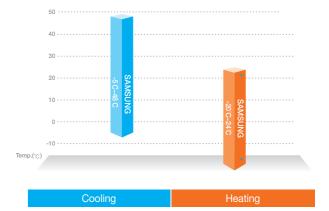
SMART

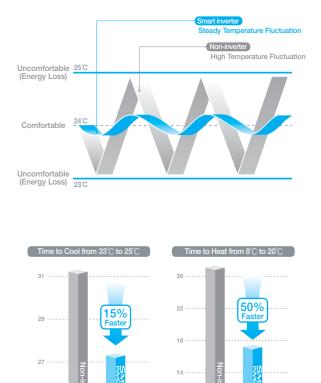
Wide Temperature Performance

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

Comfortable Temperature

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





27' 21"

oor units

Indoor Unit

Cassette Type | Icon Description

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.

Cassette Type

Duct Type

to offer optimized comfort and options.

Wall-Mounted Type

Offered in a variety of patterns, Duct type indoor units visually With their stylish and sophisticated Samsung console and ceiling Samsung cassette type indoor blend well into ceilings, enhancing designs, Samsung wall-mounted type air conditioners create a big units give the finishing touch to the beauty of your interior space type air conditioners offer cool, improvement in air conditioning your interior design. We also use with their compact and slim size clean, and healthy freshness in quality by using an indoor unit the most advanced technologies that gives you flexible installation everyday living that also optimizes both on the floor and ceiling your comfort.

to allow more efficient and

Console & Ceiling Type

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



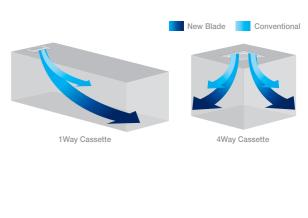
Fresh air can enter through the cassette unit so that you can enjoy even fresher air in your room.

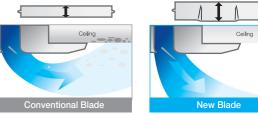
Sub Duct

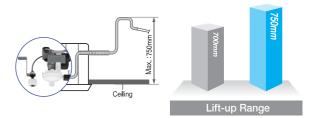


Sub Duct enables you to use the same air conditioner unit to cool an additional smaller space nearby. (A cassette unit is fitted with a knockout component to accommodate for this.)

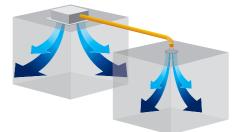












4Way Cassette S Smart and Stylish

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.

Features







Smart and Stylish 4 Way 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

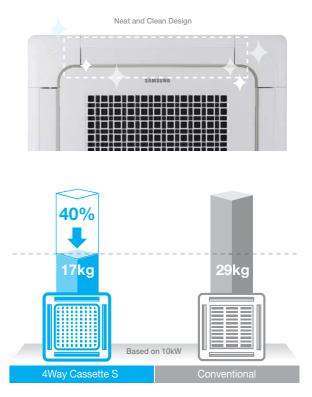
4Way Cassette S uses a new neat and clean design. The completely hermetic blade structure keeps the indoor unit clean since it prevents dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight once the blade is shut, thus improving the unit's appearance.

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.







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.

1 Silent Operation

Virus Doctot device generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen (OH- radical) in the air by turning them into harmless H_2O .

2 Uniform Distribution

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



Turns into Harmless H₂O

Active Hydrogen(H)

Virus & Active Hydrogen

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.

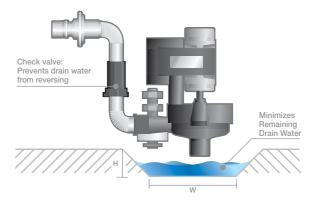






Easy Leveling

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.





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.



00

MR-DH00



⊠5.2~10.0kW Units

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.



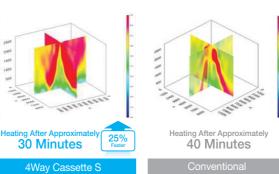
Easy Blade Cleaning

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.



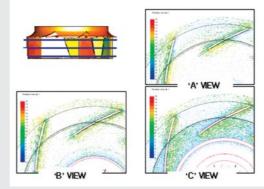
Turbo Fan

1 Silent Operation

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

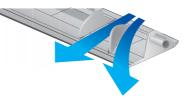
2 Uniform Distribution

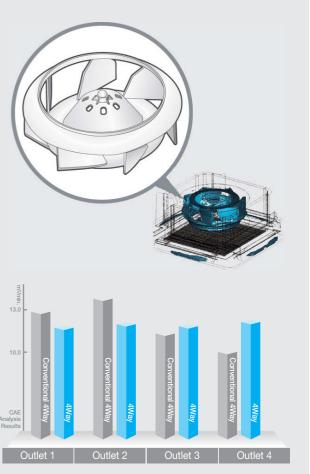
Turbo Fan with wide blades provides extreme cooling and heating power from 4 separate outlets so the entire room cools down or warms up faster. This unit can extend comfort to every nook and cranny.

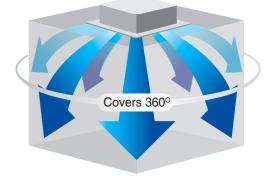


Surround Air Flow

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.







Mini 4Way Cassette S Enhanced and Powerful

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







Enhanced & Poweful Mini 4Way Cassette S

Ideal Compact Size

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



Stylish and Aesthetic Panel

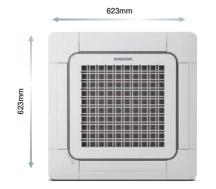
Mini 4Way Cassette S supports a unique and stylish panel with a simple rounded corner design. Besides Its display design with rounded corners adds a neat and tidy feeling to your interior. This aesthetic design blends well into your interior and adds elegance to your space's ambience.

Neat and Clean Design

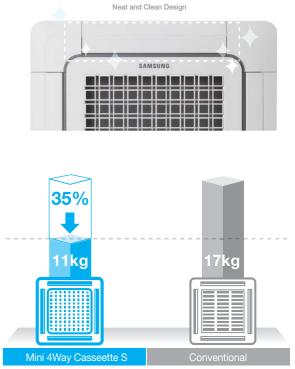
Mini 4Way Cassette S uses a new neat and clean design. The completely hermetic blade structure keeps the indoor unit clean since it prevents dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight once the blade is shut, thus improving the unit's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

Compact and Light Unit

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







*Based on 3.5kW

Virus Doctor (optional)

Healthy Air Provider

Virus Doctor 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.

1 Silent Operation

Virus Doctot device generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen (OH- radical) in the air by turning them into harmless H_2O .

2 Uniform Distribution

- Elimination of airborne virus & bacteria (Subtype H1N1)
- Complete eradiction 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.

1 Energy Saving On / Off Function

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

Power ON

2 Pleasant and Comfortable Air

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



No Overflowing Drain Water

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





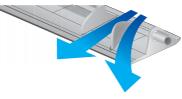
NO OVERELOV

ONE-WAY FLOW CLEAN CEILING

NO STAGNATIO

Surround Air Flow

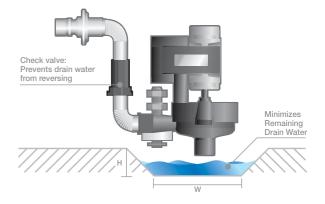
The 4-way outlet can cool every portion of your interior. The new and practical design of the blades minimizes blind spots at the corners of the panel, and can almost cover a full 360° around the indoor unit.













Slim 1Way Cassette Slim and Quiet

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.



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 space.



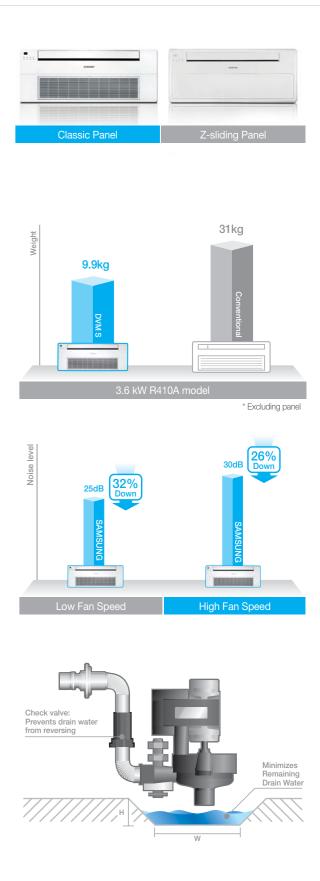




ONE-WAY ELOW

CLEAN CEILING

Slim & Quiet Slim 1Way Cassette



2Way Cassette Compact but Powerful

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.



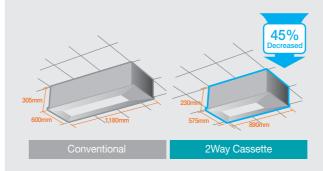
Compact but Powerful 2Way Cassette

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.



Twin Cross Flow Fan

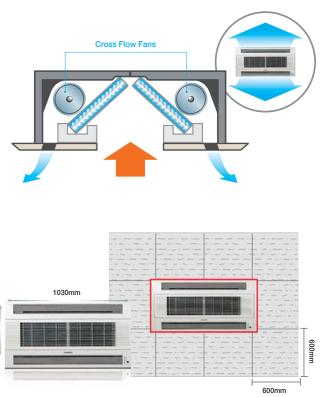
2Way Cassette type unit is a perfect fit for long and narrow rectangular spaces. The Twin Cross Flow Fan inside 2Way Cassette will spread cool or warm air even further and wider with less noise.



Standard formula for Easy Installation

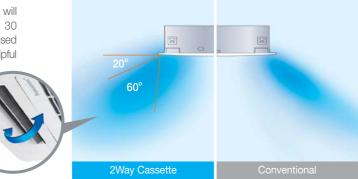
The dimensions of 2Way Cassette air conditioner allow for easy installation into standard ceiling grids (600Wx600D) in such a way that everything just falls into place.





Auto Surround Swing

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



Self-diagnosis Mode

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



Optimum Temperature Control

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



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

Duct Type | Icon Description

Pre Filter



Pre filter traps dust particles.

с.

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



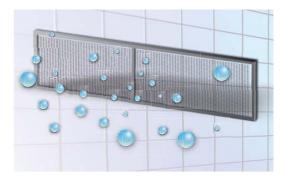
Smart Pressure Control System adjusts fan speed according to E.S.P (External Static Pressure) so the air conditioner always provides you with consistent cooling and heating power, regardless of the surrounding environment.

High Lift-up Drain Pump (Optional)

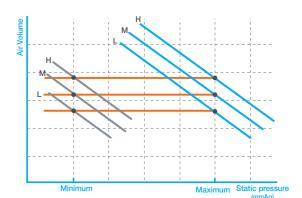


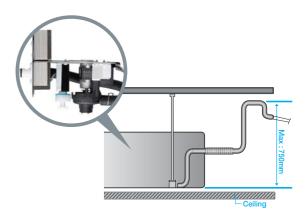
The lift-up drain pump lifts condensed water up to 750mm, compared to our competitor's limit of 700mm, allowing for flexible and convenient installation.

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









HSP Duct Powerful and Flexible

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

Pre Filter Easy Filter High



High External Static Pressare

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.

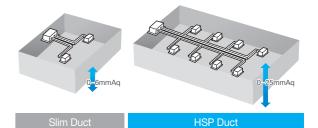
Silent Operation with the Static Pressure Control

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.









MSP Duct Silent and Strong

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.

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

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.

Narrow Width

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

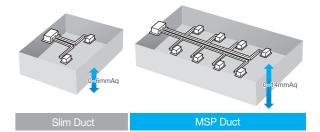
Easy to Maintain

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





Silent and Strong MSP Duct







*Measured without control box.



Slim Duct S Light and Compact

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

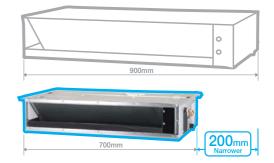
Slim Duct S has achieved a more compact and slim size with its width, which is 200mm narrower than conventional products: this enables flexible installation and maintenance in various spaces.

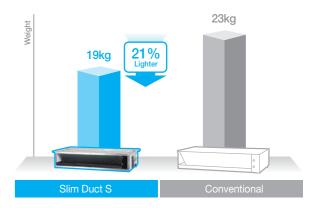
The Lightest Weight

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.









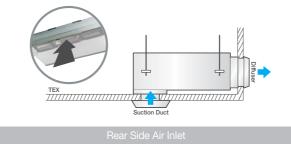
Slim Duct Slim and Flexible

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.



Flexible Installation

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



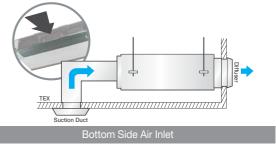
Easier Drain Pump Installation

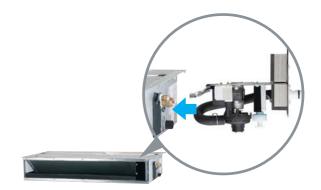
New drain pump can be installed from the side by simply removing the right side panel. You no longer need to disassemble the top cover to install, check or repair the drain pump.

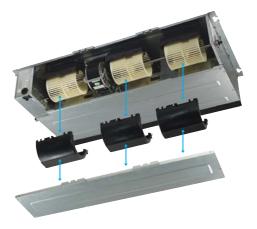
Easy to Maintain

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

Slim and Flexible Slim Duct







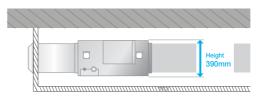
Fresh Air Intake Duct Quiet and Efficient

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.



Highly Efficient BLDC Motor

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

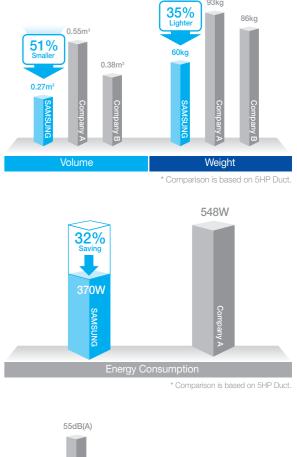
Quiet Operation

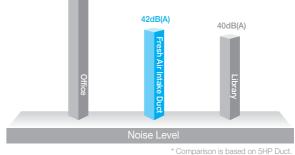
Equipped with the highly efficient BLDC motor, Fresh Air Intake Duct operates quietly with a sound level as low as 42 Decibels, slightly higher than that of a library, to provide your environment with optimum comfort.

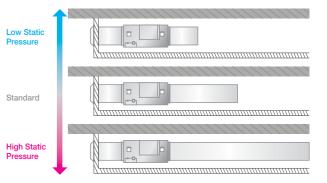
Flexible Static Pressure Control

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









Wall-mounted Type | Icon Description

Double Cleaning

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



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





3D Wind

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



Wide Twin Blade



Wide Twin Blade.



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°.



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





13m long range cooling

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

Y Series (Jungfrau) Powerful and Versatile

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

New Crystal Pure and Clean

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







"With the wifi function, you can operate your air conditioner inside and outside of your house."







Smart Saver	



"With the wifi function, you can operate your air conditioner inside and outside of your house."



P Series (Maldives) Fast and Efficient

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.

Neo Forte / Neo Forte-E Fresh and Pleasant

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





Console Slim and Elegant

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.

Features







Slim & Smart Design

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

1 Slim Design

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

2 Clean Panel

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

3 Black Display

The touch screen display maxmizes 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

Slim and Elegant Console







Ceiling Simple yet Functional

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.





S

2Way Installation

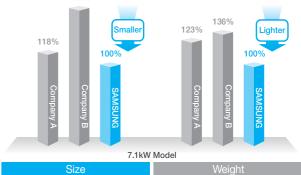
Depending on the available space and the purpose of the air conditioner, the indoor unit can be installed under the ceiling or on the floor.

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.

Slim and Elegant Console





All In One System

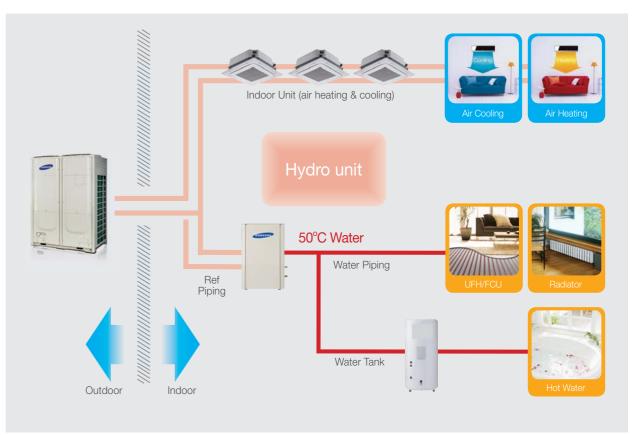
Samsung All In One system is the ultimately optimized heating and cooling solution. This operates not only air-towater mode but also in air-to-air mode. Combining these two operation modes allow you to save and money on installing the outdoor unit because single outdoor unit is all you need.

Optimized Solution for Commercial Use



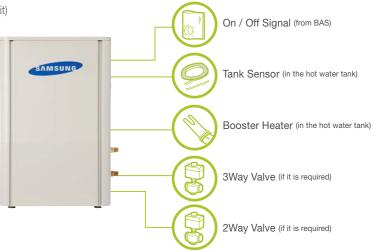
Integrated Heating & Cooling System

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 seperately, and you can ultimatetly save space, enrgy and money with All In One system.



Simple Control Scheme

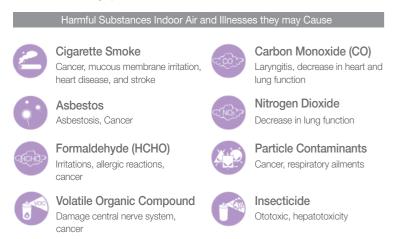
Already equipped with all related input & output terminals (No need to connect with BACnet / Lonwork Interface-kit)



ERV System Breathe in the Freshness

Necessity of Ventilation

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



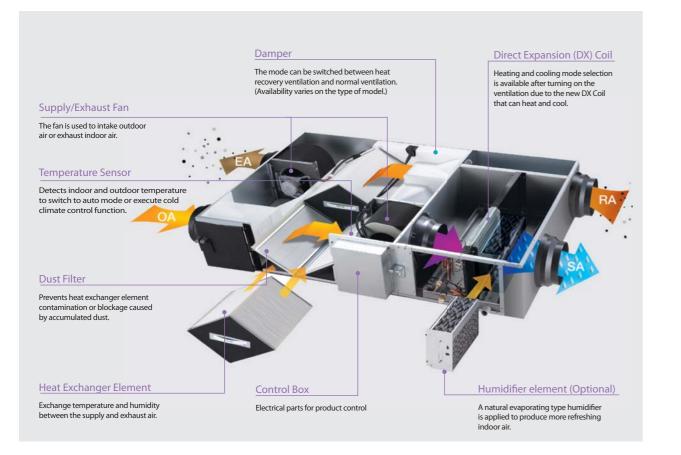
ERV/ERVPLUS Clean and Refreshing

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 of ERV / ERV PLUS





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 precondition the outdoor air that enters your indoor environment. Outdoor air will pass through the DX coil to produce fresh air without any temperature loss.



Heat Recovering Method of ERV System

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

The remaining surface of the heat exchanging area is specially processed and structured to exchange heat energy while preventing the discharged contaminants from re-entering.

Energy is recovered up to 70% (differs depending on the model) of the energy needed to cool or heat. This maintains the indoor temperature and humidity during the winter, and prevents outdoor heat and moisture from entering indoors during the summer.

02

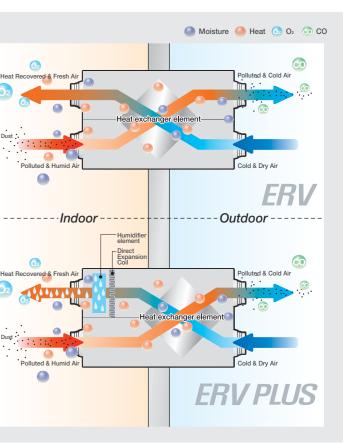
Maintain the Best Indoor Humidity Level

Humidifier Element (Optional)

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

Smart CO2 Sensor and Humidity Stat

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



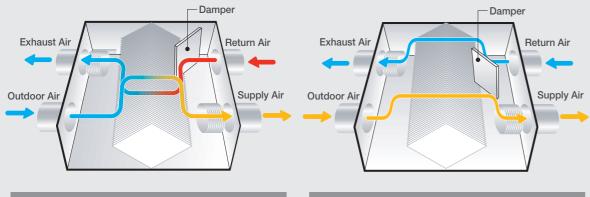




Energy Saving Operation

1 Auto Mode

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



Extreme Climates (Winter & Summer)

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



2 Energy Saving Mode

ERV, in combination with air conditioners, provides worldclass 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

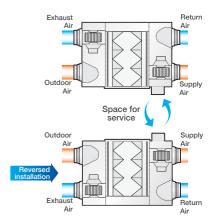
Samsung's advanced technology has enabled us to design a slim and compact-sized product. By applying a highly efficient heat exchanger element, Samsung has been able to reduce the product's height to 270mm. Compared to the units with rectangular type heat exchangers, Samsung ERV units use space more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

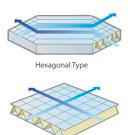
Silent Operation

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

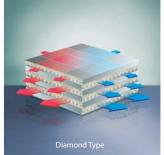
High Efficient Motor (BLDC)

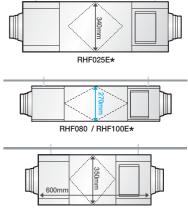
Constant air volume is provided by BLDC motor.





Rectangular Type





RHF035E* / RHF050E*

Control System

Convenient Management

Control System Structure

Integrated Management System Controller

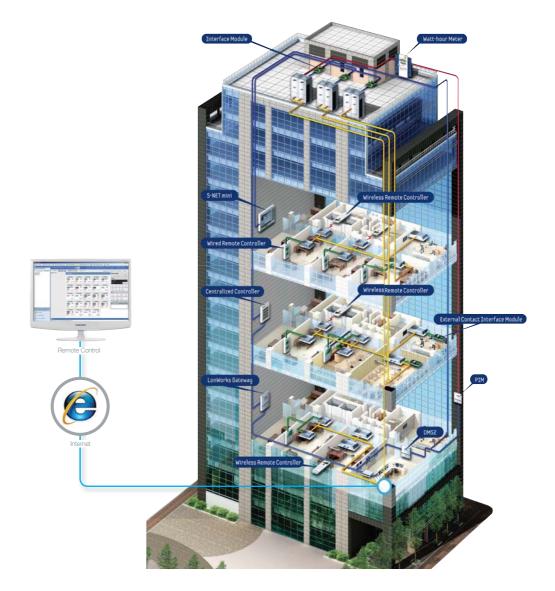
Enabling convenient and optimized Samsung's control system offers This excellent building Samsung System Air Conditioner's management, Samsung's various control options for the management system with various products are designed integrated management system indoor units. You can control convenient monitoring makes so that you can find the most is a perfect choice for managing the multiple units individually management of your air convenient and efficient air large and middle-sized buildings or simultaneously in groups to conditioning units much easier and conditioning system to perfectly with many indoor and outdoor optimize your convenience. units.

economical.

Building Management Applications

suit your needs.







S-NET 3

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



DMS 2

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



Interface Module

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







S-NET Mini

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

Centralized Controller

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



Wired R/C, Wireless R/C

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

S-NET 3 Stable and Silent

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.

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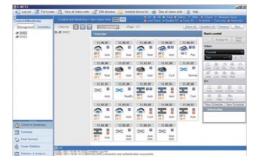
MST-P3P

- 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 upports16 DMS 2 and the second second 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



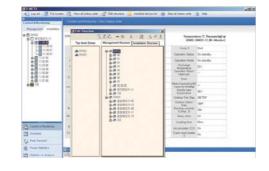
Schedule Control

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



Zone Management

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



Integrated and Complete S-NET 3

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



History Management

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

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Cycle Monitoring

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

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S-NET Mini Comprehensive and Solid

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

MST-S3W

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



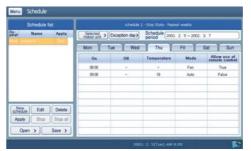
Control and Monitoring

- 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



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



Zone Management

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



Comprehensive and Solid S-NET Mini

Central Restriction Function

- Upper/Lower temperature limit setting
- Operation mode lock



Cycle Monitoring

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

CAUR D	hens	Contents
B C. C. O(Outdoor unit)	p	0.0.1
7 0.0.2	ON/OFF	ON
0.0.3	Mode	Auto mode
20.0.4	Current temperature	24°C
- 0.0.6	Set temperature	18°C
	Remote control use or not	No remote use
0.0.9	Room heat exchanger temperature	24*C
	Eva_out temperature	24°C
0.0.11	Auto heat and cool	Auto cool mode
0.0.13	Indoor unit capacity code	18
- 0. 0. 25	Congressor status	OFF
0.0.0	Indoor unit model code	1-Way

Error Management

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

ip.	Name	Date of occurrence	Current	Date resolved	Error	
00.00	CAL	2007-10-13 17-42-21	status Sched	2007-10-15 13:12:12	611	
00.00	CAN	2007-10-12 18 16:32	Solved	2007-10-13 16:23:22	631	1
00.00	CAF	2007-10-11 03:10:18	Scheed	2007-10-11 11:10-14	611	
00.00	CAJ	2007-10-11 01:44:17	Solved	2007-10-11 01:44:19	611	
00.06	Cau	2007-10-09 14:39:32	Unsolved		611	
00.05	Cau	2007-10-09 14:39:32	Unsolved	34	611	
00.04	CAUF	2007-10-09 14:39:32	Unsolved		611	
00.03	CAF	2007-10-09 14:39:32	Unsolved		611	
00.02	CBJ	2007-10-09 14:39:32	Unsolved		611	-1
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DMS 2 Advanced and Smarter

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.

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 On/Off Time Storage

• Operation history that records data for up to 6 months

Storage parameters

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

MIM-D00A*

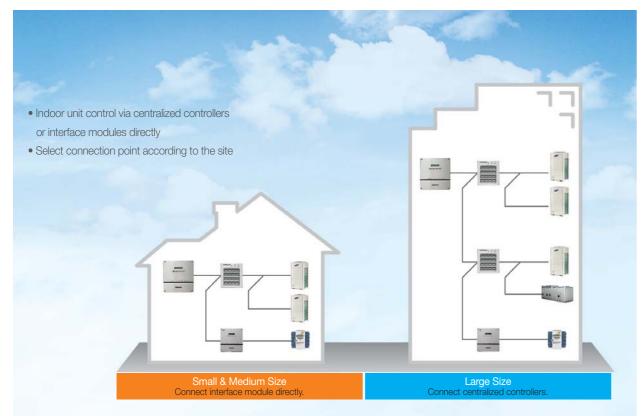
- Built-in web server for PC-independent management and remote access control
- Multiple upper-level control access (S-NET 3, S-NET Mini, Web-client)
- Central management of up to 256 indoor units including ERV, ERV PLUS and AHU
- User editable control logic
- Accessible level management
- Dynamic security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



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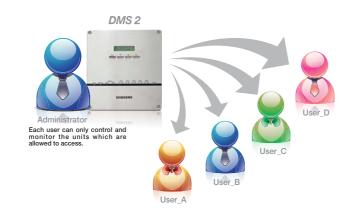


Flexible Connectivity



Accessible Level Management

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

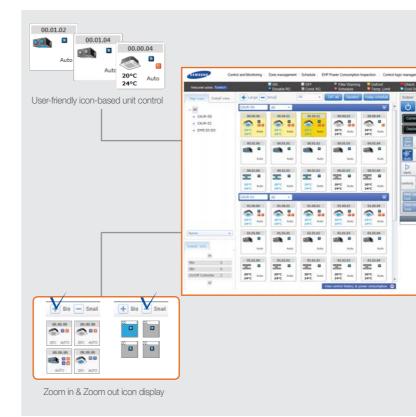


Dynamic User Security Management

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

Functions	Admin	Manager	User	
FUNCTIONS	Access All	Changeable		
Control / Monitoring	0	0	0	
Zone Management	0	0	Х	
Schedule	0	0	0	
Power Distribution	0	0	Х	
System Configuration	0	Х	Х	

Enhanced Graphical Display



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

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





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

Network

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Convenient & stylish controller





Recovery after Service



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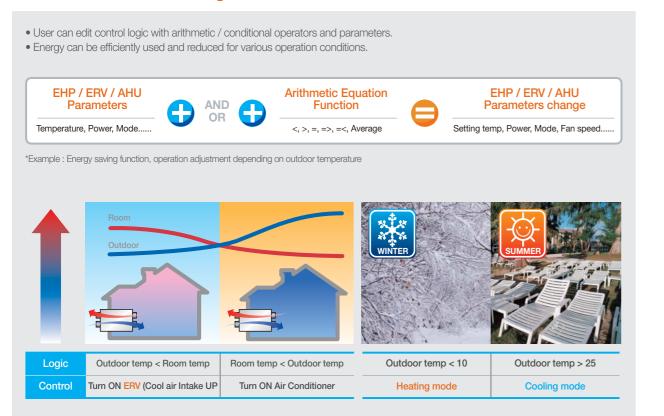
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	01	caur	2009-11-12 18:26	2009-11-13 09:45	611	Resolved

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		NC status	Disable	Filter	Off	Expansion	120 STEP	Version	00575C 2006-03	End Out temp	507

User Editable Control Logic



Useful History Management

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



Operation History



1. Operation On/Off execution time

2. Daily accumulated operation On time

3. Schedule operation execution time



Error History

2. Error details 3. Error occurrence/clear time 4. Error state (solved / unsolved)

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.

Building Control System Operation Restriction Error Status Indicator

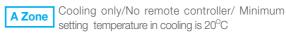
Fire Control System

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



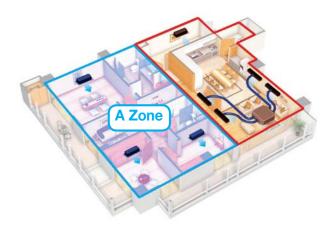


B Zone Cooling only/Remote controller use



98





Centralized Control 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.



Flexible and Efficient Centralized Control

Centralized Controller

MCM-A202D*

- Maximum of 16 group controls (Maximum of 256 Indoor units)
- Unified/Individual indoor unit control (On/Off)
- Wireless/wired remote control restriction
- Cooling/Heating mode control
- Indoor unit error display
- * MCM-A202D is compatible with MCM-A202A and MCM-A202B

Function Controller

MCM-A100

- On/Off, Operation Mode, Fan Speed, Airflow, Temperature setting
- Error display
- Filter replacement alarm reset
- Control and monitoring of up to 16 indoor unit groups
- * MCM-A100 must be connected to MCM-A202D to operate

Operation Mode Selection Switch

MCM-C200

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

Touch Controller

MCM-A300N

- Centralized control + function + schedule
- 7 inch wide display
- Screen touch control
- Easy zone setting and control
- Multi language









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.)



Individual Control Convenient and Simple

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.

Image: Cool Day Families Image: Co

Line-up

• Wireless remote controller

• Wired remote controller

• Wireless signal receiver

• External room sensor

• 7Day scheduler

• Erv wired remote controller

• Simplified wired remote controller





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-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

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

ERV Wired Remote Controller

MWR-VH02

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

External Room Sensor

MRW-TA

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

7day Scheduler

MWR-BS00

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













Building Management Module

Unitive and Various

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



Unitive & Various Building Management Module

BACnet gateway

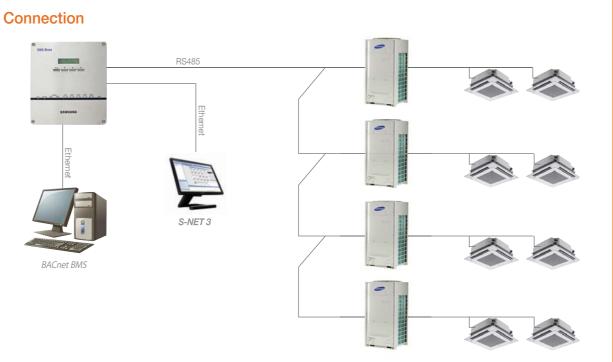
MIM-B17* (DMS-Bnet)

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

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

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

Output contact control





- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction

- Thermo On/Off
- Power distribution
- Operation mode lock
- Set temperature limit
- In/Out contact state
- Emergency stop
- Error code

LonWorks gateway

MIM-B18* (DMS-Lnet)

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

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



Thermo On/Off

Power distribution

Operation mode lock

• Set temperature limit

In/Out contact state

Emergency stop

• Error code

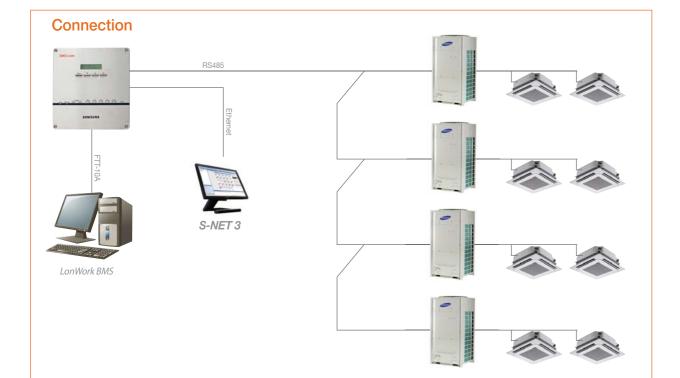
Control

- 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

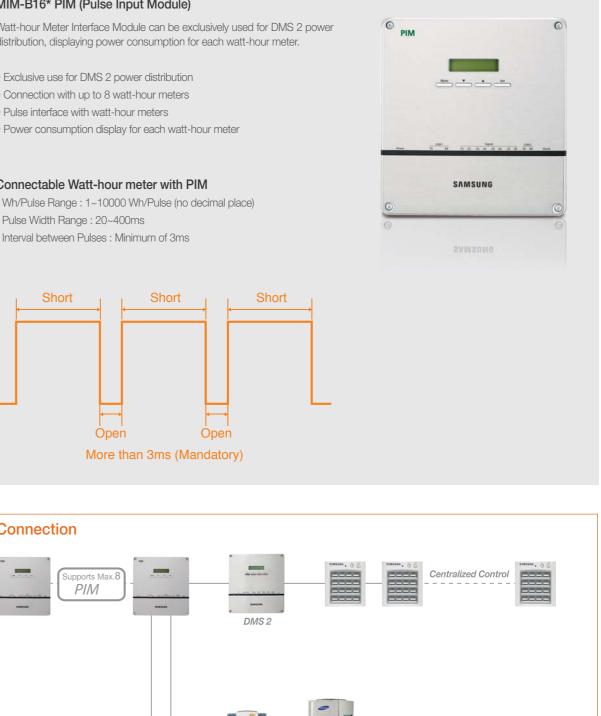
		-

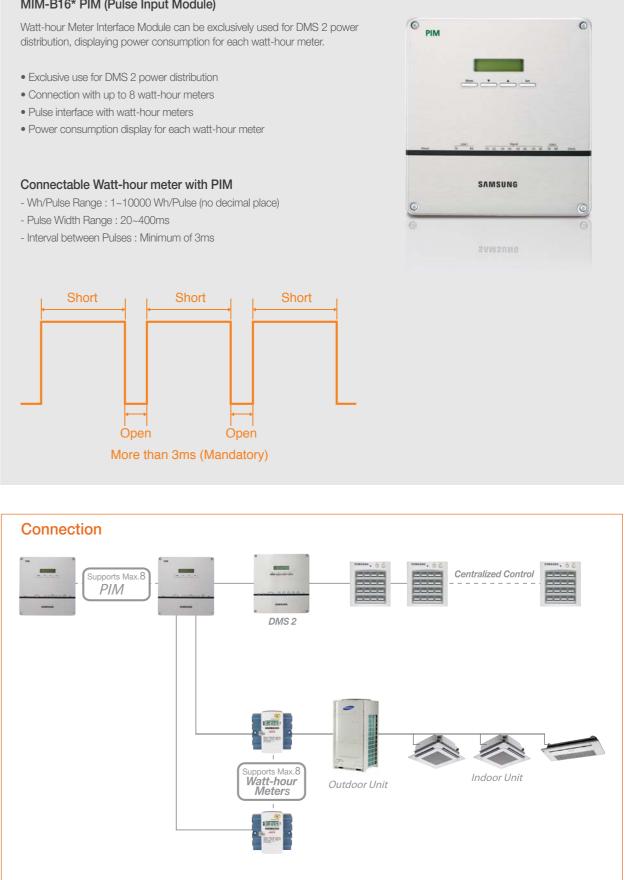
- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction



Watt-hour Meter Interface Module

MIM-B16* PIM (Pulse Input Module)





Zencloud (RMS)

Zero Energy Network

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

Internet Based Smart Management

MST-R5A (Zencloud Standard)

- 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
- Caycle Data Backup and Check Cause Failure



Group Management

• Multiple site can be managed at one place

• Usage comparison of multiple sites



Report

• Weekly and monthly report for usage trend



Mobile App

• Monitoring and control

Fault detection



Remote Fault detection

- Remote fault detection and check reason
- Service notification



User Friendly widget

- Chart and List Widget
- Indoor Widget

3 11		-	
		harn	Series name
4	11700047547928	20-0211111	KinetGi61
	85	20-0214149	Knat0452
11	2	20.011119	Kinat063
	13700005274284	20-0418193	Knat061
	\$1000001100/T08	210-041161639	KIN#\$62
81	120000041207	210-021 10.102	Kite#\$463
	1.070000002219204	20001554	Knat061
~	10000108708708	2001111	Kinat062
	120000041207	2010/00/10/00	Knut563
4 C	1.0.000 Textput	2010/10/10/00	al work (set.)



Data Analysis

- Uptime and power usage
- Cycle data backup



Guestroom Management Module

Energy Conservational

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.

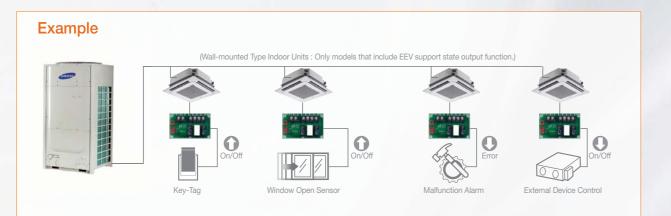
NEW DVM-Pro Advanced and Versatile

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.

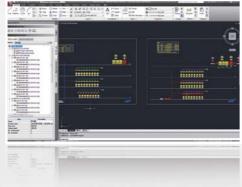
External Contact Interface Module

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









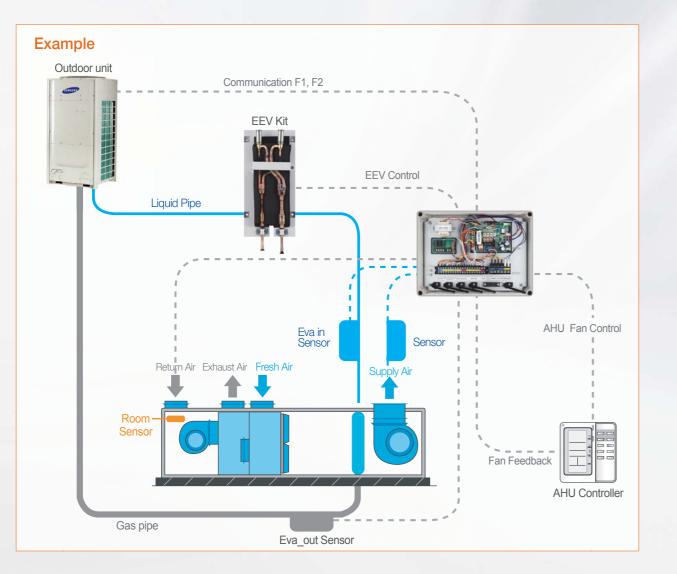
AHU Kit Efficiency Improving

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

Features

MXD-K025AN / K050AN / K075AN / K100AN

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





Eco Heating System

Introducing Greener Heating

EHS Technology

Samsung EHS Story



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.







The EHS Story Samsung's new economical and ecological Human activity has resulted in an increase in domestic heat pump system can be Greenhouse gas emissions (CO2). integrated into your home to provide heating, hot water and air conditioning with

Global Warming

only one system.







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.

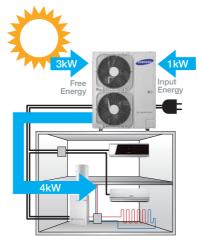
Rapid Air Heating Air Cooling During winter operation, Samsung FHS ir-conditioning combined with underfloor heating provides a rapid & efficient response

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

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.

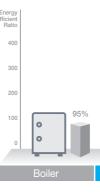
Using a heat pump system for basic heating and hot water in your home is an energy efficient and environment-friendly solution.



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 4kWw 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.





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.





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 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.

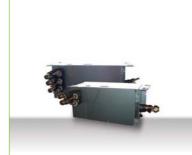




Outdoor Unit

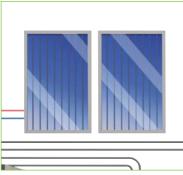
Extracts heat from the outside air and raises inside temperature to a level high enough to supply heating during winter, or emits the heat inside to outside during summer.

-



EEV Kit

Electronic Expansion Valve Kit controls liquid refrigerant flow.



Solar Panel (Field Supply)

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

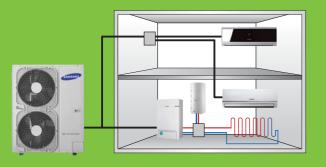




Indoor Unit Supplies air heating or cooling.

EHS Overview

all four seasons.







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.



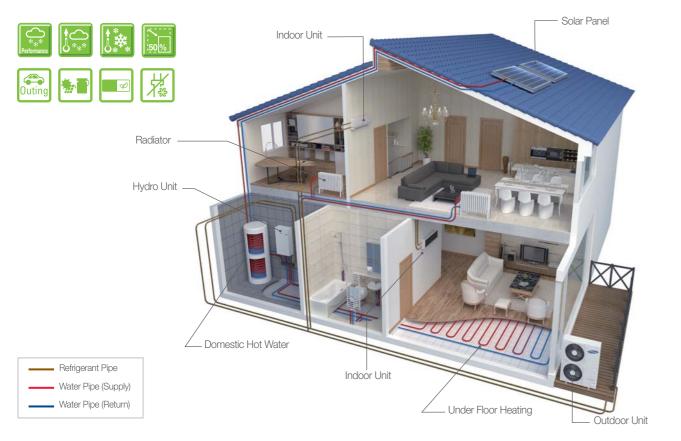
System controller(Option) Adjusts various options and displays the operating status.



Sanitary Warm Water (Field Supply) Delightfully warm and safe water at all times.

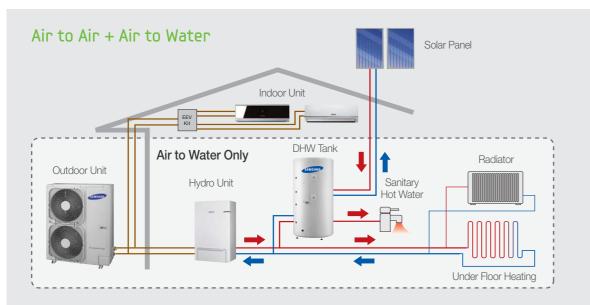


Room Thermostat (Field Supply) Auto-adjusts to the desired room temperature.



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.



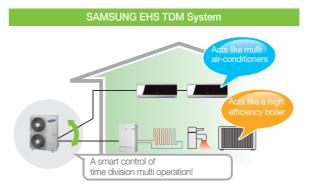
Bringing comfort to your home whilst rapidly achieving a stable temperature. It can also be used for cooling in the summer and heating in the winter.



Perfect all-in-one system

One outdoor unit is all you need to install

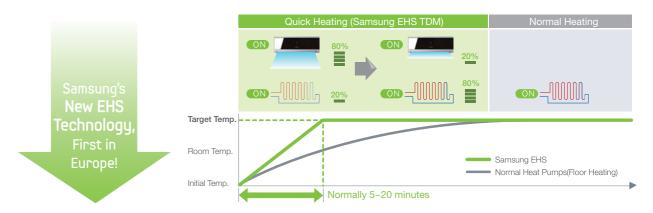
A smart control of Time Division Multi (TDM) operation between air-to-water and air-to-air enables one outdoor unit to operate for both functionalities, resulting in lower product cost and space saving.



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.

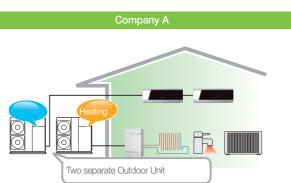




Air-to-Water

Brining 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.





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.



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.



Three types of indoor units

Three different types of indoor units to suit your interior

We have carefully selected and added 3 different types of indoor units to the line-up to provide variety of selection. Home owners may choose the best indoor units according to their design taste (for interior) or functional needs.



Vivace

Vivace's sophisticated appearance seamlessly becomes part of your interior design, adding modern elegance to your space with its shadow mirror panel.



Neo Forte

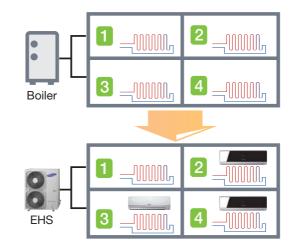
Neo Forte's clean and refined panel design with a unique silver accent adds a touch of class to your space.



Slim Duct

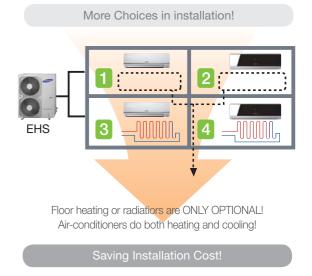
Concealed behind ceilings, Slim Duct enhances the luxurious ambience of your space while providing fresh and powerful cool air.

For Existing Houses with Boilers



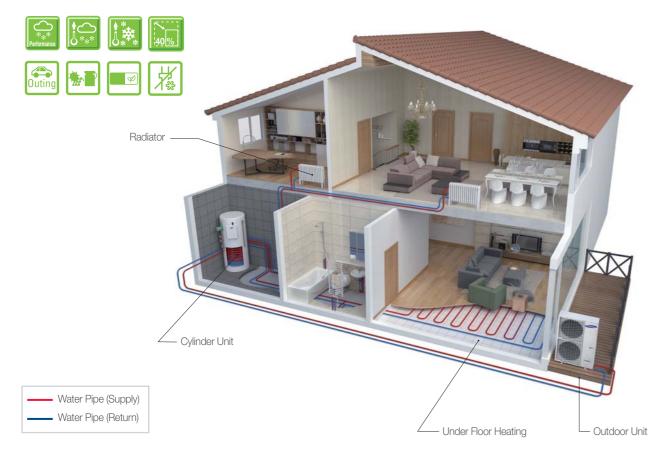
Replace the boiler with Samsung Eco Heating System(EHS) and add air-conditioners where cooling is needed.

For New or Renovated Houses

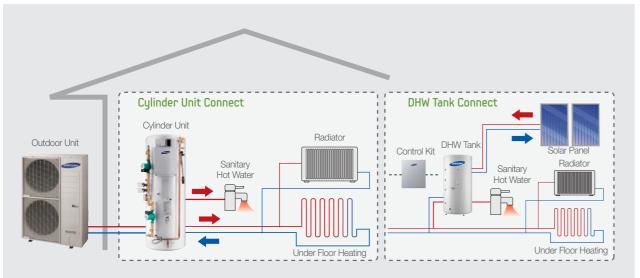


EHS MODO Simpler units, installation and usage for maximum convenience!

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.



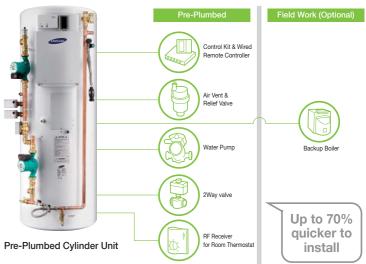
 Space 0.584m² Volume 0.777m³ Weight 180kg

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.

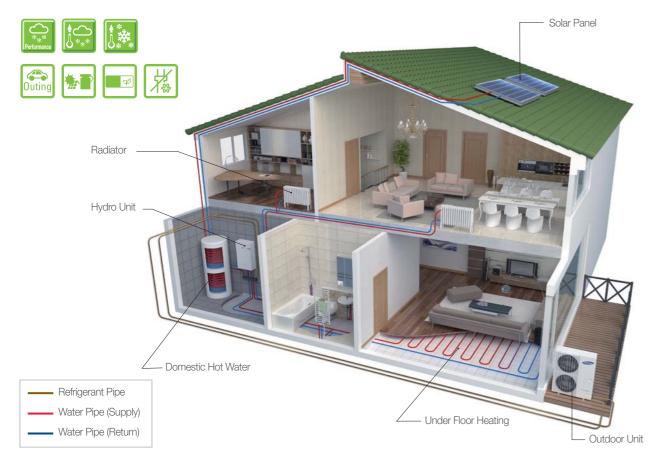
Cylinder Unit = Water Tank + Control Kit + Water Pump + 2way valves + Air-vent + Relief valve + RF Receiver + Wireless Thermostat + Wired Remote Controller



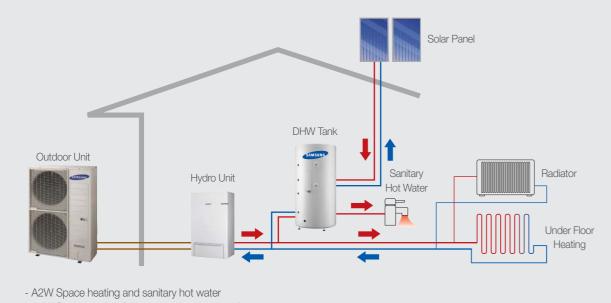




EHS Split is the newest development added to the line-up to meet the up-to-date demands. This air-to-water heating system is designed and built especially for optimized heating.



Overview of EHS Split (Air to Water)



- A2W Space 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

Features

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 backup boiler, which makes it more versatile than ever.

Flexibility

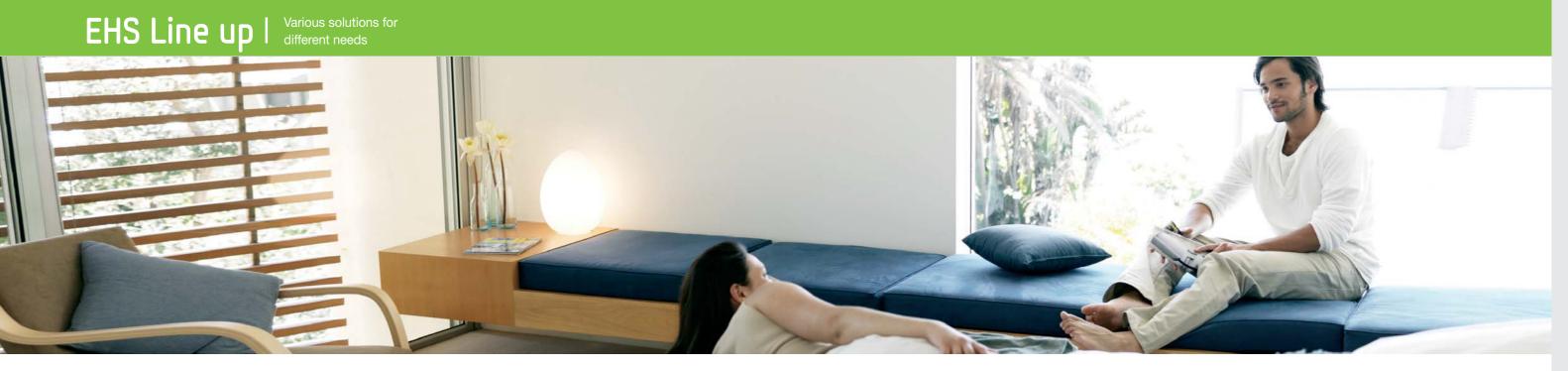
Subtle improvements that brings notable difference

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.









2012 Samsung EHS lineup

Туре		Outdoor unit										Hyd	Hydro unit			Domestic Hot Water Tank Unit					Contro Kit	Indoor unit									Vou footunes
туре	Power/Capacity	/ 5.2kW	/ 6.0kV	N 7.0kW	8.0kW	9.0kW	10.0kW	11.0kW	12.0kW	14.0kW	16.0kW	8.0kW	16.0k		Standard		Solar			tandard		Model	2.2kW	2.8kW	/ 3.6kW	/ 4.5k	kW 5.0	6kW 7.	7.1kW ⁻	10kW	Key features
															200L	300L	200L	300L	200	L 300L											
EHS Mono	1P 220-240V 50Hz					•			•	•	•																				 Easy installation Compact and light outdoor unit
	3P 380-415V 50Hz								•	•	•																			_	 Pre-plumbed cylinder unit
	1P 220-240V 50Hz	•					•		•	•	•	•	•		•	•	•	•													 High reliablity Newly designed fan Base plate
EHS Split	3P 380-415V 50Hz								•	•	•		•																	heater (Option) • Felxibility	
																						Neo Forte	•	•	•			•	•		 Integrated heating and cooling system at a lower cost Perfect all-in-one
	1P220- 240V50Hz		•	•	•			•		•	•	•	•		•	•	•	•				Vivace •	•	•	•			•	•		system Quick heating by TDM technology Typical seasonal usage
EHS TDM																						Slim Duct	•	•	•	•		•			 Flexibility Wall-mounted, Duct Type Indoor units Diverse installations