Samsung System Air Conditioner
Eco Heating System

Achieve top-class energy efficiency for superior heating performance
Adopt air conditioning solutions from a trusted brand

At Samsung, our focus is on providing smart solutions for better business and a higher quality of life. We imagine all sorts of innovative ways to improve how homes and businesses function and to help them run smoothly.

We’re proud to say our Samsung brand is recognized as one of the world’s leading intuitive product design companies, and one of the world’s top electronics producers. Samsung system air conditioners have been designed with the same passion for innovation and quality that has helped make Samsung one of Interbrand’s 2014 Best Global Brands.

As such, Samsung system air conditioners are held in high esteem around the world and have been selected for a multitude of applications, including shopping centers, airports, stadiums and hotels. And in constant pursuit of excellence, we continue to invest heavily in research and development, performance testing and quality control to deliver superior air conditioning systems to market.

Control the atmosphere with smart, efficient technology

Samsung system air conditioners provide the best in performance and efficiency to ensure residential and commercial environments are perfectly tempered, healthy and comfortable—all while conserving costs. Our intelligent, high-capacity air conditioning systems offer just the right solution for any application.

Energy-efficient, eco-friendly technology

Samsung is committed to providing eco-friendly air conditioners and air solutions that help prevent global warming and contribute to resolving energy shortages. Using components such as eco-friendly R-410A refrigerant and smart inverter technology, Samsung air conditioners reduce air pollution and provide comfortable cooling with minimal power consumption, saving the environment and costs.

Reliable performance

Reliability is a key factor when choosing an air conditioning system. With their robust design, Samsung system air conditioners offer the strength and reliability to ensure consistent performance at all times. Their perfectly synchronized parts offer balanced operation for improved durability and longevity. Furthermore, weather resistance keeps the units operating even in adverse temperatures.

Exceptional design and innovation

Samsung system air conditioners are lauded industry wide for their innovative technology and exquisitely beautiful, yet high-functioning design. From prestigious institutions and exhibitions across the globe, Samsung units have garnered copious awards, including the Galeria de Innovacion Award, iF Product Design Award, Comfort & Design Award, and Good Design Award.
Energy efficiency

Save primary energy, spend less money

‘Energy efficiency plan’ is aimed to reduce primary energy usage up to 20% by 2020. EU nations are trying to save money that is being wasted by unnecessary energy loss.

Eco-labels & Declaration

Samsung Electronics makes on-going efforts to develop environment-friendly products that minimize the negative impacts on the environment in every aspect of its products, from raw material procurement to production, transportation, usage and final disposal. Concerns for the environment are at the core of each product development. Samsung’s environment-friendly technologies and recycling programs have been highly recognized via various global approvals and awards worldwide.

Reason why we made Samsung EHS

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

Oil is running out!
As the oil price is getting higher, we need renewable energy resources.

Un-Sustainable Resources
Rising oil prices have lead to the associated operating costs of heating a home to increase.

Samsung EHS
Samsung’s system can be integrated into your home and provide heating, hot water supply and air conditioning using only one system.

Save money
Samsung’s EHS, can reduce your running costs by up to a 30% compared to a standard gas boiler system.

Keep our planet green
Using renewable energy efficiently instead of conventional boilers, will reduce CO₂ emissions and keep our planet green.
## Lineup

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>EHS mono</th>
<th>EHS split</th>
<th>EHS TDM</th>
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<td>Perfect all-in-one system</td>
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<td>Diverse installation</td>
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Experience eco-smart temperature control with efficiency and economy in mind

In the wake of rising greenhouse emissions and oil costs, Samsung offers an energy-smart, all-in-one heating, hot water and air conditioning unit for today’s residences.

The Samsung Eco Heating System (EHS) uses highly efficient heat pump technology to deliver supreme comfort and low operating costs year-round.

This economical and ecological air conditioning system uses significantly less energy than conventional boiler systems, thereby lowering power costs and CO\textsubscript{2} emissions. Plus, it provides various combinations of air and water solutions for heating and cooling that satisfy varied users’ needs throughout all four seasons.

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

Domestic hot water tank
Supplies domestic hot water

Underfloor heating & radiator (field supply)
Water warmed up in the hydro unit circulates through the underfloor and radiators to make the home pleasant and comfortable.

New controller (optional)
Adjusts various options and displays the operating status.

EEV Kit (TDM only)
Electronic Expansion Valve kit controls the liquid refrigerant flow.

Hydro unit
(Split and TDM only)
Provides heated water

Room thermostat
(field supply)
Auto-adjusts to the desired room temperature

Wifi Kit
Enables control via a wireless network

Indoor unit (TDM only)
Supplies air heating and cooling
Eco Heating System
Smart heat pump technology

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

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

The benefits
Integrating a heat pump system for basic heating and hot water in the home is an energy-efficient and environmentally friendly solution. The most noticeable advantage of the heat pump’s energy efficiency is a sizeable reduction in energy bills. The EU has defined heat pump systems as renewable products. Under this classification, end users can apply for government subsidies or tax refunds when installing heat pump systems.

Samsung EHS for smarter heating and cooling
The Samsung EHS suite offers a complete range of systems designed to meet individual heating and cooling needs, while supporting energy efficiency:

- **EHS Mono** uses an integrated design that includes the hydronic components, which simplifies installation and saves space.
- **EHS Split**, the newest in the lineup, is an air-to-water heating system designed for high-performance heating.
- **EHS TDM** delivers ultimate, all-season comfort with both air-to-air and air-to-water heating and cooling.
Eco Heating System
High performance, efficient control

Set the atmosphere seamlessly with eco-efficient temperature control

Samsung EHS combines the best of efficiency, powerful performance and manageability in an all-in-one heating and cooling system. Residents can easily create a restful, comfortable environment with a full range of operation and the convenience of wireless control.

- **World-class efficiency.** Achieve superior-grade efficiency with eco-friendly heat pump technology, saving significant energy and costs.
- **Powerful heating.** Weather cold climates perfectly with advanced heating performance at low ambient temperature, featuring a heating capacity of approximately 90% at -10°C.
- **Low noise level.** Rest soundly through the night with a noise level as low as 47 dB.
- **Wide range of operation.** Create an environment that suits individual comfort with a wide range of temperature control—even down to -25°C.
- **Smart Wi-Fi.** Manage temperatures anywhere, anytime with wireless control with

  - **Full range.** Select from a full spectrum of high-performance heating and cooling systems to meet every need, including all-new 4 kW EHS Split and 5 kW EHS Mono.

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**World-class Efficiency**

- **The Highest Grade**
  - Before
  - New (Split 4kW)

**Powerful Heating**

- **90% at the Low Ambient**
  - * 90% of heating performance at -10°C of ambient Temp.

**Low Noise Level**

- **47dB(SPL) for 6kW**
  - * Competitor D = 48dB (6kW)
  - 3-step Silent Mode at Night

**Wide Range of Operation**

- **Down to -25°C**
- * at winter season

**Smart Wi-Fi**

- **Control Anywhere, Anytime**
  - * Optional Kit

**Full Range**

- **The New 4kW Split & 5kW Mono**
  - * Designed for the EPBD (Energy Performance of Buildings Directive)
Maintain optimal comfort and convenience with energy- and cost-efficient units

Samsung EHS Mono integrates an outdoor unit that includes the hydronic parts. Therefore, EHS Mono does not require space or an installation process for hydronic units and the refrigerant pipes.

EHS Mono process overview (air-to-water)

- Compatible with all low temp. system
- High seasonal energy efficiency
- Up to 55°C water supply
- Easy to install
- Easy to control
- Operation Range down to -25°C
- New 5kW model ideal for EPB directives
- Higher capacity at low ambient temperature
**EHS Mono**
Simplified units for maximum convenience

**Enjoy a pleasant environment with streamlined, energy-efficient heating and cooling**
The EHS Mono offers a host of features that deliver energy-smart performance, while supporting simplified usability.

**High performance at low temperature**
Samsung EHS Mono 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 -25°C.

**Control kit**
Control kit is an interface to allow connection to other auxiliary hydronic and heating equipment. Samsung Mono outdoor units can be used with this interface box, creating an ideal solution when a hydronic and heating equipment is required.

**Efficiency (EHS MONO)**

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<td>6.0</td>
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**Compact, lightweight units for easy installation**
Samsung EHS Mono features a compact, lightweight outdoor unit. Its unique frame considerably saves installation labor and costs, satisfying both installers and customers.
Temper every room perfectly in any climate

Samsung EHS Split is the newest system designed to meet the up-to-date heating demands of today’s households. Built especially for optimized heating, this air-to-water heating system delivers superior comfort even in extreme temperatures.

EHS Split process overview (air-to-water)

- Compatible with all low temp. system
- High seasonal energy efficiency
- Up to 55°C water supply
- Easy to install
- Easy to control
- Operation Range down to -25°C
- New 4kW model ideal for EPB directives
- Higher capacity at low ambient temperature
**EHS Split**

**Ultimate heating performance**

**Enjoy consistent comfort even in frigid weather conditions**

Samsung EHS Split features enhanced efficiency, flexibility and performance to ensure a comfortable home atmosphere year-round.

**Optimized seasonal efficiency**

EHS Split provides consistently efficient performance all season long. It optimizes heating performances at the actual operating temperature, -2°C to 2°C, while providing outstanding SCOP in compliance with eco-design directives.

**Maximum reliability**

Samsung has added subtle improvements that deliver a noticeable difference. EHS Split has been optimized to meet up-to-date heating and cooling demands with features such as low noise fan, anti-snowing and silent mode at night.

**Flexibility for increased control**

Samsung EHS Split offers broad compatibility for easier control. The unit can be implemented with a domestic hot water tank, thermostat, pump, solar panel or back-up boiler, making it exceptionally versatile.
**EHS TDM**

**Stabilize the atmosphere with all-season heating and cooling**

The all-in-one Samsung EHS TDM (Time Division Multi) supports both air-to-air and air-to-water heating and cooling, providing the ultimate indoor climate solution for every season.

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**EHS TDM process (Air-to-Air and 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)
  - Consists of outdoor unit, hydro unit, DHW tank (optional) and indoor units (wall mounted and slim duct type)
  - Compliant 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)
  - Consists of outdoor unit, hydro unit, DHW tank (optional)
  - Compatible with 2 hybrid energy sources (field supply)
    - Solar panel/Back-up boiler
EHS TDM
All-season comfort

Enjoy smart temperature control throughout the year
Samsung EHS TDM offers an integrated solution to residents’ heating and cooling needs in every season. Its all-in-one design, innovative TDM technology and broad flexibility only enhance its performance, delivering unparalleled comfort for any household.

Low-cost integrated heating and cooling
With EHS TDM, both water and air are heated by a single outdoor unit.

Air-to-air
Air-to-air heating and cooling brings comfort to the home while rapidly achieving a stable temperature. EHS TDM can also be used for cooling in the summer and heating in the winter.

Air-to-water
Air-to-water heating and cooling tempers the atmosphere perfectly and cost effectively. The efficient system uses energy from the outside air to heat the radiator, under-floor and sanitary water supply.

Perfect all-in-one system
EHS TDM requires installation of only one outdoor unit. Smart control of 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 with TDM technology

Floor heating is well recognized as the optimal heating option for indoor thermal comfort. However, it takes 4 ~ 8 hours to heat up the room after turning on the floor heating. Samsung TDM technology, the first of its kind in Europe, quickens the warmup with double the heating source. EHS TDM distributes hot air and provides floor heating to rapidly warm up the room.

Samsung TDM technology, the first of its kind in Europe, quickens the warmup with double the heating source.

Typical seasonal usage

Typically, a different heating solution is needed for each season’s particular climate. Samsung EHS can be used all year long—regardless of the climate—because a single outdoor unit can be used for both air-to-water or air-to-air cooling and heating.

Wide compatibility and flexibility

Samsung EHS TDM offers broad compatibility for easier control. The unit can be implemented with a domestic hot water tank, thermostat, pump, solar panel or back-up boiler, making it exceptionally versatile.
EHS TDM
Versatile, cost-effective installation

Selection of indoor units
Homeowners can choose the most appropriate indoor unit according to their interior design taste or functional needs.

Neo Forte. This unit’s clean panel design with a unique silver accent adds a touch of class to the interior space.

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

Diverse installations
Samsung EHS TDM supports diverse installation applications. Homeowners looking for an economical heating system for either new homes or renovation projects may find Samsung EHS TDM an attractive option. This single solution can replace the existing boiler and provide several installation options to meet homeowners’ budgetary needs.
Through EHS simulation program, you can select devices and simulate heating load, energy consumption, cost, CO2 emission and LCC (Life cycle cost) analysis according to national/regional temperature and architectural conditions. Furthermore, simulation report can be submitted to the client in saved file or printed format.

**General conditions**
- Location / Design Conditions / Application Setting

**Comparisons chart**
- Monthly Heating Load / Annual Energy Consumption & Cost / CO₂ Emission / GHG Benefit / LCC Analysis

**Equipment**
- Installation Diagram / Available Equipment List Check
## Samsung Eco Heating System

### Residential Solution

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Legal and additional information

About Samsung Electronics Co., Ltd.
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2015-04