

Ducted | Duct S

Versatility as standard.
All of your duct needs
equipped in just one unit.



Install and service your air conditioner more easily in more locations. The Samsung Duct S air conditioner is a compact and lightweight ducted indoor unit. Being 25% smaller and 30% lighter than conventional air conditioners* it fits into even the

smallest spaces. But it still delivers consistent cooling and heating as it automatically optimizes the air volume and pressure and minimizes noise. And its 3-way service access makes it simple and cost-effective to maintain wherever it is located.

* Based on internal testing comparing the Samsung Duct S model with the conventional model. Volume: Duct S = 210L vs. Conventional = 280.8L. Weight: Duct S = 40.5kg vs. Conventional = 58kg.



Efficiency

—
New Sirocco Fan
Twin Rotary BLDC
Compressor

Comfort

—
Smart Tuning
Away Mode

Control

—
Smart Wi-Fi

Installation

—
Compact &
Lightweight Auto ESP
Adjustment

Maintenance

—
3-way Service
Access
Plug-and-Connect
Drain Pump

Ducted | Duct S

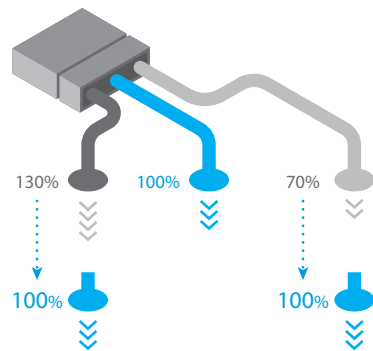
Efficiency & Comfort - Stay comfortable with less effort and energy

The Samsung Duct S air conditioner is a global frontrunner in energy-efficient design, temperature control and power. And its smart capabilities intelligently optimize its performance to suit your changing needs.

01 Automatically more comfort & performance

Auto ESP Adjustment

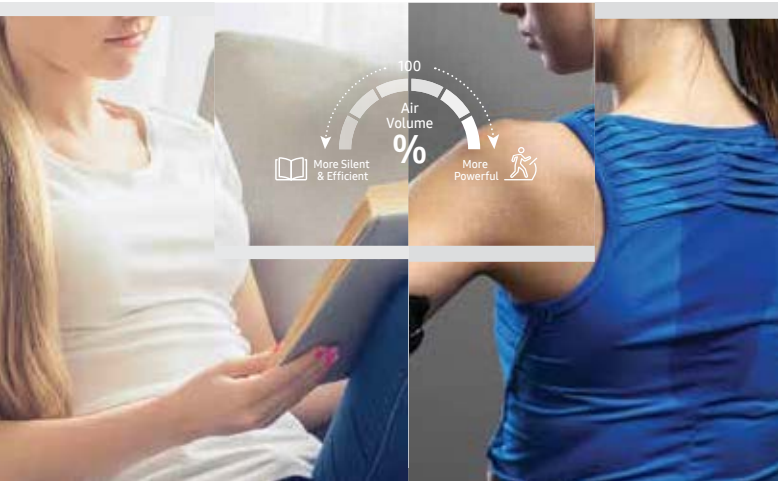
Enjoy maximum comfort and efficiency with minimum effort in any environmental conditions. The Auto ESP Adjustment function automatically senses the external static pressure (ESP), whatever the length of duct. It then quickly adjusts the fan speed to optimize the air volume and pressure and minimize noise, ensuring consistent cooling and heating power in any situation. The ESP can also be easily adjusted using a remote control, which reduces the installation time.



02 Simply more comfort, whatever you are doing

Smart Tuning

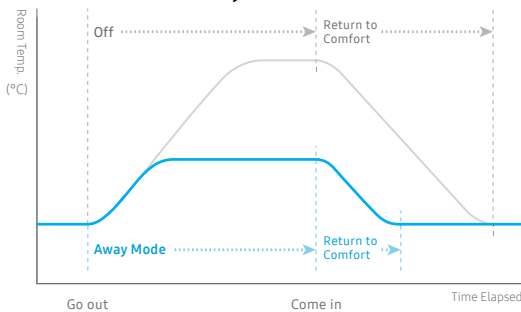
Smart Tuning provides the delicate control needed to ensure optimum performance on any occasion. You can easily fine-tune the settings of its operation to suit your level of activity. So whether you're working out or reading a book you can do it in maximum comfort, while also minimizing noise and saving energy by using the most efficient settings.



03 Optimized operation when away from home

Away Mode

Avoid wasting energy when you're not at home. If you're out of the house, simply select the Duct S air conditioner's Away Mode. It will maintain the optimal temperature with minimal operation during your absence. So it saves energy, but you will always feel comfortable when you return.



Control - Your comfort is in your hands

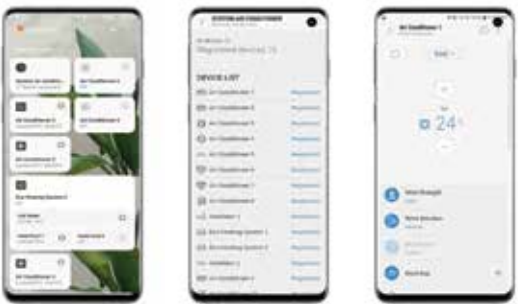
With the Samsung Duct S air conditioner you can easily optimize the conditions in multiple spaces with a simple touch. And you can even adjust its performance when you're not there.



04 Remotely control it anytime, anywhere

Smart Wi-Fi

Control your air conditioner when you're on the go. Using the Smart Wi-Fi function on a smartphone* you can remotely control the Duct S anytime and anywhere. With a simple touch you can turn it on and off and select the operating mode and temperature. Or you can schedule when it starts and stops and control other functions. So, even when you're not there, it gives you peace of mind that your workplace or home are cooled efficiently and is not left on unnecessarily wasting energy.



* Available on Android and iOS devices. A Wi-Fi connection and an optional Wi-Fi Kit (MIM-H04N) are required.

Ducted | Duct S

Installation & Maintenance - Save time, effort and space

The Samsung Duct S air conditioner is simple to install, handle and maintain. As well as being compact and light, it also automatically optimizes the air volume and pressure and is easy to service from three ways.



05 Install anywhere and maintain easily

Compact & Lightweight

Fit your air conditioner into even the smallest spaces. The Duct S has a lightweight and compact Slim Fit design that is 25% smaller and 30% lighter than conventional air conditioners*. Its streamlined construction makes it much easier to handle and set up, and means it can be installed almost anywhere in a building and maintained with little difficulty.



25%
Smaller Volume*

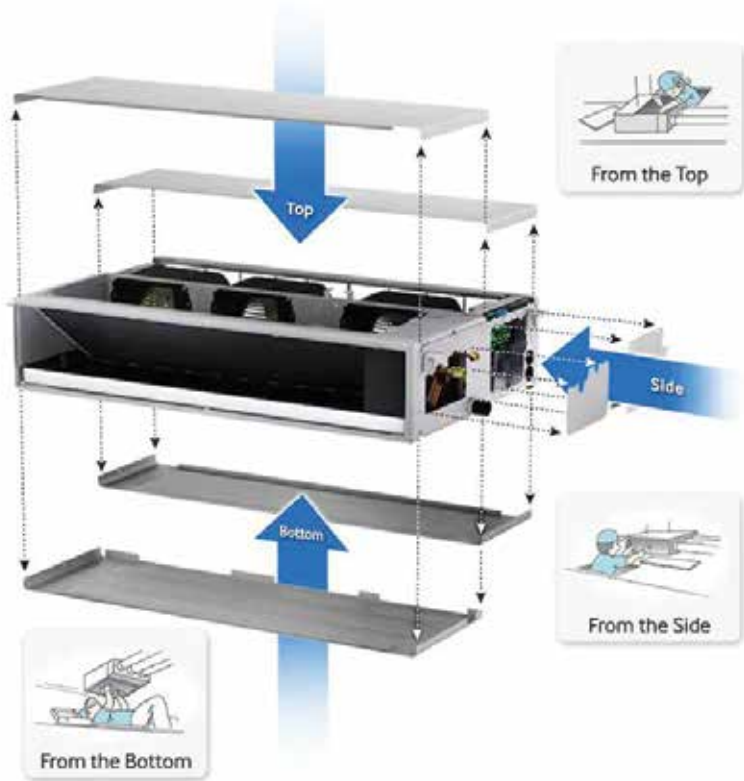
30%
Lighter Weight*

* Based on internal testing comparing the Samsung Duct S model with the conventional model. Volume: Duct S = 210L vs. Conventional = 280.8L. Weight: Duct S = 40.5kg vs. Conventional = 58kg.

06 Easy service access in various locations

3-way Service Access

Service your ducted air conditioner more easily in a wide variety of locations. The Duct S is designed so that its fan, motor and coil can be accessed from three directions – top, side and bottom – using an easy to remove Slide Fit cover. As a result, it's simple to maintain wherever it's installed, which saves you time and money.



07 Drains more water, less risk of contamination

Plug-and-Connect Drain Pump*

The external type Plug-and-Connect Drain Pump* takes the hassle out of draining the unit. Simply plug and connect, as it's compatible with all kinds of indoor units from 3.5 to 15kW. It minimizes the amount of water that collects in the Drain Board, which helps to prevent the outbreak of odor-causing bacteria and fungi. And its advanced Check Valve prevents water from flowing back into the drain, so you don't have to worry about water stagnation or overflows that drip into indoor spaces.

(* Optional)



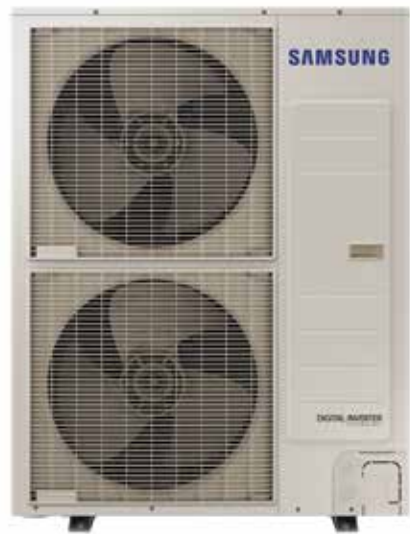
Type			Duct S	Duct S	Duct S	Duct S	Duct S	Duct S	Duct S	Duct S
Indoor Unit			AC012MNMPEC/ID	AC018MNMPEC/ID	AC024MNMPEC/ID	AC030JNMPEC/ID	AC036JNMPEC/ID	AC042MNMPEC/ID	AC048JNMPEC/ID	AC060JNMPEC/ID
Outdoor Unit			AC012MXQPEC/ID	AC018MXQPEC/ID	AC024MXQPEC/ID	AC030JXMREC/ID	AC036JXMREC/ID	AC042MXQPEC/ID	AC048JXMREG/ID	AC060JXMREG/ID
Type			Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Capacity	T3	Btu/h	10200	15300	18700	24000	28500	33000	39000	48000
Power Input	T3	kW	1.2	1.8	2.2	2.85	3.45	3.89	4.6	5.75
Energy Efficiency	T1	Btu/h/W	11.9	11.8	11.8	11.6	11.6	11.8	11.6	11.6
	T3	Btu/h/W	8.5	8.5	8.5	8.4	8.3	8.5	8.5	8.4
Indoor Unit										
Current Input (Nominal)	(Min / Std / Max)	A	1.30/4.70/5.60	2.30/6.90/10.10	3.00/8.10/14.50	4.00/11.50/19.00	5.30/13.80/21.50	5.50/14.50/24.00	1.60/6.30/9.00	2.10/7.20/9.80
Indoor Fan	Motor [Output]	W	153	153	153	153	153	153	244	350
	Air Flow Rate	CMM	13.00/10.20/8.80	18.50/15.30/12.00	24.00/20.50/17.00	33.00/29.00/25.00	35.00/29.00/23.00	40.00/33.00/26.00	41.00/33.00/25.00	51.00/45.00/39.00
		l/s	216.67/170.00/146	308.33/255.00/200	400.00/341.67/283	550.00/483.33/416	583.33/483.33/383	666.67/550.00/433	683.33/550.00/416	850.00/750.00/650
	External Static Pressure (Min / Std / Max)	Pa	14.71/29.42/147.10	14.71/29.42/147.10	14.71/29.42/147.10	0.00/39.23/147.10	0.00/39.23/147.10	24.52/50.99/147.10	0.00/50.99/147.10	0.00/50.99/147.10
Sound Pressure (High / Mid / Low)		dB(A)	28.0 / 25.0 / 22.0	34.0 / 31.0 / 28.0	37.0 / 34.0 / 31.0	39.0 / 36.0 / 33.0	40.0 / 37.0 / 34.0	40.0 / 37.0 / 34.0	41.0 / 38.0 / 35.0	44.0 / 41.0 / 38.0
External Dimension	Net Weight	kg	26	26	26	32	32.5	33.2	38	53
	Net Dimensions (WxHxD)	mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700	1200 x 360 x 650
Outdoor Unit										
Compressor	Type	-	BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
External Dimension	Net Weight	kg	28.5	39.5	50	62	82	87	90	90
	Net Dimensions (WxHxD)	mm	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310	880 x 967 x 320	932 x 1162 x 375	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330
Piping Connections	Max. Length (OD to ID)	m	20	30	50	50	75	75	75	75
	Max. Height (Between ID/OD)	m	15	20	30	30	30	30	30	30

Notes:

- 1) Rated conditions Cooling T1: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
- 2) Rated conditions Cooling T3 : Indoor air temperature 29°C DB/19°C WB, Outdoor air temperature 46°C DB
- 3) Based on equivalent refrigerant piping 5m, Level differences 0m
- 4) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- 5) Sound pressure level is a relative value, depending on the distance and acoustic environment
- 6) FME/C [Flat Microchannel Evaporator /Condenser], F&T [Al-Cu , Fin & Tube]

Commercial | CAC Outdoor

Simple to install and delivers optimal comfort, energy savings and environmental protection.



Most commercial businesses need to balance performance with cost. Samsung's CAC Single air conditioning systems let you create the perfect working conditions for everyone, while

also saving money. As well as being environmentally-friendly you can also utilize a range of indoor units to suit the particular needs of key areas of the business.

Commercial

Overview

Samsung's single split unit is a smart choice for conserving both running costs and energy consumption. This economical outdoor unit employs advanced technologies to minimise waste and improve efficiency. By adopting smart inverter technology. Samsung Air Conditioner (CAC) not only offers silent operation but also provides outstanding cooling performance.

The Samsung CAC air conditioner system delivers optimal comfort, efficiency and performance with features such as:

- **World-class energy efficiency.** Decrease energy consumption by up to 50 percent with a digital inverter system featuring an economical mode.
- **Superior performance.** Weather severe temperatures dependably and maximise comfort with wide temperature allowance.



Deliver consistent cooling with innovative operation for maximum comfort

Samsung is a global front runner in energy-efficient design, temperature control and power. Its aerodynamic blade technology increases airflow silently while adjustable air tuning customises the indoor climate for any situation.

World-class energy efficiency

The Samsung unit boasts cutting-edge technologies to deliver stellar energy efficiency.

- **Twin Rotary BLDC Compressors.** These robust compressors reduce fluctuation and vibration by 75% for effective reluctance.
- **Duct S: FMC (Flat Micro-channel Condenser).**
- **Cassette: Fin and Tube Condenser**

Silent performance

Samsung is a global front runner in energy-efficient design, temperature control and power. Its aerodynamic blade technology increases airflow silently.

Controls

**Individually or centrally,
from anywhere you want.
Everything is always
under control.**

Samsung Control System offers convenient control of individual indoor units or entire groups of multiple units. Using a variety of systems, users can easily monitor and control multiple functions.

[Background] Reference Site: Caves Carriere (France), which has installed controllers for 12 indoor units and 4 outdoor units.

Controls | Individual Control

Wireless / Wired Remote Controllers

Wireless Remote Control
Standard with WindFree™
AR-EH03E/T*



- **WindFree™** On/Off
- Filter replacement alarm reset
- Simple On/Off timer
- Indoor unit option code setting
- Temperature setting range
 - Auto/Cool/Dry : 18°C (65°F) ~ 30°C (86°F)
 - Heat : 16°C (61°F) ~ 30°C (86°F)
- Direct/Indirect function On/Off
 - Motion Detect Sensor necessary
- Net dimensions (W x H x D): 48 x 138 x 24mm

Wireless Remote Control
for 360 Cassette
AR-KH03E/T*



- 360 Cassette air flow direction control
- Filter replacement alarm reset
- Simple On/Off timer
- Indoor unit option code setting
- Temperature setting range
 - Auto/Cool/Dry : 18°C (65°F) ~ 30°C (86°F)
 - Heat : 16°C (61°F) ~ 30°C (86°F)
- Direct/Indirect function
- Air Flow Direction Indicator
 - Spot / Mid / Wide / Swing
- Net dimensions (W x H x D): 55 x 166 x 28mm

Wired Remote Controller
Standard type
MWR-WE13N



- Air conditioner/ERV operation setting (Horizontal air flow, **WindFree™**)
- LCD Backlight
- Air conditioner/ERV error monitoring
- Air conditioner individual blade control
- Filter cleaning alert/reset alert time
- Air conditioner/ERV interlocking control
- Energy saving control
- Automatic operation stop function
- Weekly operation schedule setting
- Button restriction function
- Built-in room temperature sensor
- Real time clock (Daylight Savings Time)
- Control max. 16 indoor units (Air conditioner + ERV) in group with single wired remote controller
- Net dimensions (W x H x D): 120 x 124 x 19.5mm

MWR-WG00JN
English
French
Spanish
German
Portuguese
Dutch

Wired Remote Controller
Simple type
MWR-SH00I



- Simplified wired remote controller
- Air conditioner operation On/Off control
- Fan speed control
- Setting operation mode and temperature
- Reset filter cleaning alert indicator
- Adjust air flow direction
- Operation On/Off timer function
- Net dimensions (W x H x D): 75 x 122 x 16.6mm

Wired Remote Controller
Touch type
MWR-SH11N



- Touch screen wired remote controller
- LCD Backlight
- IR receiver is included
- Away function
- Quiet mode, Sleep mode
- Reset filter cleaning alert indicator
- Air conditioner Individual/group control
- Operation On/Off timer function
- **WindFree™**/Long horizontal wind
- Button locking function
- Eliminate Operation Mode function : Auto/Cool/Dry/Fan/Heat mode
- Built-in room temperature sensor
- °C / °F Convertible
- Relative temperature setting function : -3 ~ +3°C setting
- Control max. 16 indoor units in group with a single wired remote controller
- Net dimensions (W x H x D): 94.2 x 122 x 19.5mm

Wired Remote Controller
Premium type
MWR-WG00*N



* Language support
by model

- Full color 4.3" LCD screen
- Easy and Intuitive UI
- LCD Backlight
- Dual Set Point
- Auto Change Over
- Energy Consumption monitoring
- Multiple Language support*
- IR receiver is included
- Daylight Savings Time
- °C / °F Convertible
- Indoor model number display
- Error list display
- Built-in room temperature sensor
- SD slot
- Net dimensions (W x H x D): 120 x 120 x 19mm

* /T (UAE) - Auto/Cool/Dry: 20°C (68°F) ~ 30°C (86°F)

Controls | Centralized Control

Centralized Control Systems

On/Off Controller
MCM-A202DN



- Max. 16-group controller (Max. 128 units)
- Whole/Group/Individual indoor unit control (On/Off)
- Restriction on the use of wireless/wired remote controllers and external contact control
- Cooling and heating mode control
- Indoor unit error display
- Net dimensions (W x H x D): 110 x 120 x 55mm

Touch Controller
MCM-A300N



- 7 inch touch LCD controller
- Controls max. 128 indoor units
- Controls max. 12 zones
- Schedule control, Indoor unit usage restriction, View indoor unit error history
- Net dimensions (W x H x D): 205 x 163 x 38mm

Wi-Fi Kit 2.0
MIM-H04*N



- **Enhanced Convenience**
 - Voice Control available through a smartphone with Bixby
 - Connected home with affordable units in every home using SmartThings
 - Welcome cooling and heating based on Geo-fencing
 - Individual indoor unit control
- **Personalized Climate Environment**
 - Preferred automation
 - Multi-device experience interoperable with smart appliances
- **Energy Usage Monitoring**
 - Current and daily, weekly or monthly energy usage** of the outdoor unit
- **Provides ease of installation**
 - Easy set-up possible for up to 16 indoor units at once

- Net dimensions (W x H x D): 185 x 130 x 29mm

DMS2.5
MIM-D01AN



- Built-in web server for PC-independent management and remote access control
- Multiple upper-layer control access (S-NET 3, Web-client)
- Weekly/Daily schedule control
- Power distribution function
- Current time management even during power failure (for 24 hours)
- Emergency stop function with simple contact interface
- Individual/Group control of up to 256 indoor units, AHU and ERV
- User editable control logic
- Accessible level management.
- Dynamic security management
- Operation & error history management
- Data storage in non-volatile memory & SD memory
- Net dimensions (W x H x D): 240 x 255 x 65mm

Pulse Interface Module (PIM)
MIM-B16N



- The Watt-hour Meter Interface Module can be exclusively used for DMS 2.5 power distribution, displaying power consumption for each watt-hour meter.
- Exclusive use for DMS 2.5 power distribution
- Connection with up to 8 watt-hour meters
- Pulse interface with watt-hour meters
- Watt-hour meter - by 3rd party
- Net dimensions (W x H x D): 240 x 255 x 65mm

BACnet Gateway
MIM-B17BN



With the BMS control and monitoring function, the BACnet gateway makes it easy to control the air conditioning network in various ways. The BACnet gateway can control up to 256 indoor units.

- Interface for the BACnet management system
- Maximum 256 indoor units plus ERVs support with a maximum of 80 interface modules
- Includes DMS 2.5 functions
- Net dimensions (W x H x D): 240 x 255 x 65mm

LonWorks Gateway
MIM-B18BN



The LonWorks gateway is an interface for Lon-Connection to the 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.

- Exclusive use for DMS 2.5 power distribution
- Connection with up to 8 watt-hour meters
- Pulse interface with watt-hour meters
- Watt-hour meter - by 3rd party
- Net dimensions (W x H x D): 240 x 255 x 65mm

Receiver Kit
MRK-A10N



- Concealed wireless signal receiver for ducted units
- Filter replacement sign
- Fan operation display
- Operation Timer setting display
- Operation On/Off button
- Operation On display LED (blue)
- Defrost operation display LED (red)
- Net dimensions (W x H x D): 80 x 130 x 28mm