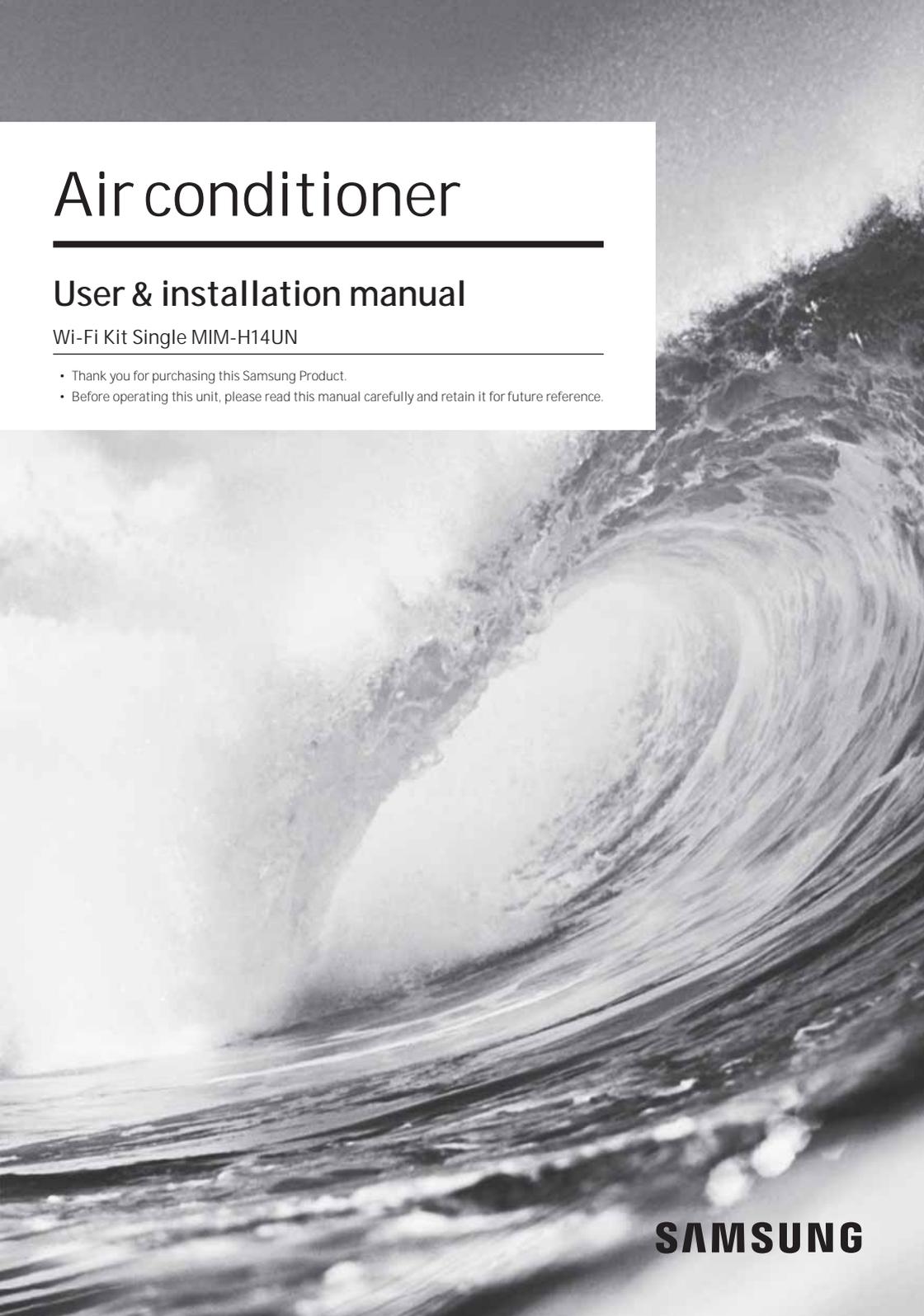


Air conditioner

User & installation manual

Wi-Fi Kit Single MIM-H14UN

- Thank you for purchasing this Samsung Product.
- Before operating this unit, please read this manual carefully and retain it for future reference.



SAMSUNG

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Safety precautions

California Proposition 65 Warning (US)

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

This installation manual explains how to install a Wi-Fi Kit Single to an indoor unit of Samsung system air conditioners.

Read the installation manual thoroughly before installing the Wi-Fi Kit Single.
(Refer to the appropriate manual for installing product or other optional parts.)

 **WARNING**

Hazards or unsafe practices that may result in severe personal injury or death.

 **CAUTION**

Hazards or unsafe practices that may result in minor personal injury or property damage.

 **WARNING**

Contact service center for installation.

- There is a risk of product malfunction, water leakage, electric shock or fire.

Install the product securely in a place that can withstand the weight of the product.

- If the installation location is not strong enough, product may fall and be damaged.

Connect the power with rated voltage when installing.

- If not, there is risk of fire or damage to the product.

Do not attempt to move or re-install the product that is already installed.

- There is risk of electric shock and fire.

Do not attempt to modify or repair the product on your own.

- There is potential risk of product damage, electric shock or fire. When repair is needed, consult service center.

Check if the installation was done properly according to the installation manual.

- If the product is installed incorrectly, there is risk of electric shock or fire.

Make sure that all wiring work is done by a qualified person complying with regional standards and instructions in this manual.

- If the installation is done by unqualified person, there is risk of product malfunction, electric shock or fire caused by incorrect installation.

Contact the service center if you need to dispose the product.

Safety precautions



CAUTION

Do not install the product in a place where it is or might be exposed to inflammable gas leakage.

- There is risk of fire or explosion.

Do not install the product in a place where it will be exposed to oil or vapor etc.

- If the product is used in a place where it is exposed to oil, vapor or sulphur dioxide, parts of the product may get damaged or product may function abnormally.

Make sure that water does not get into the product.

- There is risk of electric shock and fire.

Make sure there is no tension to the cable during installation.

- Cable may get cut and cause fire.

Install the product in a place with temperature between 0 °C-39 °C (32 °F-102 °F) with no direct sunlight.

- If not, there is risk of electric shock or abnormal operation.

Do not install the product in a place where special spray or acid/alkali solution is used.

- There is risk of electric shock or abnormal operation.

Do not press the buttons with sharp objects.

- There is risk of electric shock or damaging the parts.

Do not connect the power cable to the communication cable terminal.

- There is risk of fire.

When installing the product in hospitals or other places, make sure that the product does not interrupt with other products.

- Abnormal operation may occur.

This wireless device has a possibility of radio wave interference during operation.

Checks before Installation

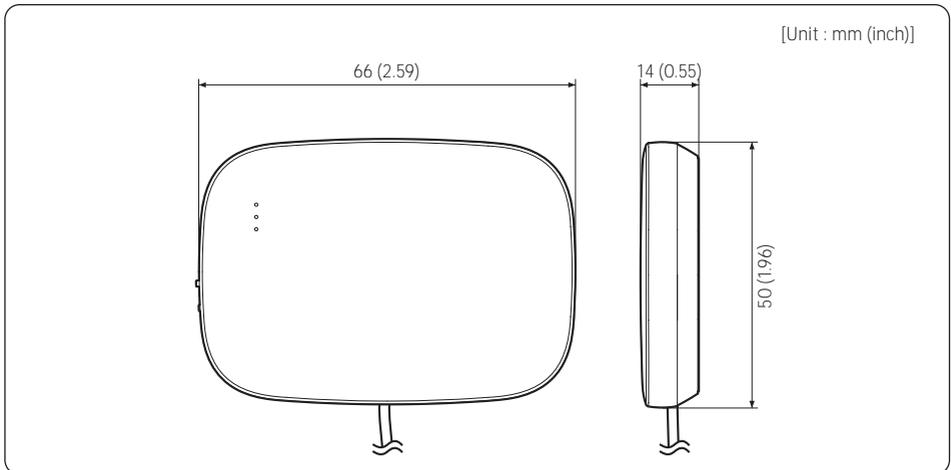
Accessories

Wi-Fi Kit Single - with WIRE	User Manual / Installation Manual
	

CAUTION

- The Wi-Fi Kit Single must be installed by a certified technician.
- Before installation, be sure to cut off power.
- Install the cables of the Wi-Fi Kit Single inside the product to prevent user access, in accordance with the relevant electrical wiring regulations.

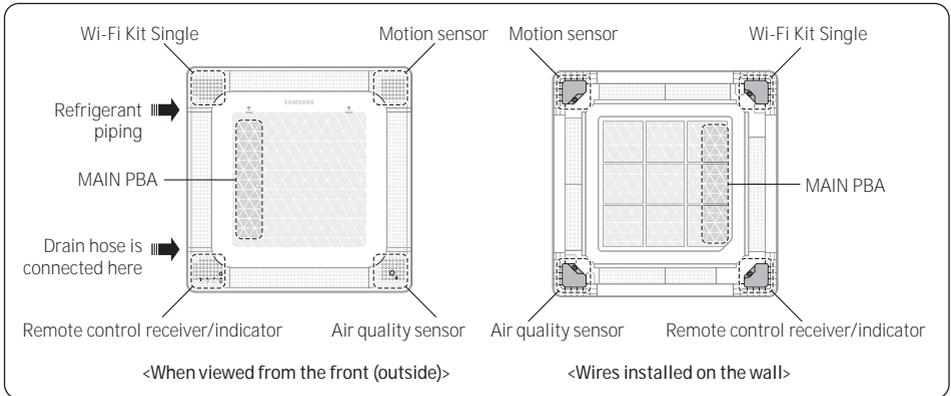
External Dimensions



Installing the Wi-Fi Kit Single

4 Way Cassette (PC4NUFMUN)

Where to install

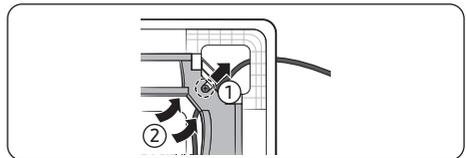
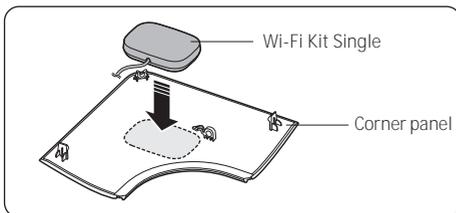


CAUTION

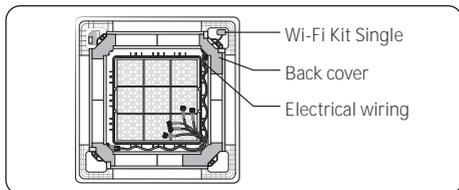
- If it is not installed at the specified position, communication interference or failure may occur. Make sure to install it at the specified position.
- If the panel is already installed on the indoor unit, first remove the panel from the indoor unit before installing the Wi-Fi Kit Single.
For details on how to remove the panel, refer to the panel installation manual.

Attaching the Wi-Fi Kit Single

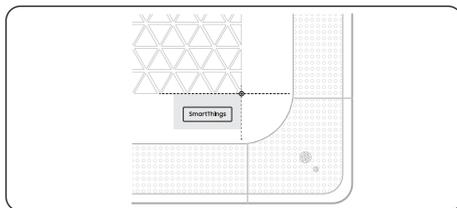
- 1 After separating the corner panel, use the double-sided tape attached to the inside of the Wi-Fi Kit Single and fix it to the corner panel indentation.
 - Arrange the wire in the direction of the arrow of the indentation.
- 2 Arrange the wiring as follows.
 - a Unfasten the single screw (①) on the back cover.
 - b Lift up the back cover in the arrow direction (②), as shown in the figure.



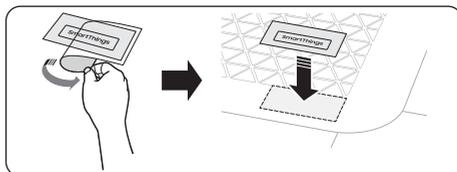
- c Arrange the wiring so that it is placed under the back cover when the cover is in place.
- d Tidy up the WIRE of the Wi-Fi Kit Single along the inside of the panel.
- e Attach the back cover.



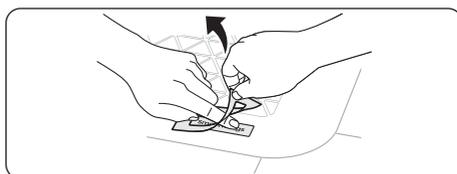
- 6 Attach the SmartThings sticker to the spot specified in the figure below.



- a Remove the back film from the sticker, and then attach the label at the specified spot.

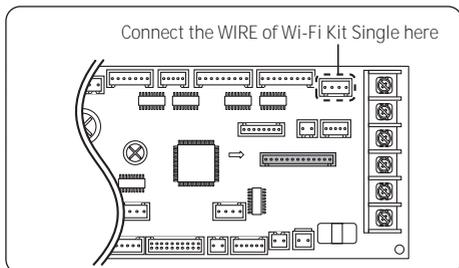


- b Remove the front film while pressing down on the sticker.



CAUTION

- The WIRE may get damaged if it is pinched between the back cover and the panel main body when attaching the back cover. Exercise caution to ensure that the WIRE is not pinched.
 - When attaching the back cover, fix the panel insulation to the original position.
- 3 Attach the panel to the indoor unit.
(For details on how to attach the panel, refer to the panel installation manual.)
 - 4 Open the electric unit cover on the indoor unit, and connect the WIRE of the Wi-Fi Kit Single to the 'WIFI' connector (yellow, 5-pin) at the top right.

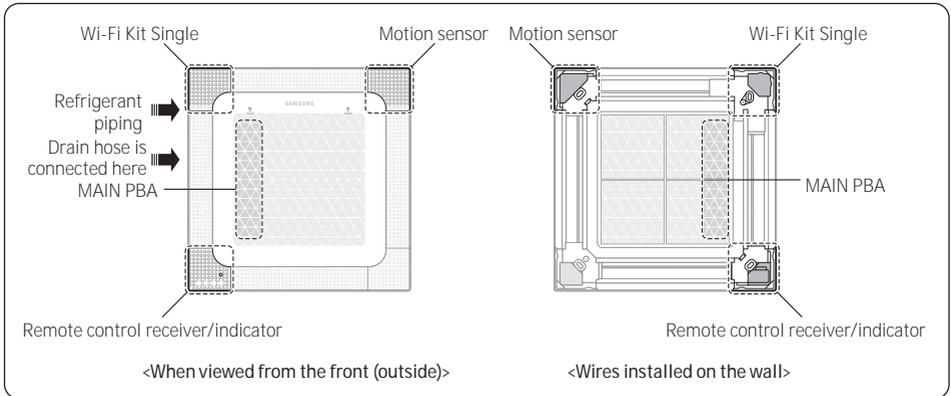


- 5 Close the electric unit cover on the indoor unit.

Installing the Wi-Fi Kit Single

Mini 4 Way Cassette (PC4SUFMUN)

Where to install

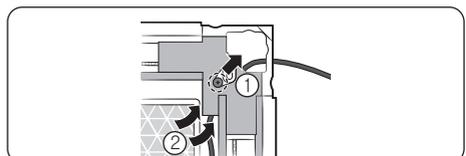
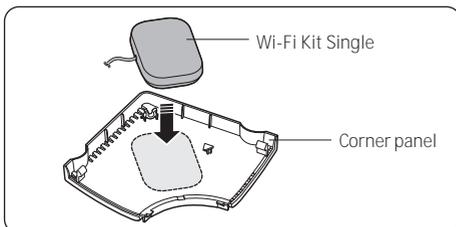


⚠ CAUTION

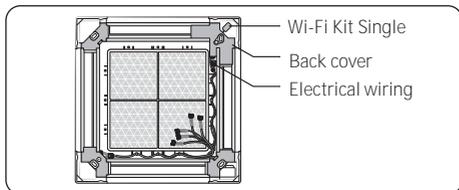
- If it is not installed at the specified position, communication interference or failure may occur. Make sure to install it at the specified position.
- If the panel is already installed on the indoor unit, first remove the panel from the indoor unit before installing the Wi-Fi Kit Single.
For details on how to remove the panel, refer to the panel installation manual.

Attaching the Wi-Fi Kit Single

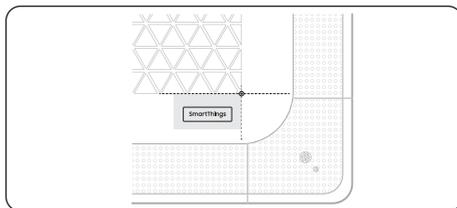
- 1 After separating the corner panel, use the double-sided tape attached to the inside of the Wi-Fi Kit Single and fix it to the corner panel indentation.
 - Arrange the wire in the direction of the arrow of the indentation.
- 2 Arrange the wiring as follows.
 - a Unfasten the single screw (①) on the back cover.
 - b Lift up the back cover in the arrow direction (②), as shown in the figure.



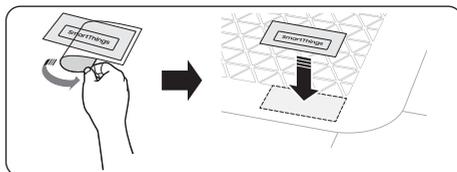
- c Arrange the wiring so that it is placed under the back cover when the cover is in place.
- d Tidy up the WIRE of the Wi-Fi Kit Single along the inside of the panel.
- e Attach the back cover.



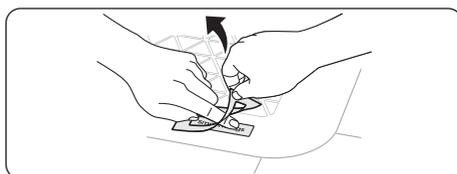
- 6 Attach the SmartThings sticker to the spot specified in the figure below.



- a Remove the back film from the sticker, and then attach the label at the specified spot.

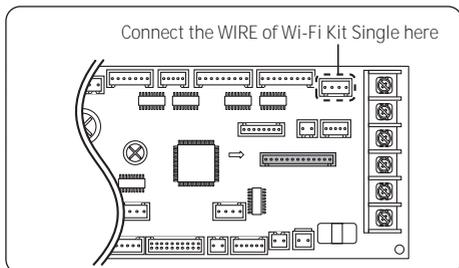


- b Remove the front film while pressing down on the sticker.



CAUTION

- The WIRE may get damaged if it is pinched between the back cover and the panel main body when attaching the back cover. Exercise caution to ensure that the WIRE is not pinched.
 - When attaching the back cover, fix the panel insulation to the original position.
- 3 Attach the panel to the indoor unit.
(For details on how to attach the panel, refer to the panel installation manual.)
 - 4 Open the electric unit cover on the indoor unit, and connect the WIRE of the Wi-Fi Kit Single to the 'WIFI' connector (yellow, 5-pin) at the top right.

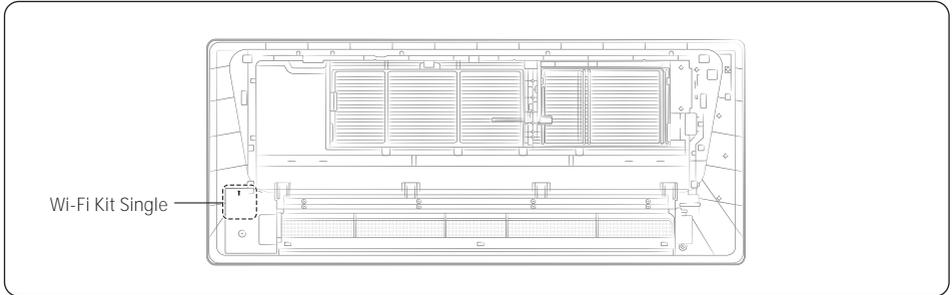


- 5 Close the electric unit cover on the indoor unit.

Installing the Wi-Fi Kit Single

1 Way Cassette (PC1NWFMMUN/PC1BWFMMUN)

Where to install

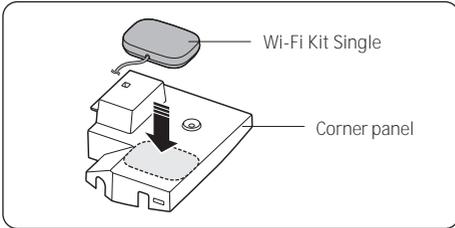


CAUTION

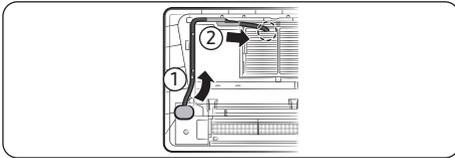
- If it is not installed at the specified position, communication interference or failure may occur. Make sure to install it at the specified position.
- If the panel is already installed on the indoor unit, first remove the panel from the indoor unit before installing the Wi-Fi Kit Single.
For details on how to remove the panel, refer to the panel installation manual.

Attaching the Wi-Fi Kit Single

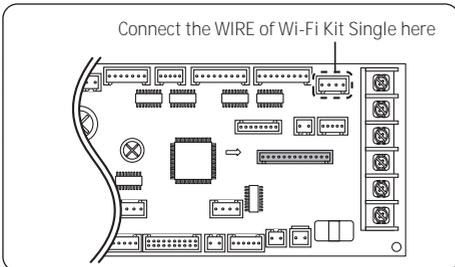
- 1 Use the double-sided tape attached to the inside of the Wi-Fi Kit Single to fix it to the product's lower left indentation.
 - Arrange the wire in the direction of the arrow of the indentation.



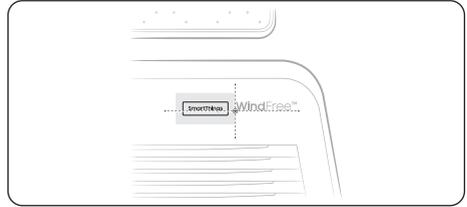
- 2 Tidy up the WIRE of the Wi-Fi Kit Single along the inside of the panel.



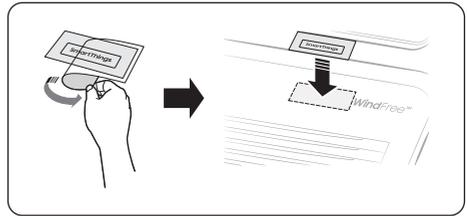
- 3 Attach the panel to the indoor unit.
(For details on how to attach the panel, refer to the panel installation manual.)
- 4 Open the electric unit cover on the indoor unit, and connect the WIRE of the Wi-Fi Kit Single to the 'WIFI' connector (yellow, 5-pin) at the top right.



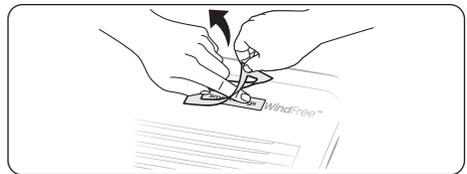
- 5 Close the electric unit cover on the indoor unit.
- 6 Attach the SmartThings sticker to the spot specified in the figure below.



- a Remove the back film from the sticker, and then attach the label at the specified spot.



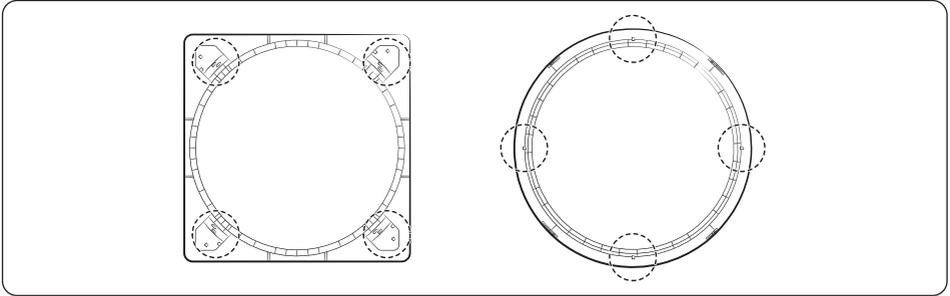
- b Remove the front film while pressing down on the sticker.



Installing the Wi-Fi Kit Single

360 Cassette (PC4NUNMUN/PC4NBNMUN/PC4NUDMUN/PC4NBDMUN)

Where to install



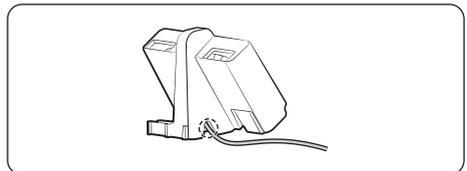
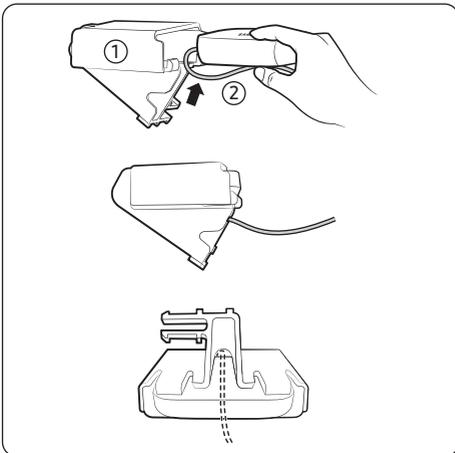
※ The 360 Panel (Circle/Square) can be installed in 4 different locations.

Attaching the Wi-Fi Kit Single

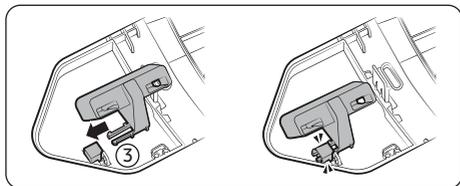
- 1 Attach the Wi-Fi Kit Single to the CASE(①) enclosed.
 - a Check the location of the Samsung logo and the 'U' trap form of the WIRE(②) during assembly.

CAUTION

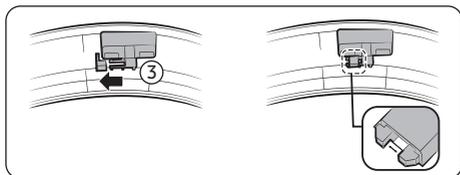
- Be careful that the Wire does not get pinched between the Case and the Wi-Fi Kit Single.
 - Make sure that the Wire is located at the centre of the space.
- 2 Arrange the WIRE so that it comes to the space on side of the CASE.



- 3 Fit the Case in the 360 Cassette panel.
- a Fasten the HOOK(③) in the direction of the arrow as shown in the picture.
- Square panel



- Circle panel

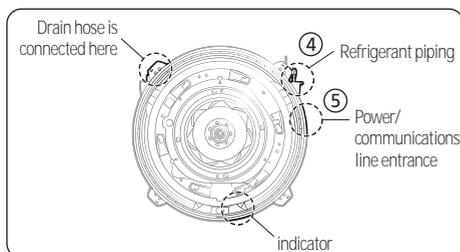


CAUTION

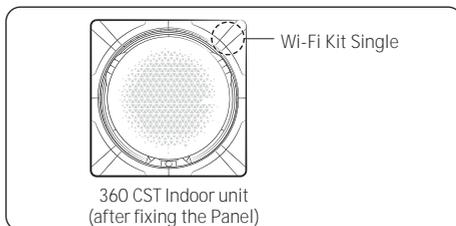
- Fix until the 'click' sound is heard.
- Make sure that there is a gap in the edges of the Hook.

- 4 Attach the panel to the indoor unit.
(For details on how to assemble the panel, refer to the panel installation manual.)

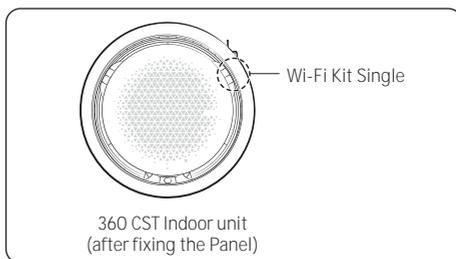
- a Assemble the Wi-Fi Kit Single until it comes to the following location.



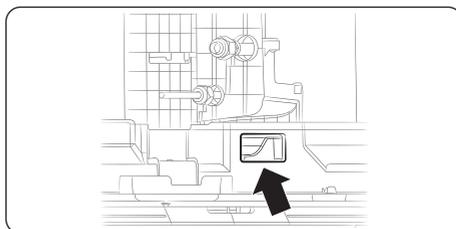
- Square panel: Assemble so that the Wi-Fi Kit Single comes to the Refrigerant piping(④) location of the indoor unit.



- Circle panel: Assemble so that the Wi-Fi Kit Single comes to the power/communications line entrance(⑤) of the indoor unit.

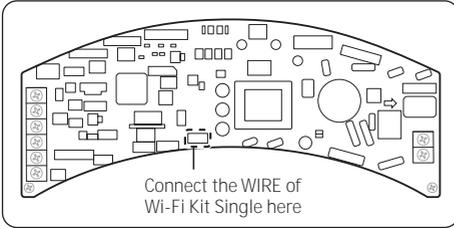


- b Insert the Wire through the power/communications line entrance of the indoor unit and tidy up the wire in the space inside the indoor unit.

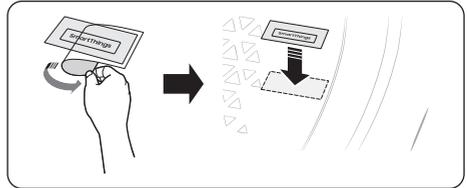


Installing the Wi-Fi Kit Single

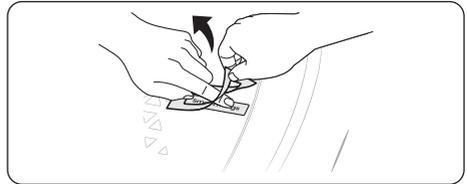
- 5 Open the insides of the electric equipment part of the indoor unit and connect the Wire of the Wi-Fi Kit Single to the "WiFi" connector (yellow color, 5-Pin).



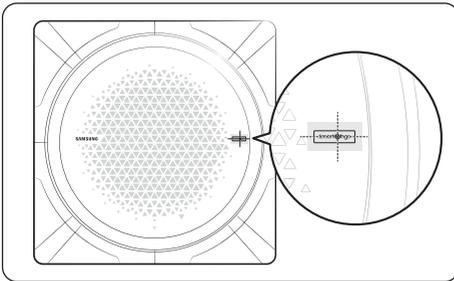
- a Remove the back film from the sticker, and then attach the label at the specified spot.



- b Remove the front film while pressing down on the sticker.



- 6 After equipping with the grill, attach the Smart Things sticker in the location as shown in the picture below.
- Attach the logo, centered in the empty space on the right.
 - Ensure that the logo is at the same height as the top of the left triangle.



SmartThings app

To use the SmartThings app, connect the product to the network in the sequence described below. The images shown may differ depending on your smartphone model, OS version and manufacturer. You need to set up the Wi-Fi access point only when connecting the product to a Wi-Fi network. Once the product is connected, you can use the SmartThings app via Wi-Fi, 3G, LTE or more wireless networks.

1 Checking the power connections

Check if the power is connected to the product and the access point.

2 Setting up and connecting to a Wi-Fi access point using your smartphone

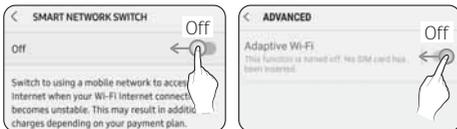
1 To connect the product to a Wi-Fi network, turn on Wi-Fi at "Settings > Wi-Fi", and then select the access point to connect to

- Only alphanumeric characters are supported for wireless access point names (SSIDs). If an SSID has a special character, rename it before connecting to it.
- Wi-Fi access point: 2.4 GHz Wi-Fi access point only.



2 Turning off "SMART NETWORK SWITCH" at "Settings > Wi-Fi" on your Smartphone

- If "SMART NETWORK SWITCH" or "Adaptive Wi-Fi" is turned on, you cannot connect to the network. Be sure to turn off these functions before connecting to the network.



NOTE

- The setup may differ depending on your smartphone model, OS version and manufacturer.

3 Checking the Internet connectivity

- After connecting to Wi-Fi, check that your smartphone is connected to the Internet.

NOTE

- A firewall may prevent your smartphone from connecting to the Internet. In this case, contact your Internet service provider for troubleshooting.

3 Downloading the SmartThings app and registering your Samsung account

1 Downloading the SmartThings app

- Search for "SmartThings" on Play Store or App Store, and download the SmartThings app to your smartphone.
- If the SmartThings app is already installed on your smartphone, update it to the latest version.



NOTE

- The SmartThings app supports Android OS 7.0 or later (with at least 2 GB RAM) and iOS 12.0 or later. The app is optimized for iPhone 6s or later and Samsung smartphones (Galaxy S and Note series). The updates of the SmartThings app or the functions supported by it may be discontinued for the previously supported OS versions due to the reasons such as usability and security.
- The SmartThings app may change without prior notice to improve product usability and performance.

2 Registering your Samsung account

- A Samsung account is required to use the SmartThings app. To create your Samsung account and log in to your account, follow the instructions displayed on the SmartThings app. You do not need to install an additional app.

SmartThings app

NOTE

- If you already have a Samsung account, log in to the account. When your smartphone is a Samsung device and you have a Samsung account, your smartphone is automatically logged in to your account.
- If you log in from a smartphone produced for a different country, you need to log in with its country code when you create your Samsung account, and the SmartThings app may not be used on some smartphones.

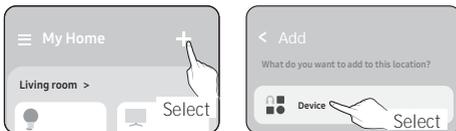
4 Connecting the SmartThings app to your product

1 Selecting the product to connect to

- 1) After the SmartThings app is started, select "ADD NOW" when a pop-up window saying that a product to connect to is found appears.

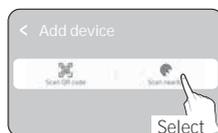
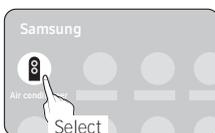


- 2) If the pop-up window does not appear, select "+", "Add" and then "Device".



You can add a product you want to connect to by selecting it manually or by selecting "Scan nearby".

- Select manually: Samsung > Air conditioner > System air conditioner (Wi-Fi Kit Single)
- Scan nearby: [System a/c] Samsung



2 Connecting the SmartThings app to your product

- Follow the instructions displayed on the SmartThings app to connect to your product.
- If a message appears saying 'Press the [AP] button' while connection is in progress, press and hold the [Timer] button on the remote control (separately purchasable / model name: AR-EH**U or AR-KH**U) for more than 5 seconds.
- For information on how to use the SmartThings app, select the How To menu on the app.

NOTE

- If any pop-window appears on the top of the smartphone while connecting to your product, do not select it.
- If a Samsung account-related country error occurs during connecting to your product, log out of your current Samsung account, log in to your previous Samsung account, and then delete all devices that have been connected previously. Then, log in to your current Samsung account again, and then configure the settings.
- If a failure message appears while adding a device, see "Setting up and connecting to a Wi-Fi access point using your smartphone" on page 15. The connection may fail temporarily due to an installation location problem of the access point or other problems.
- If the number of added indoor units is incorrect after adding devices, run the tracking again and then try adding the devices again.
- For security protocols for wireless/wired access points, WPA-PSK and WPA2-PSK are recommended. For authentication methods, AES is recommended. New Wi-Fi authentication specifications and Wi-Fi non-standard authentication methods are not supported.
- If your Internet service provider permanently have registered the MAC address (a unique identification number) of your PC or modem, you may not be able to connect your product to the Internet. Contact your Internet service provider and ask how to connect devices other than your PC (such as an air conditioner and an air purifier) to the Internet.

Starting the system air conditioner app

Controlling the air conditioner

Below are functions that you can control or monitor using the Wi-Fi adapter.

Category	Function	Description
Monitoring	Desired Temp	Displays the desired temperature.
	Current Temp	Displays the current temperature.
	Filter warning	An alert is generated after the filter time elapses.
	Defrost	Appears in the defrost state.
	Energy monitor	Displays the power usage on the daily/weekly/monthly basis.
Control	Power supply	Turn on or off the air conditioner.
	Operation mode	Select the desired operation mode.
	Temperature control	Adjust the desired temperature.
	Fan speed	Adjust the desired fan speed.
	Air flow direction	Adjust the desired air flow direction.
	WindFree	Enables/disables the WindFree function.
	Long	Enables/disables the Long function.
	Clean	Enables/disables the Clean function.
	Motion detection	Enables/disables the motion detection function.
	Direct/indirect wind	Select any of direct wind and indirect wind while in motion detection.
	Ionizer	Enables/disables the Ionizer function.
	Reset Filter	Upon a filter alert, you can initialize the filter reset time.
	Ventilation	Enables/disables the Ventilation.
	Hot water	Enables/disables the Hot water function.
Dual Set Point	Enables/disables the DSP function. - DSP: It allows users to set heating and cooling desire temperature simultaneously.	

NOTE

- Available features may differ depending on the model.
- Some features may not be available according to the specifications of the indoor unit.
- For more information about the SmartThings app, details can be found in SmartThings app.

Troubleshooting

Check the following before requesting a service from the Service Center.

Symptom		Measure
The installed SmartThings app cannot access the air conditioner.		<ul style="list-style-type: none"> Make sure you have connected the air conditioner to a wireless router.
I cannot log in with my Samsung account.		<ul style="list-style-type: none"> Try recovering your ID and password from the Samsung account page.
Adding device(s)	A failure message appears while adding devices.	<ul style="list-style-type: none"> This may fail temporarily due to the distance from the router or some interferences. Try again later.
	I found a failure message in 0 to 1 percent of device addition process.	<ul style="list-style-type: none"> You cannot add any device without deleting it once the device has already been added to the SmartThings app. To add the connected device again, first remove it and then proceed with the process.
	I found a failure message in 99 percent of device addition process.	<ul style="list-style-type: none"> If you are using a Samsung smartphone, the server may not be connected temporarily. Restart the SmartThings app and then try adding the device again. If your phone is not a Samsung product, check that you have entered a wrong Wi-Fi password. Try adding devices again.
	The app displays an authorization failure before pressing the user agreement button.	<ul style="list-style-type: none"> Check if a Wi-Fi Kit Single is already connected from the SmartThings app. When there are devices added, first remove them and try again.
	The app displays an authorization failure on the user agreement screen.	<ul style="list-style-type: none"> Make sure to press the [Power] button within 2 minutes after the screen appears. Try adding devices again.
	The screen requests to initialize the user account.	<ul style="list-style-type: none"> This happens when the user has already added devices. Follow the instructions provided in the SmartThings app.
After adding a device, the SmartThings app displays the disconnection event.		<ul style="list-style-type: none"> This happens when a device is being added to the server or it is temporarily disconnected from the router. End the SmartThings app and then launch it again.

Specifications

Wi-Fi	
Frequency Range	Transmitter Power (Max)
2412 - 2472 MHZ	17 dBm

* The product supports the IEEE802.11 b/g/n, Soft-AP communication protocol.
(Samsung recommends IEEE802.11n.)

Open Source Announcement

The software included in this product contains open source software.

The following URL http://opensource.samsung.com/opensource/SMART_TP2_0/seq/0 leads to open source license information as related to this product.



Reference

1) FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2) FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3) FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

4) FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(IC)

1) Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

1) Industry Canada Radiation Exposure Statement (Déclaration d'exposition aux radiations)

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.



SUPPLIER'S DECLARATION OF CONFORMITY

According to Sec. 2.1077, 47 CFR of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Equipment EUT Type	Wi-Fi Kit Single
Kind of product	Accessory for Air Conditioner
Trade Name	Samsung
Model	MIM-H14UN
Variant Model	- (The symbol ** can be any alphanumeric character.)
Applied Rules	47 CFR Part 15, Subpart B / ANSI C63.4-2014
	ICES-003 Issue 6
Manufacturer	Samsung Electronics Co., Ltd. (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 16677 Korea

We hereby declare that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.

U.S. RESPONSIBLE PARTY	Wi-Fi Kit Single
CONTACT PERSON	 <i>Chandra Gollapudi</i> Regulatory and Compliance Manager
	E-Mail: cg.gollapudi@samsungvac.com Tel: 1-817-838-6066 Fax: 1-817-490-5054

Memo

QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
AMERICA	888-699-6067 (Samsung HVAC)	www.samsunghvac.com