

SAMSUNG 品牌
英文说明书

技术要求

- 1. 纸张边角应裁剪整齐；印刷字迹清晰整洁、内容正确，没有明显的拖墨和重影等缺陷；
- 2. 纸质为80g/m²；
- 3. 未注公差按GB/T1804-c级；
- 4. 版面为A5；
- 5. 颜色要求：黑色为BLACK；
- 6. 装订要求；封面、内容、封底；胶装
- 7. 在封底右下角印上采购下单的物料编码和（版本号），且字体为Arial，字高为1.8mm（7号字）；
且在物料编码前增加供应商拼音缩写，例：锦美表示为JM-XXXXXXXXXXXX. 第一次更改
JM-XXXXXXXXXXXX（A），第二次更改JM-XXXXXXXXXXXX（B）...依次往后推.

						印刷专用件		211337690		
B	HWGG..1505-0082			黄春梅	2015.05.18					
A	HWGG..1505-0043			黄春梅	2015.05.12	英文说明书		物料编码	质 量	比 例
标 记	更改文件号			签 字	日 期					
设 计	黄春梅	2015.04.30	工 艺	李茂新		书 写 纸		TCL空调器（中山）有限公司		
校 对	董乔娟		标准化	刘金利						
审 核	田亮		批 准	黄 敏		共 1 张	第 1 张			



AR**JR** Series

Air Conditioner user & installation manual

imagine the possibilities

Thank you for purchasing this Samsung product.

SAMSUNG

Features of your new air conditioner

Cool Summer Offer

On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. Beat the heat with your own air conditioner this summer.

Fast cooling

If you want the strong and cool air, just select Fast function! It will get you the strongest air!

Single User

Use Single User function when you are alone at home. This function will set the temperature range limit to help you save energy while the air conditioner is operating in Cool mode.

good'sleep function

good'sleep function will allow you to have deep, good night's sleep by adjusting the temperature, fan speed and air flow direction.

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Safety precautions

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

 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.		
	Follow directions.		Cut-off the power supply.
	Do NOT attempt.		Do NOT disassemble.
	Make sure the machine is grounded to prevent electric shock.		

FOR INSTALLATION

WARNING

-  **Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.**
 - ▶ Extending the power line may result in electric shock or fire.
 - ▶ Do not use an electric transformer. It may result in electric shock or fire.
 - ▶ If the voltage/frequency/rated current condition is different, it may cause fire.
- The installation of this appliance must be performed by a qualified technician or service company.**
 - ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury and may also void warranty on the installed product.
- Install a Isolation Switch next to the Air Conditioner (but not on the panels of the Air Conditioner) and circuit breaker dedicated to the air conditioner.**
 - ▶ Failing to do so may result in electric shock or fire.
- Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.**
 - ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product.

- ⊘ **Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.**
 - ▶ This may result in electric shock or fire.
- Never install the outdoor unit in a location such as on a high external wall where it could fall.**
 - ▶ If the outdoor unit falls, it may result in injury, death or property damage.
- ⚡ **This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**
 - ▶ Failure to do so may result in electric shock, fire, and explosion.
 - ▶ Make sure to use a socket-outlet with ground.

FOR INSTALLATION

⚠ CAUTION

- ❗ **Install your appliance on a level and hard floor that can support its weight.**
 - ▶ Failing to do so may result in abnormal vibrations, noise, or problems with the product.
- Install the draining hose properly so that water is drained correctly.**
 - ▶ Failing to do so may result in water overflowing and property damage. Avoid adding drain to waste pipes as odours may arise in the future.
- When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.**
 - ▶ The water generated during the heating operation by the outdoor unit may overflow and result in property damage.
In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

FOR POWER SUPPLY

⚠ WARNING

- ❗ **When the circuit breaker is damaged, contact your nearest service center.**
- ⊘ **Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.**
 - ▶ This may result in electric shock or fire.

Safety precautions

FOR POWER SUPPLY

⚠ CAUTION

- ⚡ **When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**
 - ▶ Failing to do so may result in electric shock or fire.

FOR USING

⚠ WARNING

- ❗ **If the appliance is flooded, please contact your nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.**If the appliance generates a strange noise, a burning smell or smoke, cut-off the power supply immediately and contact the nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.**In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.**
 - ▶ Do not use a ventilating fan.
 - ▶ A spark may result in an explosion or fire.**To reinstall the air conditioner, please contact your nearest service center.**
 - ▶ Failing to do so may result in problems with the product, water leakage, electric shock, or fire.
 - ▶ A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.
 - ▶ Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.
- ⊘ **Do not touch the circuit breaker with wet hands.**
 - ▶ This may result in electric shock.**Do not turn the air conditioner off with the circuit breaker while it is operating.**
 - ▶ Turning the air conditioner off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.**After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.**
 - ▶ If a child places a bag over its head, it may result in suffocation.

- ⊘ **Do not touch the air flow blade with your hands or fingers during the heating operation.**
 - ▶ This may result in electric shock or burns.
- Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.**
 - ▶ Take special care that children do not injure themselves by inserting their fingers into the product.
- Do not strike or pull the air conditioner with excessive force.**
 - ▶ This may result in fire, injury, or problems with the product.
- Do not place an object near the outdoor unit that allows children to climb onto the machine.**
 - ▶ This may result in children seriously injuring themselves.
- Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.**
 - ▶ Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.
- ⚠ **If any foreign substance such as water has entered the appliance, cut-off the power supply and contact the nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.
- ⊘ **Do not attempt to repair, disassemble, or modify the appliance yourself.**
 - ▶ Do not use any fuse (such as cooper, steel wire, etc.)other than the standard fuse.
 - ▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

Safety precautions

FOR USING

⚠ CAUTION

- ❗ **Do not place objects or devices under the indoor unit.**
 - ▶ Water dripping from the indoor unit may result in fire or property damage.
(example electrical appliances)**Check that the installation frame of the outdoor unit is not broken at least once a year.**
 - ▶ Failing to do so may result in injury, death or property damage.**Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.**
- ⊘ **Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**
 - ▶ This may result in electric shock, fire, problems with the product, or injury.**Do not operate the appliance with wet hands.**
 - ▶ This may result in electric shock.**Do not spray volatile material such as insecticide onto the surface of the appliance.**
 - ▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.**Do not drink the water from the air conditioner.**
 - ▶ The water may be harmful to humans.**Do not apply a strong impact to the remote controller and do not disassemble the remote controller.****Do not touch the pipes connected with the product.**
 - ▶ This may result in burns or injury.**Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**
 - ▶ This may result in property damage.**Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.**
 - ▶ This may result in harm to humans, animals or plants.

- ⊘ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

FOR CLEANING

⚠ WARNING

- ⊘ Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.
 - ▶ This may result in discoloration, deformation, damage, electric shock or fire.**Before cleaning or performing maintenance, cut-off the power supply and wait until the fan stops.**
 - ▶ Failing to do so may result in electric shock or fire.

FOR CLEANING

⚠ CAUTION

- ❗ **Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**
 - ▶ This should be done by a qualified technician please contact your installer or service center.
- ⊘ **Do not clean the inside of the air conditioner by yourself.**
 - ▶ For cleaning inside the appliance, contact your nearest service center.
 - ▶ When cleaning the internal filter, refer to the descriptions in the 'Cleaning the air conditioner' section.
 - ▶ Failure to do so may result in damage, electric shock or fire.

Checking before use

Operation ranges

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

Mode	Indoor temperature	Outdoor temperature	Indoor humidity
Cooling	16 °C~31 °C	16 °C~43 °C	Relative humidity 80% or less
Dry	16 °C~31 °C	16 °C~43 °C	-

- If the air conditioner operates in cooling mode for long period of time in high humidity area, dew may be formed.

Maintaining your air conditioner

Internal protections via the unit control system

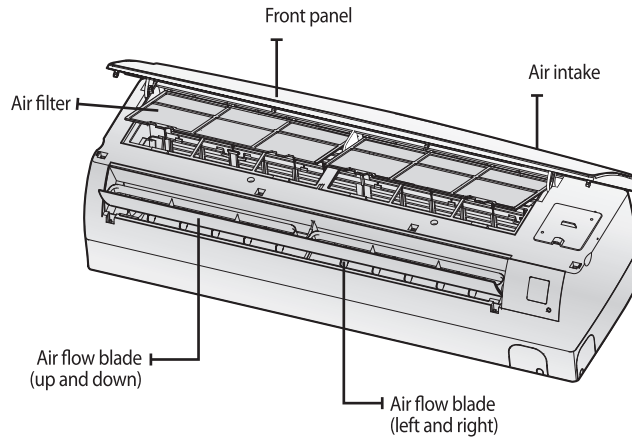
- This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Protect compressor	The air conditioner does not start operating immediately to help protect the compressor of the outdoor unit after it has been started.

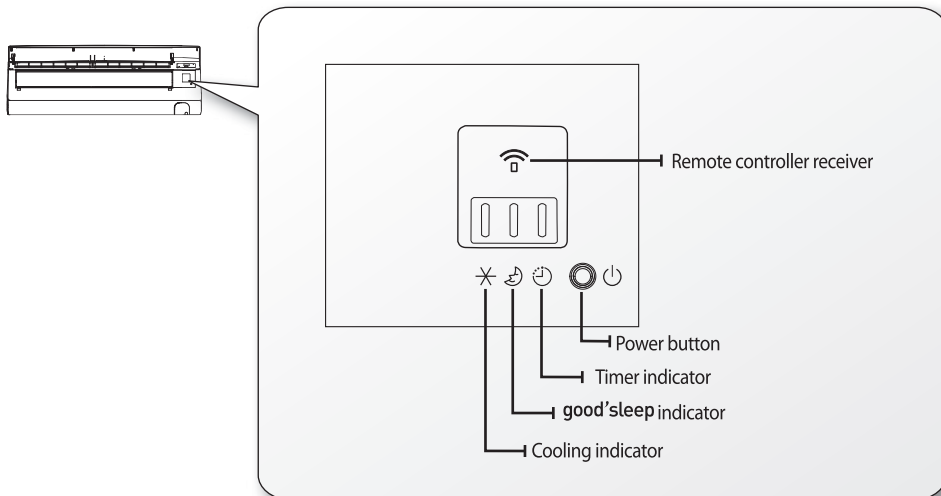
Checking the name of the parts

Your air conditioner may slightly look different from illustration shown below depending on your model.

Main parts



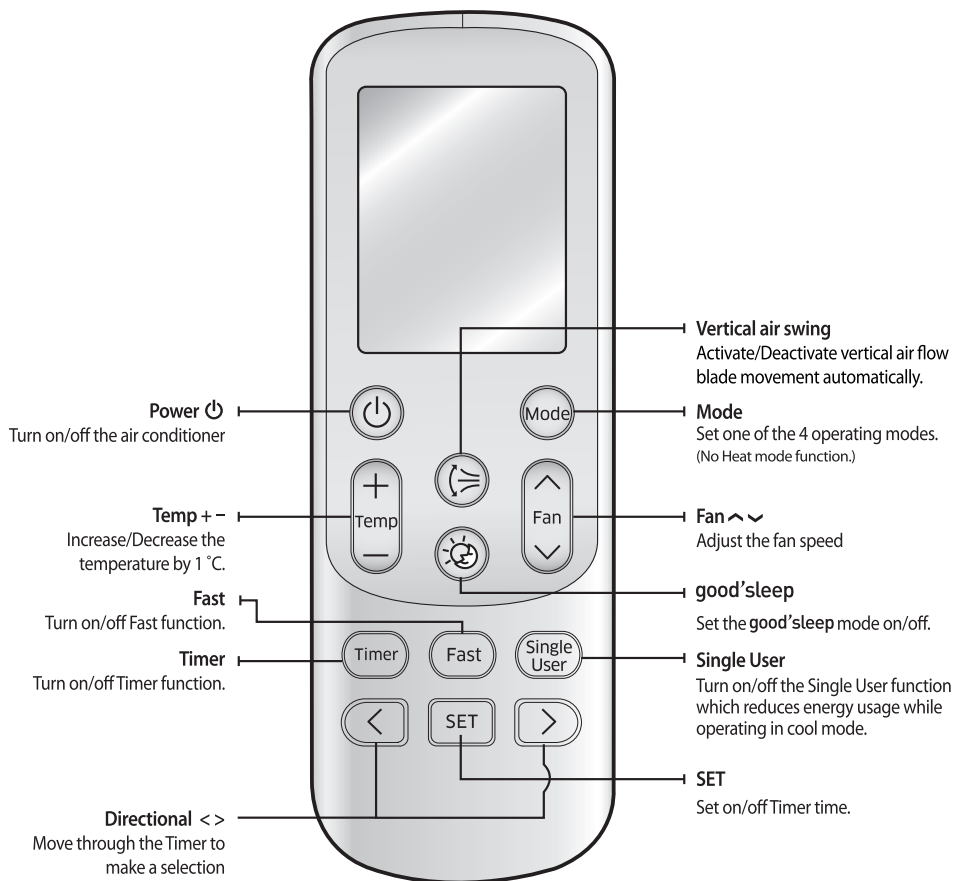
Display



Checking the remote controller

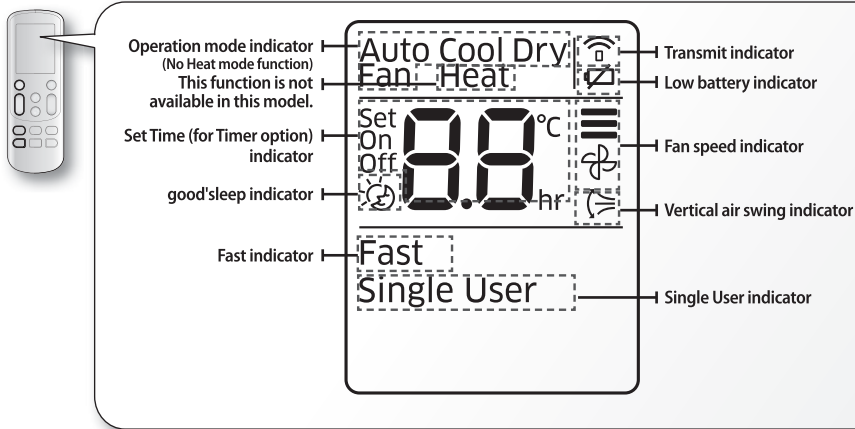
- Point the remote controller towards the remote controller receiver of the indoor unit.
- When you properly press the button on the remote controller, you will hear beep sound from the indoor unit and a transmit indicator() appears on the remote controller display.

Remote controller buttons



- Make sure that the water does not get to the remote controller.

Remote controller display



Low Battery warning

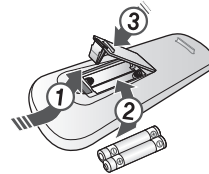
When the battery is exhausted, (🔋) will be displayed in the remote controller display. When the icon appears, change the batteries. The remote controller requires two 1.5 V AAA type batteries.

Storing the remote controller

When you do not use the remote controller for long time, remove the batteries from the remote controller and store it.

Inserting the batteries

1. Push the lever as arrow indicates on the rear side of the remote controller and pull up.
2. Insert two AAA batteries.
Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. Close the cover by place it back to its original position.
You should hear click sound when the cover is locked properly.



- The signal may not be received properly if electronic fluorescent lamps such as inverter fluorescent lamps are operating in the same space.
- If other electrical products operate by the remote controller, call your nearest contact center.

Basic function

Basic operation is an operation mode that can be selected by pressing the **Mode** button.

Auto

In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature.

- If you press **Temp + -** button, it will decrease or increase by 1 °C, and remote display indicates "1", "2", "-1", "-2". When remote controller arrived to the set limit, it can't be operate again though the indoor unit can receive the signal.

Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

- If current outside temperature is much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.
- When the Cool mode is set, cooling indicator() will be displayed on the indoor unit display.

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air. Dry mode makes the air feel refreshing in a humid climate.

Fan

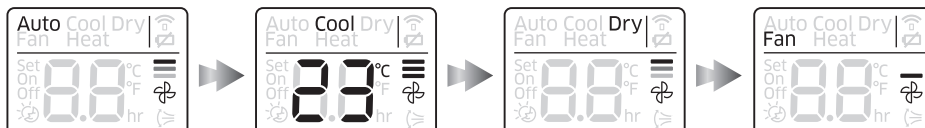
Fan mode can be selected to circulate your room. Fan mode will be helpful to refresh the stale air in your room.

Basic function

Press the  button to turn on the air conditioner.

Press the  button to set the operating mode.

- Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry and Fan.



Press the  button to set the desired fan speed.

Auto	 (Auto),  (Low),  (Med),  (High)
Cool	 (Auto),  (Low),  (Med),  (High)
Dry	 (Auto)
Fan	 (Low),  (Med),  (High)

Press the  button to adjust the temperature.

Auto	Temperature doesn't display. If you press Temp + - button, it will decrease or increase by 1 °C, and remote display indicates "1", "2", "-1", "-2".
Cool	You can adjust the set temperature by 1 °C within the range of 16 °C~31 °C.
Dry	Temperature adjustment is not possible.
Fan	Temperature adjustment is not possible.

Airflow direction control

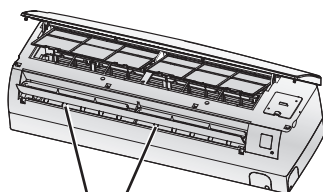
Adjust the air flow direction properly otherwise it might cause discomfort or cause uneven room temperatures.
Adjust the vertical louver using the remote controller.

Vertical air flow



- ▶ Press the **Vertical air swing** button on the remote controller. Air swing indicator will be on the remote controller display and air flow blades move up and down continuously to circulate the air.
- ▶ Press the **Vertical air swing** button on the remote controller again, to keep the air flow direction in a constant position.
- ▶ If you adjust the vertical air flow blade manually, it may not close completely when you turn off the air conditioner.

Horizontal air flow



Blade pin lever

Make sure one of the blade pin lever that stick out of the air flow blades are not broken.

- ▶ **Move the deflector rod manually to adjust the air flow in the direction you prefer.**

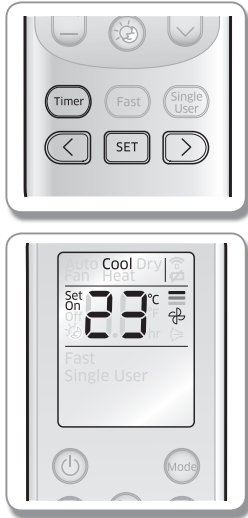


- Be extremely careful with your fingers while adjusting the Horizontal air flow direction.
There is a potential risk of personal injury when the unit is mishandled.

Setting the On/Off timer

Setting the On timer

When the air conditioner is off;



Remote controller display

1. Press the **Timer** button.
 - (On) indicator will keep blinking and you can set the time.
2. Press the button to set the time.
 - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~24 hours.
 - Time can be set from minimum 30 minutes to maximum 24 hours.
3. Press the **SET** button to complete the On timer setting.
 - (On) indicator and the set time of the timer will be displayed on the remote controller display and the Timer indicator (⌚) will be displayed on the indoor unit display.
 - On timer setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (On) indicator on the remote controller display and the Timer indicator on the indoor unit display.

Cancel ▶ Press the **Timer** button again.

Additional options available in On time

	You can select from Auto/Cool/Dry/Fan.
	You can set the fan speed after selecting Auto/Cool/Fan mode
	You can set the temperature after selecting the operation mode. Temperature adjustment is available when Auto/Cool mode is selected.



- After 3 seconds from the completion of the On timer setting, only (On) indicator will remain displayed on the remote controller display of Auto/Dry/Fan mode.
- If you press the **Power** button on the indoor unit after setting the On timer from the remote controller, Timer indicator on the indoor unit display will disappear and the On timer will be cancelled.

Setting the On/Off timer

Setting the Off timer

When the air conditioner is on;



Remote controller display

1. Press the **Timer** button.
 - (Off) indicator will keep blinking and you can set the time.
2. Press the **<** **>** button to set the time.
 - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~24 hours.
 - Time can be set from minimum 30 minutes to maximum 24 hours.
3. Press the **SET** button to complete the Off timer setting.
 - (Off) indicator and the set time of the timer will be displayed on the remote controller display and Timer indicator (⌚) will be displayed on the indoor unit display.
 - Off timer setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (Off) indicator on the remote controller display and the Timer indicator on the indoor unit display.

Cancel ▶ Press the **Timer** button again.

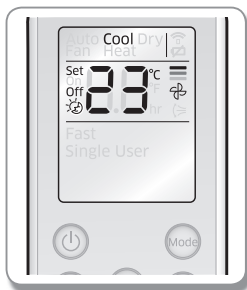
good'sleep mode

When the air conditioner is operating in Auto/Cool mode;



1. Press the  button, the air conditioner operates in **good'sleep** mode.
 -  indicator will be displayed on the remote controller display and  indicator on the indoor unit display.
 - Fan speed will be adjusted automatically.

Cancel ▶ Press the  button again.



Remote controller display

Additional options available in good'sleep mode



You can adjust the set temperature by 1 °C within the range of 16 °C~31 °C in Cool mode.



NOTE

- If the MODE/Power button is selected while **good'sleep** function is on, corresponding function will be cancelled.
- Recommended set temperature is between 25 °C ~ 27 °C for cooling.
- If the set temperature is too low, you may feel cold during sleep or catch a cold.

Using the Fast function

You can set the Fast function to provide fast and powerful cooling.

When the air conditioner is operating in Cool/Dry/Fan mode;



1. Press the **Fast** button.
 - (Fast) indicator appears and Fast function begins. Fan speed will be adjusted in high speed.
 - When the Fast function is on, vertical air swing  can be adjusted.

Cancel ▶ Press the **Fast** button again.



Remote controller display



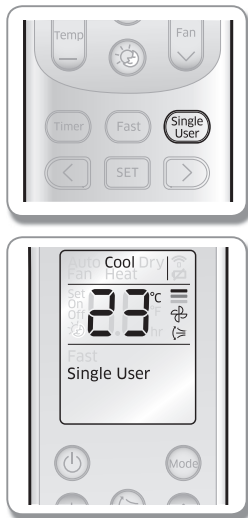
NOTE

- While the Fast function is activating, **good'sleep** function can't be operated.
- If the Single user/ Temp + - / Fan   function is selected while Fast function is on, corresponding function will be cancelled.

Using the Single user function

This function will reduce the energy usage while the air conditioner is operating in Cool mode.

When the air conditioner is operating in Cool mode;



Remote controller display

1. Press the button.
- (Single user) indicator appears and Single user function begins.

Cancel ▶ Press the button again.



NOTE

- Single user function is only available in Cool mode.
- If the Fast function is selected while Single user function is on, corresponding function will be cancelled.
- If the Single User function is activating, **good'sleep** function also can be selected.

Additional options available in Single user function

	You can adjust the set temperature by 1 °C within the range of 16 °C ~ 31 °C in Cool mode.
	(Auto), (Low), (Med), (High) can be selected.
	Vertical air swing can be selected.

Cleaning the air conditioner



CAUTION

- **Make sure to turn off the power of the indoor unit and cut-off the power supply before cleaning the air conditioner.**

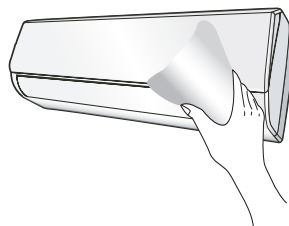
Cleaning the indoor unit

- ▶ Wipe the surface of the unit with a slightly damp micro fiber cloth when needed.



NOTE

- Contact the service center when you clean the indoor unit heat exchanger because it needs to be disassembled.
- Since the panel of the indoor unit is easily scratched, you should use a micro fiber cloth to clean the panel. When you use the micro fiber cloth, slightly dampen the cloth and remove any debris on the cloth to avoid scratches.



CAUTION

- Do not clean the display using alkaline detergent.
- Do not use sulfuric acid, hydrochloric acid, organic solvents (such as thinner, kerosene and acetone etc.) to clean the surface of the product or put any stickers on it. They may damage the surface of the air conditioner.

Cleaning the outdoor unit heat exchanger

- ▶ When dust accumulates on the heat exchanger, it may decrease cooling performance. Therefore, clean it regularly.
- ▶ Spray water to clean the dust.



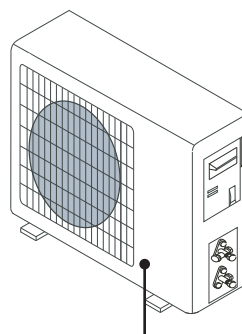
NOTE

- If it is difficult to clean the outdoor unit heat exchanger on your own, contact service center.



CAUTION

- Be careful with the sharp edges on the outdoor unit heat exchanger.



Heat exchanger

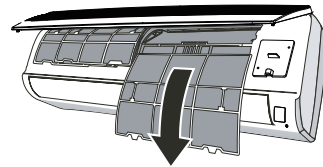
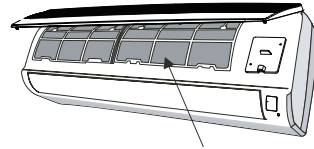
(Illustration may differ slightly depending on the models)

Removing the Air filter

1. Open the front panel following the direction of the arrow.



2. Keeping the front panel raised with one hand, take out the air filter with the other hand.



3. Install the air filter back into position.
4. Close the front panel.

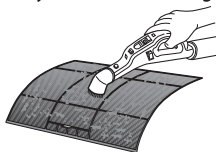
Cleaning the air conditioner

Cleaning the air filter

Washable foam based air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

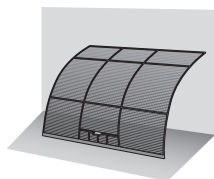
Remove the Air filter from the main body.

Clean the Air filter with a vacuum cleaner or soft brush.
If dust is too heavy, rinse it with running water.



Insert the Air filter back in its original position.

Dry the Air filter in a ventilated area.



- Clean the air freshening filter at least once a month.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.
- If the filter is soiled with oil, it can be washed with warm water (not exceeding 45°C). Leave to dry in a cool and dry place.

Maintaining the air conditioner

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and cut-off the power supply. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Description	Every 1 months
Clean the air filter (1)	●



- (1) The described operations should be performed more frequently if the area of installation is very dusty.
- (2) These operations must always be performed by qualified personnel. For more detailed information, see the installation part in the manual.

Troubleshooting

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not work at all.	• Check power status and then operate the air conditioner again. • Plug in or switch on the circuit breaker and then operate the air conditioner again. • Ensure Isolator is switch on.
The temperature adjustment is not working.	• Check if you have selected Dry/Fan/Fast mode. In these modes, set temperature is set to auto and you cannot adjust the temperature.
Cool air does not come out of the air conditioner.	• Check if the set temperature is higher(during Cool mode) than the current temperature. Press the Temp + or - button on the remote controller to change the set temperature. • Check if the Air filter is blocked by dirt. If there is a lot of dust on the Air filter, cooling performance may decrease. Clean them frequently. • Check if the outdoor unit is covered or installed near the obstacle. Take the cover off and take the obstacle away. • Check if the air conditioner is operating in defrost mode. When the ice formed in winter or the outdoor temperature is too low, the air conditioner operates in defrost mode automatically. In defrost mode, indoor fan stops and warm air does not come out. • If the doors or windows are open, it may cause bad cooling performance. Close the doors and windows. • Check if the air conditioner has just been turned on after stopping cooling operation. In this case, just a fan will run to protect the outdoor unit compressor. • Check if the pipe length is too long. When the pipe length exceeds maximum allowable pipe length, cooling performance may decrease.

PROBLEM	SOLUTION
Fan speed adjustment is not working.	• Check if you have selected Dry/good'sleep mode. In these mode, fan speed is set to Auto and you cannot adjust the fan speed.
Remote controller is not working.	• Check if your batteries are depleted. • Make sure nothing is blocking your remote controller sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
Timer function does not set.	• Check if you press the Set button on the remote controller after you have set the time.
The indicator is blinking continuously.	• Press the Power  button or disconnect the power plug/ switch off the auxiliary power switch. If the indicator is still blinking, contact the service center.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area. Ventilate the room or operate the air conditioner in Fan mode for 1~2 hours. (We do not use smelly components in the air conditioner.) • Check the Drains have been cleared Regular Maintenance.
Error is indicated.	• When an indoor unit indicator blinks, contact the nearest service center. Please ensure the error code is passed onto the service center when booking the service call.
Noise is generated.	• Depending on the status of the air conditioner usage, noise can be heard when refrigerant flow movement changes. It is normal.
Water is dropping from the outdoor unit piping connection.	• Water may be generated because of the temperature difference. It is normal.

Safety precautions

Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

General information

- ▶ Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- ▶ For maximum safety, installers should always carefully read the following warnings.
- ▶ Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ▶ This manual explains how to install an indoor unit with a split system with two SAMSUNG units.
The use of other types of units with different control systems may damage the units and invalidate the warranty.
The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ▶ This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), and the Electromagnetic Compatibility Directive (2004/108/EC) of the European Union.
- ▶ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- ▶ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ▶ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- ▶ In order to help prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- ▶ Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- ▶ The unit contains moving parts, which should always be kept out of the reach of children.
- ▶ Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- ▶ Do not place containers with liquids or other objects on the unit.
- ▶ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ▶ The packing material and exhaust batteries of the remote controller(optional) must be disposed of in accordance with current laws.
- ▶ The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

Installing the unit

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines.
Always disassemble the electric lines before the refrigerant tubes.

- ▶ Upon receipt, inspect the product to verify that it has not been damaged during transport.
If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)

- ▶ After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- ▶ Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- ▶ To help prevent injury when accidentally touching the indoor unit fan, install the indoor unit at least 2.5 m above the floor.
- ▶ The air conditioner should be used only for the applications for which it has been designed : the indoor unit is not suitable to be installed in areas used for laundry.
- ▶ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.
For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Power supply line, fuse or circuit breaker

- ▶ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- ▶ Always verify that a suitable grounding connection is available.
- ▶ Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- ▶ Always verify that the cut-off and protection switches are suitably dimensioned.
- ▶ Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- ▶ Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme.
Always verify that all connections comply with the standards applicable to the installation of air conditioners.

Choosing the installation location

Indoor unit

- ▶ For Wi-Fi Air-conditioner installation, select indoor unit location near to wireless router.
In case Wi-Fi signal strength weakened , Smart APP may be disconnected depending on the Wi-Fi signal strength.
- ▶ Where airflow is not blocked.
- ▶ Where cool air can be distributed throughout the room.
- ▶ Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- ▶ Wall that prevents vibration and is strong enough to hold the product weight.
- ▶ Out of the direct sunlight .
- ▶ 1 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- ▶ As far away as possible from the fluorescent and incandescent lights (so that the remote controller can be operated well).
- ▶ A place where the air filter can be replaced easily.
- ▶ Don't install directly above electronics equipment as leaking water may cause damage if not serviced. (eg. Computers, TV, etc).

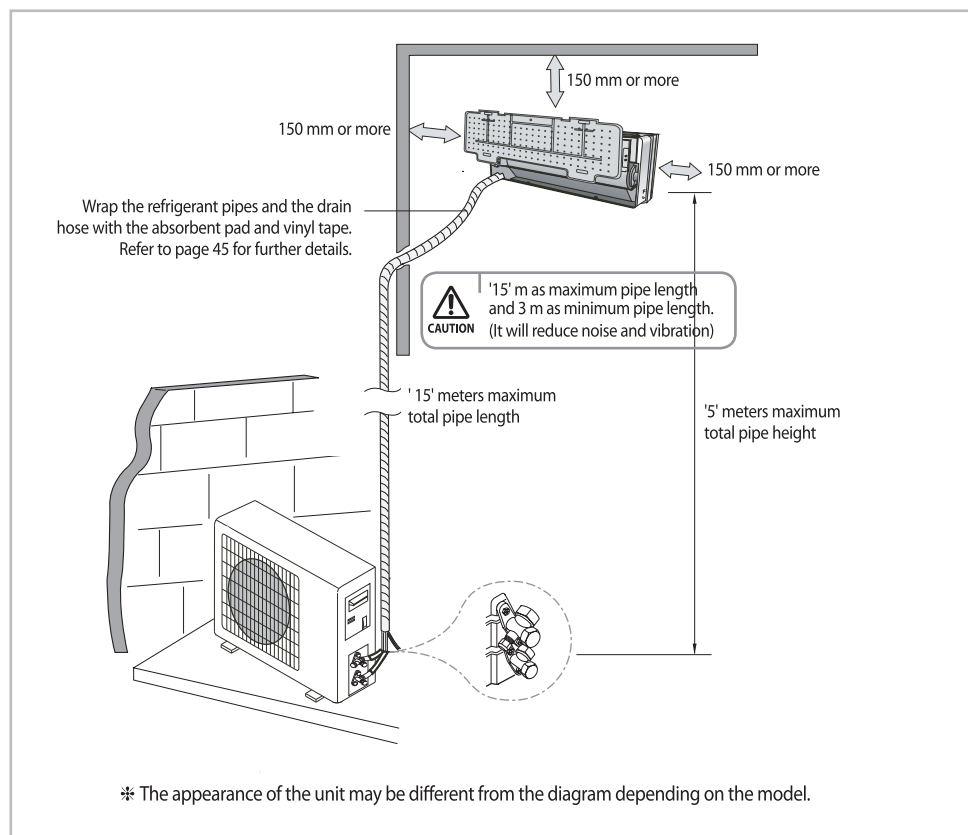
Choosing the installation location

Outdoor Unit

- ▶ Where it is not exposed to strong wind
- ▶ Well ventilated and dustless places
- ▶ Where possible keep out of sunlight and rain
- ▶ Where neighbors are not annoyed by operation sound or hot air
- ▶ Solid wall or support that prevents vibration and is strong enough to hold the product weight
- ▶ Where there is no risk of flammable gas leakage
- ▶ When installing the unit at a high place be sure to fix the unit legs
- ▶ 3 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated)
- ▶ Install the unit horizontally
- ▶ Place where drained water does not become any problem.
- ▶ Place with no plants (especially climbing plants) and where small animal can not access.
- ▶ Outdoor unit should not be place higher than 2.4 m or directly under eaves for accessibility for service and OH&S reasons.



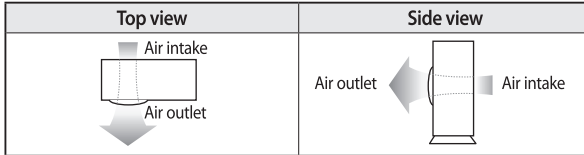
- Avoid the following places to prevent malfunction of the unit
 - Where there is machine oil
 - Salty environment such as seaside areas
 - Where sulfide gas exists
 - Other special atmosphere areas



Space Requirements for Outdoor Unit

When installing 1 outdoor unit

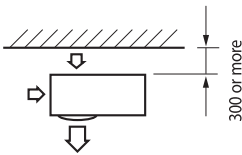
◆ Figure Description



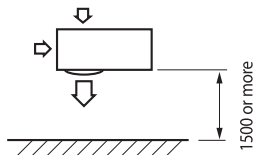
◆ Air flow direction.

(Unit : mm)

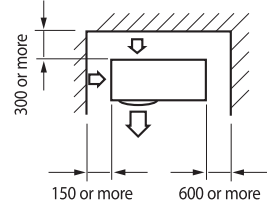
◆ When the air outlet is opposite the wall



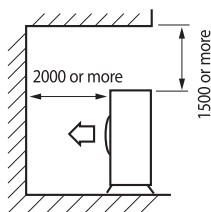
◆ When the air outlet is towards the wall



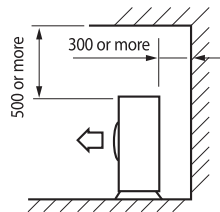
◆ When 3 sides of the outdoor unit are blocked by the wall



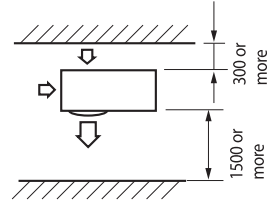
◆ The upper part of the outdoor unit and the air outlet is towards the wall



◆ The upper part of the outdoor unit and the air outlet is opposite the wall



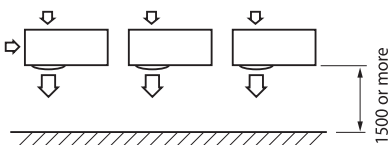
◆ When the walls are blocking front and the rear side of the outdoor unit



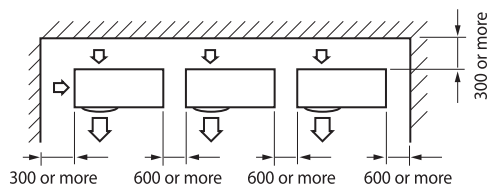
When installing more than 1 outdoor unit

(Unit : mm)

◆ When the air outlet is towards the wall



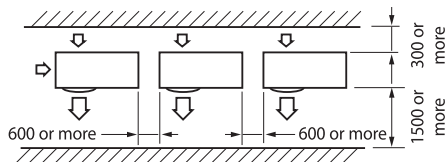
◆ When 3 sides of the outdoor unit are blocked by the wall



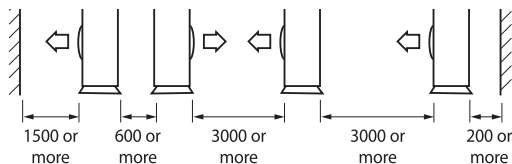
Choosing the installation location

(Unit : mm)

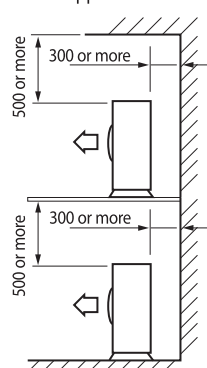
- ◆ When the walls are blocking front and the rear side of the outdoor units



- ◆ When front and rear side of the outdoor unit is towards the wall



- ◆ When the upper part of the outdoor unit and the air outlet is opposite the wall



- If installation is done in inappropriate space, unit may generate sound and cause bad effect on the product.
- Installation must be done in level and in a place where vibration will not cause any effect.

Accessories

The following accessories are supplied with the air conditioner:



- The number of each accessory is indicated in parentheses.

Accessories in the indoor unit case

Installation Plate (1) **09/12** 	Remote controller (1) 	Nut (2) 	Batteries for Remote controller (2) 
User's & Installation Manual (1) 			

Accessories in the outdoor unit case

Rubber Legs (4)



Optional accessories

The following connection accessories are optional. If they are not supplied, you should obtain them before installing the air conditioner.

Insulated Assembly Pipe, Ø6.35 mm (1) 	Insulated Assembly Pipe, Ø9.52 mm (1) 	Insulated Assembly Pipe, Ø12.7 mm (1) 	Rubber Legs (4) 	Drain Hose, length 1 m (1) 	3-wire Assembly Cable (1)
Vinyl Tapes (2) 					



NOTE

- If these accessories are supplied, they will be in the accessory box.

Tools required for installation

General Tools

- Vacuum Pump (Backward flowing prevention)
- Torque Wrench
- Screw Driver
- Pipe Cutter
- Spanner
- Reamer
- Drill
- Manifold Gauge
- Pipe Bender
- L Wrench
- Stud Finder
- Spirit Level
- Measuring Tape

Tools for test operations

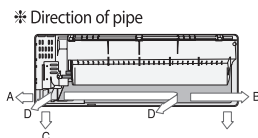
- Thermometer
- Resistance Meter
- Electroscope

Fixing the installation plate

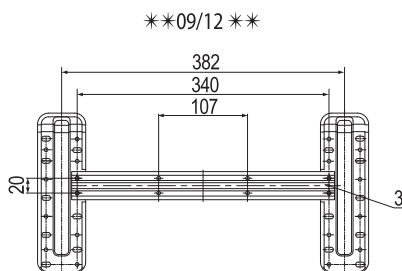
You can select the direction of the drain hose depending on where you want to install the indoor unit. Therefore before fixing the installation plate to a wall or a window frame, you must determine the position of the 65 mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.

When facing the wall, the pipe and cable can be connected from the:

- Right (A)
- Left (B)
- Underside_right (C)
- Rear_right or left (D)



1. Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.



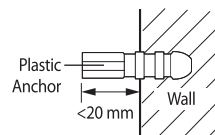
- Make sure to drill only one hole after choosing the direction of the pipe.

2. Fix the indoor unit.

If you fix the indoor unit on a wall

- (1) Fix the installation plate to the wall giving attention to the weight of the indoor unit.

- If you mount the plate to a concrete wall using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, is less than 20 mm.



If you fix the indoor unit on a window frame

- (1) Determine the positions of the wooden uprights to be attached to the window frame.
- (2) Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
- (3) Attach the installation plate to the wooden upright using tapping screws.

If you fix the indoor unit on a gypsum board

- (1) Use stud finder to find out locations of the studs.
- (2) Fix the plate hanger on two studs.



- Search for other spots if there are less than two studs, or the distance between the studs are different from the plate hanger.
- Fix the installation plate without inclining to one side.

Connecting the assembly cable

Cable specification

Model	Power cable	Interconnection cable
09/12	3G1.0 mm ² H05VV-F	3G1.0 mm ² H07RN-F



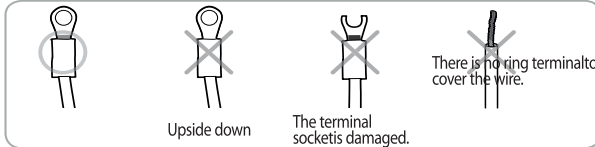
- Connect the power cable to the auxiliary circuit breaker. If every pole fails to connect to the power supply, it must be incorporated in a wire with a contact opening of ≥ 3 mm.
- Use shield cable (Category 5; less than 50pF/m) for noisy environmental site.
- The Interconnection cable is optional. If it is not supplied, use the standard cable.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (Code designation IEC: 60227 IEC53 / CENELEC:H05VV-F, IEC:60245 IEC 66 / CENELEC:H07RN-F)

Connecting the cable

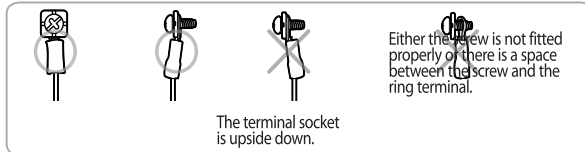
Electrical work

- (1) For electrical and earth works, comply with the 'technical standards of electrical installations' and the 'wiring regulations' of the Local wiring regulations.
- (2) Tighten the terminal block screw to 1.2~1.8N·m(12~18kgf·cm)
- (3) Precautions when connecting terminal blocks of the indoor unit

- Before connecting, make sure the connecting part of the terminal socket is facing upwards.



- There must be no space between the terminal and the screw when connected.
- Any remaining space may become a fire hazard due to overheating of the electrical contact.



- For the terminal block wiring, use a wire with a ring terminal socket only. Regular wires without a ring terminal socket may become a fire hazard due to overheating of the electrical contact during a wiring work.

- ※ When you install the unit, make first refrigerant connections and then electrical connections.
Connect the air conditioner to grounding system before performing the electrical connection.
If unit is uninstalled, first disconnect electrical cables, then refrigerant connections.

Connecting the assembly cable

If the outdoor unit is more than 5 meters away from the indoor unit, you must extend the cable. The maximum length of the cable is 15 meters.

1. Extend the assembly cable if necessary.



- Do not connect two or more different cables to extend the length. It may cause fire.

2. Open the cover panel.

3. Remove the screw securing the connector cover.

4. Pass the assembly cable through the rear of the indoor unit and connect the assembly cable to terminals. (Refer to the picture below)



- Each wire is labeled with the corresponding terminal number.

5. Pass the other end of the cable through the 65 mm hole in the wall.

6. Close the connector cover by tightening the screw carefully.

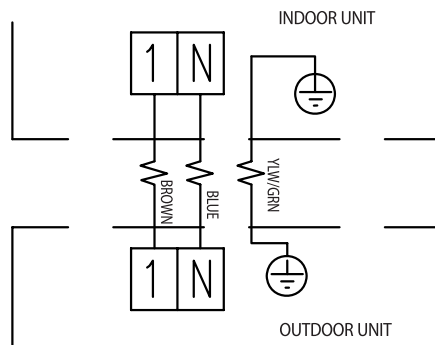
7. Close the cover panel.

8. Remove the terminal board cover on the side of the outdoor unit.

9. Connect the cables to the terminals as seen in the picture.



- Each wire is labeled with the corresponding terminal number.



- Also circular terminal must be matched with screw size in terminal block.
- After connecting the cables, make sure terminal numbers on the indoor/outdoor unit matches.
- Please ensure that Power & Communication cables are separated, they must not be in the same cable.

10. Connect the grounding conductor to the grounding terminals.

11. Close the terminal board cover by tightening the screw carefully.



- In Russia and Europe, consult with the supply authority to determine the supply system impedance before installation.



- Connect the wires firmly so that wires can not be pulled out easily.
(If they are loose, it could cause burn-out of the wires.)
- Connect the wires according to color codes, referring to the wiring diagram.
- The power cable and the interconnection cable should be selected according to the specification in page 35.

Installing and connecting the assembly pipe of the indoor unit

Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

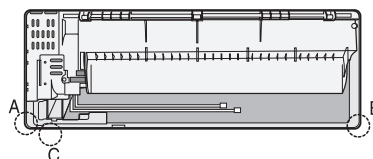
There are 2 refrigerant pipes of different diameters:

- The smaller one is for the liquid refrigerant
- The larger one is for the gas refrigerant

A short pipe is already fitted to the air conditioner. You may need to extend the pipe using the assembly pipe (optional).

The connection procedure for the refrigerant pipe varies according to the exit position of the pipe when facing the wall:

- Right(A)
- Left(B)
- Underside(C)
- Rear



1. Cut out the appropriate knock-out piece (A or B) on the rear of the indoor unit unless you connect the pipe directly from the rear.
2. Smooth the cut edges.
3. Remove the protection caps of the pipes and connect the assembly pipe to each pipe. Tighten the nuts first with your hands, and then with a torque wrench, applying the following torque:

Outer Diameter	Torque	
	N·m	kgf·cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830



- If you want to shorten or extend the pipes, refer to page 38~49.

4. Cut off the remaining foam insulation.
5. If necessary, bend the pipe to fit along the bottom of the indoor unit. Then pull it out through the appropriate hole.
 - ▶ The pipe should not project from the rear of the indoor unit.
 - ▶ The bending radius should be 100 mm or more.
6. Pass the pipe through the hole in the wall.
7. For further details on how to connect to the outdoor unit and evacuate the air, refer to page 42~43.



- The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test; refer to page 44 for further details.



- Tighten the flare nut with torque wrench according to specified method.
If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- DO NOT WALL UP THE PIPE CONNECTION!
All refrigerant pipe connection must be easy accessible and serviceable.

Evacuating the indoor unit

The indoor unit is supplied with inert gas (nitrogen).

Before installing the unit, check if nitrogen gas flow out of indoor unit.

If this one isn't true, DO NOT INSTALL THE UNIT since leakage could be inside the indoor unit.

1. Unscrew the caps at the end of each pipe.

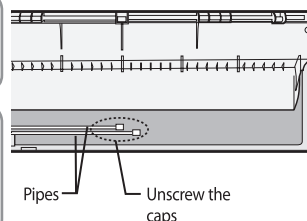
- ▶ All inert gas exhausts from the indoor unit.



- To prevent dirt or foreign substances from getting into the pipes during installation, do NOT remove the caps completely until you are ready to connect the pipes.



- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.



Cutting or extending the pipe

The length of the pipe can be:

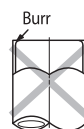
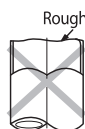
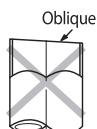
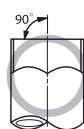
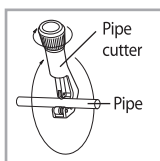
- Extended up to : see table page 30
- Shorten up to : see page 30



If you need a pipe longer than 5 meters:

- You must add refrigerant to the pipes; otherwise, the indoor unit may freeze.

1. Make sure that you have all the required tools (pipe cutter, reamer, flaring tool and pipe holder).
2. If you want to shorten the pipe, cut it using a pipe cutter, ensuring that the cut edge remains at 90° with the side of the pipe (see below examples of correct and incorrect cut edges).

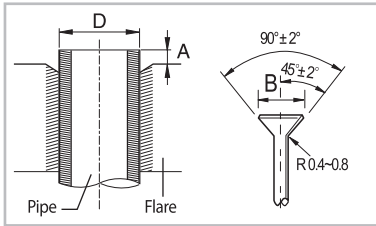


3. To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.



- Face the pipe down while removing the burrs to make sure that burrs do not get in to the pipe.

4. Put a flare nut slightly into the pipe and modify the flare.



Outer Diameter (D)	Depth (A)	Flaring Size (B)
ø6.35 mm	1.3 mm	8.7 - 9.1 mm
ø9.52 mm	1.8 mm	12.8 - 13.2 mm
ø12.70 mm	2.0 mm	16.2 - 16.6 mm
ø15.88 mm	2.2 mm	19.3 - 19.7 mm

5. Check if you flared the pipe correctly (see examples of incorrectly flared pipes below).



Correct



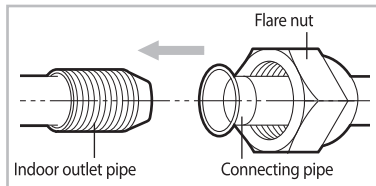
Inclined

Damaged
Surface

Cracked

Uneven
Thickness

6. Align the pipes to connect them easily. Tighten the flare nuts first with your hands, and then with a torque wrench, applying the following torque:



Outer Diameter	Torque	
	N·m	kgf·cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830



- Excessive torque can be cause of gas leakage. If extending pipe by welding/brazing please ensure nitrogen is used during welding/brazing process. The joint must be accessible and serviceable.

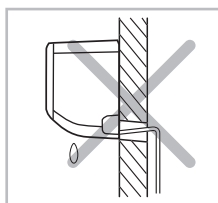
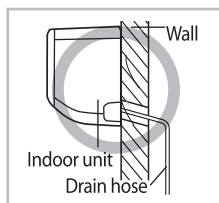
7. For further details on how to connect to the outdoor unit and evacuate the air, refer to page 42~43.



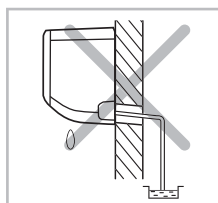
- Tighten the flare nut with torque wrench according to specified method.
If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.

Installing and connecting the drain hose of the indoor unit

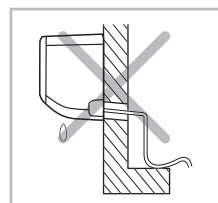
When installing the drain hose for the indoor unit, check if condensation draining is adequate.
When passing the drain hose through the 65 mm hole drilled in the wall, check the followings:



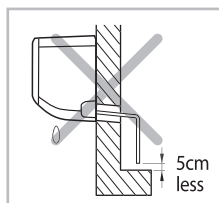
The drain hose must NOT slant upwards.



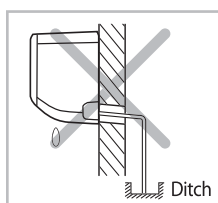
The end of the drain hose must NOT be placed under water.



The drain hose must not be bent.

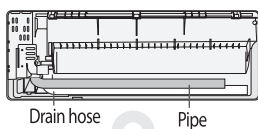


Keep a clearance of at least 5 cm between the end of the drain hose and the ground.

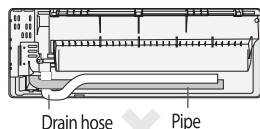


Do not place the end of the drain hose in a hollow.

1) Correct connection



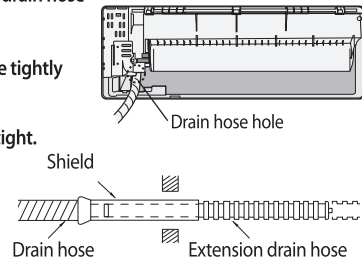
2) Incorrect connection



- Don't tie drain hose to the assembly pipe which may lead to water leakage.

Drain hose installation

1. If necessary, connect the 2-meter extension drain hose to the drain hose.
2. If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
3. Fit the drain hose into drain hose hole, then fix the end of the drain hose tightly with a clamp.
4. Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
5. Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.



NOTE

- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 44 for further details.



CAUTION

- Make sure the installed direction of the drain hose is correct. Inadequate installation may cause condensate water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- **DO NOT WALL UP THE DRAIN HOSE CONNECTION!**
Drain hose connection must be easy accessible and serviceable.

Evacuating the connected pipes

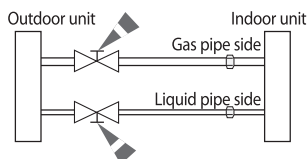
The outdoor unit is loaded with sufficient R-410A refrigerant. Do not vent R-410A into atmosphere: it is a fluorinated greenhouse gas, covered by Kyoto Protocol, with a Global Warming Potential (GWP) = 1975.

You should evacuate the air in the indoor unit and in the pipe. If air remains in the refrigerant pipes, it affects the compressor. It may cause reduction of cooling capacity and malfunction. Use Vacuum Pump as seen in the picture.



- When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

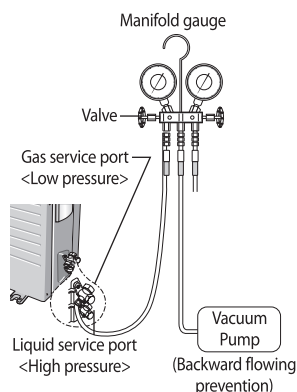
- Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.
- Tighten the flare nut first with your hands, and then with a torque wrench, applying the following torque.



- Excessive torque can be cause of gas leakage.

- Connect the charging hose of the low-pressure side of manifold gauge to a gas service port as seen in the picture.
- Open the valve of the low pressure side of manifold gauge counterclockwise.
- Evacuate the air in the connected pipes using the vacuum pump for about 15 minutes.
 - Make sure that pressure gauge shows -0.1 MPa(-76 cmHg) after about 10 minutes.
This procedure is very important to avoid a gas leak.
 - Close the valve of the low pressure side of manifold gauge clockwise.
 - Turn off the vacuum pump.
 - Check for 2 minutes if there is any pressure change.
 - Remove the hose of the low pressure side of manifold gauge.
- Set a valve cork of liquid and gas service port to the open position.

Outer Diameter	Torque	
	N·m	kgf·cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830



Adding Refrigerant

Add refrigerant charge according to table below:

If you use a pipe longer than 5 m,
'20'g of refrigerant R-410A must be added for each extra meter.

If you use a pipe shorter than 5 m,
The evacuate time is normal.

Refer to the Service Manual for further details.



- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.

Important information regulation regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Do not vent gases into the atmosphere.

Refrigerant type	GWP value
R-410A	1975

* GWP=Global Warming Potential

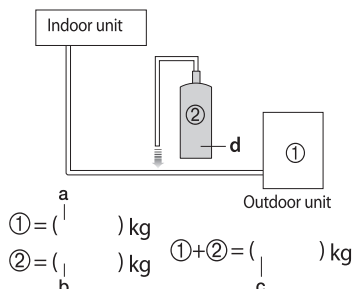
1. Please fill in with indelible ink,

- ▶ ① the factory refrigerant charge of the product,
- ▶ ② the additional refrigerant amount charged in the field and
- ▶ ①+② the total refrigerant charge. on the refrigerant charge label supplied with the product.



- a. Factory refrigerant charge of the product: see unit name plate
- b. Additional refrigerant amount charged in the field (Refer to the above information for the quantity of refrigerant replenishment.)
- c. Total refrigerant charge
- d. Refrigerant cylinder and manifold for charging

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



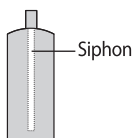
- The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).

Charging the refrigerant under conditions of liquid by using a liquid pipe

R-410A is a mixed type of refrigerant. It is necessary for recharging under conditions of liquid. When recharging refrigerant from the refrigerant cylinder to the equipment, follow the instructions below.

1. Before recharging, check whether the cylinder has a siphon or not.
There are two ways to recharge the refrigerant.

Cylinder with siphon



- ▶ Charge the refrigerant standing the cylinder upright.

Cylinder without siphon



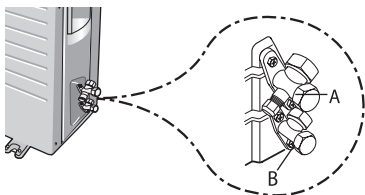
- ▶ Charge the refrigerant turning the cylinder upside down.



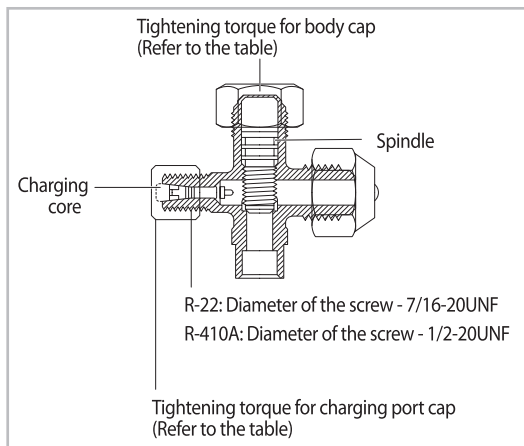
- If R-410A refrigerant is charged with gas, the composition of the charged refrigerant changes and the characteristics of the equipment vary.
- During the measuring operation of refrigerant quantity added use electronic scales.
If cylinder doesn't have syphon, upset it.

Performing the gas leak tests

Make sure to check for gas leaks before completing the installation process (connecting the assembly pipe and hose between indoor unit and outdoor unit, insulating the cables, hose and pipe, and fixing the indoor unit to the installation plate).

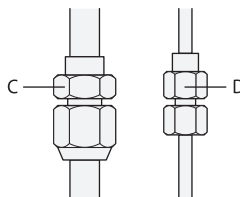


Test part for outdoor unit



To check for gas leaks on the outdoor unit,
Check the valve A and B using a leak detector.

To check for gas leaks on the indoor unit,
Check the flare nut C and D using a leak detector.



Test part for indoor unit

- Before inspecting the leakage, use a torque wrench to close the cap for the service valve. (Comply with a tightening torque for each size of the diameter, and tighten the cap firmly to prevent any leakage).
- To check for any possible leakage, insert inert gas into the pipes connected to indoor/outdoor units and check the connection part of the indoor/outdoor units with soap lather or liquid for leakage test.

Outer Diameter (mm)	Tightening torque	
	Body cap (N·m)	Charging port cap (N·m)
ø 6.35	20 ~ 25	10 ~ 12
ø 9.52	20 ~ 25	
ø 12.70	25 ~ 30	
ø 15.88	30 ~ 35	
ø 19.05	35 ~ 40	

(1 N·m = 10 kgf·cm)

Fixing the indoor unit in place

Perform the following work on the area where gas leak test was done priory.

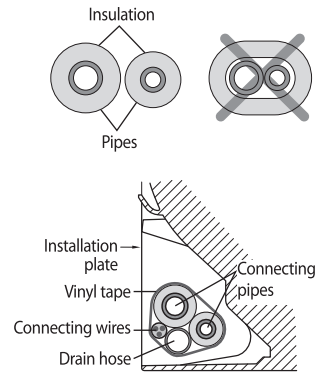
After checking for gas leaks in the system, insulate the pipe, hose and cables.
Then place the indoor unit on the installation plate.

1. To minimise condensation problems, wrap foam insulation (as shown in the figure) on a part without insulation on the end of the pipes.
2. Wind the pipe, assembly cable and drain hose with vinyl tape.
3. Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it does not project from the rear of the indoor unit.
4. Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.



- Make sure pipe does not move when you install the indoor unit on an installation plate.

5. Wrap the rest of the pipe with vinyl tape.
6. Attach the pipe to the wall using clamps (optional).

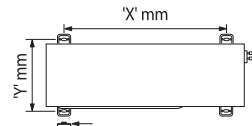


Fixing the outdoor unit in place

Install the outdoor unit in level on a stable base to help avoid the generation of noise and vibration, especially when installing the unit close to a neighbor.

If you install the outdoor unit in a place exposed to strong winds or at a height, fix it to an appropriate support (wall or ground).

1. Place the outdoor unit as indicated on the top of the unit to let the discharged air out properly.
2. Fix the outdoor unit in level to an appropriate support using anchor bolts.
3. If the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit so that the fan can operate correctly.



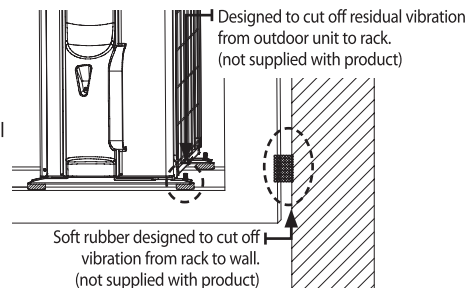
Model	X	Y
09	375	256
12	439	278



- Secure the rubber leg to help prevent the generation of noise and vibration.

Outdoor unit installed on the wall by rack

- Ensure the wall will be able to suspend the weight of rack and outdoor unit;
- Install the rack close to the column as much as possible;
- Install proper grommet in order to help reduce noise and residual vibration transferred by outdoor unit towards wall.



Final check and trial operation

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the followings:

- Strength of the installation site
- Tightness of pipe connection to detect gas leak
- Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- Grounding conductor connection
- Correct operation (follow the steps below)

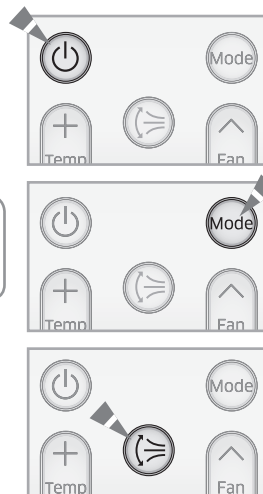
1. Press the **Power**  button and check the following:
 - ▶ The indicator on the indoor unit lights up.
 - ▶ The airflow blade opens and the fan gears up for operation.
2. Press the **Mode** button to select Cool mode.
 - ▶ In Cool mode, use **Temp** + or – button and set the temperature at 17 °C.



- Approximately 3~5 minutes later, outdoor unit will start to operate and the Cool air will blow out.
- After 12 minutes of stationary condition check the indoor unit air treatment.

Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp:
From 10 °C to 12 °C (indicative delta T)

3. Press the **Air swing**  button and check the following:
 - ▶ The airflow blades work properly.
4. Press the **Power**  button to stop the operation.



- When you complete the installation successfully, hand over this manual to the user for storage in a handy and safe place.

Pump down procedure (when removing the product)

1. Turn on the air conditioner and select Fast Cool mode. Please let the compressor run for more than 5 minutes. If the compressor does not operate for more than 5 minutes due to protection control, wait about 2 minutes, and then carry out the next procedure.
2. Release the valve caps on High and Low pressure side.
3. Use L wrench to close the valve on the high pressure side.
4. Approximately 2 minutes after, close the valve on the low pressure side.
5. Stop operation of the air conditioner by pressing the Power button on the indoor unit or remote controller.
6. Disconnect the pipes.

How to connect your extended power cables

Items to prepare

(compressor and insulation tape should be prepared by an installation technician.)

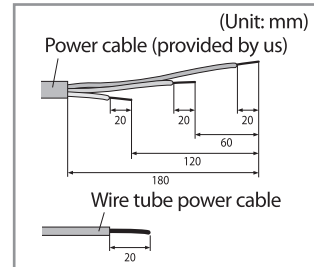
Tools	Crimping pliers	Connection sleeve (mm)	Insulation tape	Contraction tube (mm)
Spec	MH-14	20xØ7.0(HxOD)	Width 18 mm	50xØ8.0(LxOD)
Shape				

- As shown in the figure, peel off the shields from the rubber/wire of the power cable.

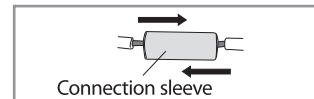
- Peel off 20 mm of the wire shields of the tube installed already.



• After peeling off the tube wire, you must insert a contraction tube.



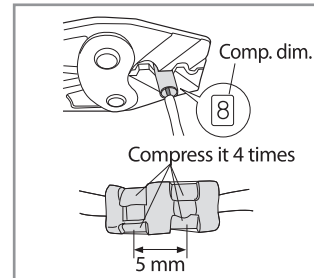
- Insert both sides of core wire of the power cable into the connection sleeve.



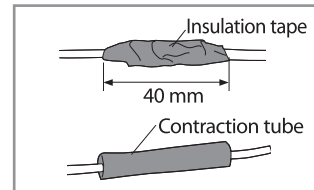
- Using a compressor, compress the two points and flip it over and compress another two points in the same location.

- The compression dimension should be 8.0.

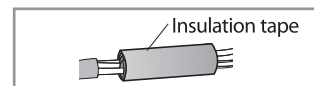
- After compressing it, pull both sides of the wire to make sure it is firmly pressed.



- Wrap it with the insulation tape twice and position your contraction tube in the middle of the insulation tape.



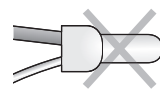
- Apply heat to the contraction tube to contract it.



- After tube contraction work is completed, wrap it with the insulation tape to finish.



• In case of extending the electric wire, please DO NOT use a round-shaped pressing socket.
- Incomplete wire connections can cause electric shock or a fire.





QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
INDONESIA	021-56997777 08001128888	www.samsung.com/id/support