



FORD & DOONAN
Air Conditioning Systems

Operating Instructions

for your Ford & Doonan Ducted System



Congratulations!

Congratulations on your new Ford & Doonan Air Conditioning System. You can rest assured you have received a system of the highest quality, backed by the very best customer service. Before operating the air conditioner, please read this operating manual carefully. It will advise you on how to operate the unit correctly, understand the air conditioner's advanced features and help you in the unlikely event that a problem should occur.

Please keep this manual in a safe place for future reference.

Thank you
for purchasing
Ford & Doonan
Air Conditioning



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Air Conditioning Systems

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Scan to view our Operation Videos on our website or visit fordanddoonan.com.au/operation-videos-and-manuals

1. Important Safety Instructions

Never remove any fixed covers on the indoor or outdoor unit. Removal of the covers may expose fast moving fan blades or electrical components operating at a hazardous voltage. Contact with the blades or high voltage components may result in injury or electric shock.

Never insert any objects into the openings of the indoor or outdoor unit. This may damage the product or result in injury to the person inserting the object.

Do not expose the indoor unit or remote controller to rain or moisture. Water or other fluids on the electrical components may result in fire or electric shock.

Always replace any blown fuse with a fuse of the same specification. The use of the

wrong fuse may allow the electrical wiring to overheat and catch on fire. If the correct type of fuse continues to blow, or the circuit breaker continues to trip, contact Ford & Doonan Service Department.

Never operate the air conditioner without the return air filter(s) in place. Operating the unit without the filter(s) will allow dust to enter the indoor unit and build up on the heat exchanger coil and fan motor. This will cause a malfunction of the unit, which will not be covered by warranty.

This electrical appliance is not intended for use by young children. Young children should be supervised to ensure that they do not play with the outdoor unit.



Main switch

Ensure you are familiar with the location of the main switches for the air conditioning system. These switches are normally located adjacent to the outdoor unit and in the fuse box/switchboard.

If the air conditioner is not going to be used for an extended period of time or you are going away on holidays, the main

switch should be turned off to prevent accidental operation of the air conditioner. When turning the system back on, the main switch must be turned on at least 6 hours before the air conditioner is operated to warm up the compressor. Failure to do so may result in damage to the compressor, which will not be covered by warranty.

2. Zone Operation

Applicable when your new system has zones fitted

- For operational instructions please refer to the attached sub manual (if applicable).
- It is possible to run all zones at the same time, however, the system will not be running very efficiently.
- You may operate two or more zones at once, depending on the capacity of your unit, design and heat load. For example, under maximum heat load (a hot day) it is better to have fewer zones on than under a low heat load (at night) when an extra zone may be turned on.
- We recommend turning on the living areas during the day and closing any bedrooms and other zones that are not needed. At night it is best to turn off any living areas and keep the bedroom zones open. This will allow the best efficiency of the system.
- The zones can take up to 2 minutes to open or close.
- If some zones do not have enough air flow check how many zones are open. Close off any zones that are not needed and see if air flow increases.



3. Outlets

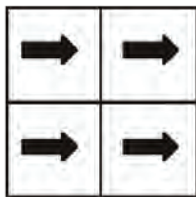
Multi-Directional outlets

Multi-Directional outlets (if applicable) are designed to give maximum adjustment to airflow. Each of the four cores (called louvre panels) is adjustable by lifting and turning to direct air from one direction to another. For the distribution of cool air, the louvre panels are set to deflect air horizontally across the ceiling. For high ceilings and heating systems the louvre panels are adjusted to achieve 40% downward flow. For spot cooling and heating, the louvre panels oppose each other for a vertical down airflow. The outlets can be manually closed during winter if the

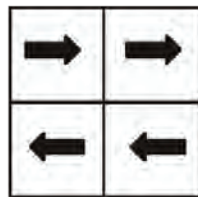
system is not used for heating, although this is not a necessity.

Sidewall registers

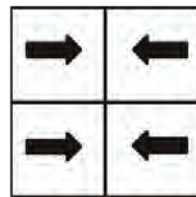
Sidewall registers (if applicable) have vertical and horizontal blades that are adjustable. The blades are manufactured not to rattle. Any adjustments are required to be done with the assistance of long nose pliers with insulation tape wrapped around the ends so the paint of the register is not damaged. Gently move the blades to the desired position.



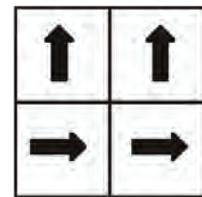
ONE WAY



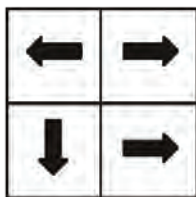
TWO WAY



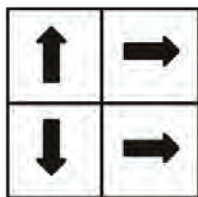
TWO WAY



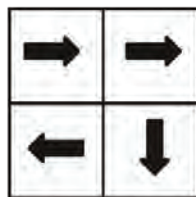
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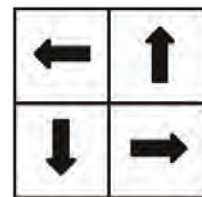
THREE WAY



THREE WAY



THREE WAY



FOUR WAY



4. Maintenance

1. Cleaning the air filter

If you have a clean air filter pack, please call your Ford & Doonan store to purchase a replacement filter. We recommend replacing the filter every 12 months, if you have allergies or pets, we recommend replacing the filter every 6 months.

To clean your filter, remove the filter, hose it down and leave it a couple of hours to dry. Once this is done do not forget to press the filter reset button on your air conditioning controller.

2. Cleaning the outside panel

Cleaning of the outside panel is easy, by using a soft cloth or a cloth dampened by a neutral detergent solution. Never use paint thinner, other chemical products, or polishing powder when cleaning the outside panel. A good quality car polish can be applied to the painted surfaces to increase the paint's durability.

3. When the unit is not being used for an extended period

- Switch off the main power switch.

- Rust preventative coating has been applied to the outside cover. If corroded, repair by painting.
- Clean the condenser to remove dust and excess waste (leaves, paper, etc.).

4. Maintenance service contract recommended

To ensure your system delivers cool, fresh air throughout the year and that your warranty is valid, it's essential you maintain it regularly. Preventative maintenance by qualified technicians has been proven to reduce the risk of failure of plant and equipment and maintain the efficiency of the overall installation.

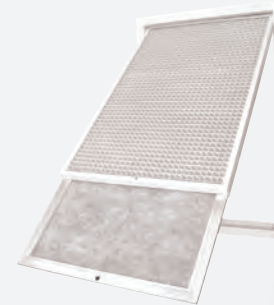
Servicing by a qualified Ford & Doonan technician is recommended. For domestic operation of the air conditioning system we recommend an annual service. If equipment is subjected to heavy use a bi-annual service frequency is desirable.

Contact your Service Department (9331 8800) to set up automatic service reminders and ask about our three year service packages at a reduced cost.

We recommend replacing your disposable filter every 12 months



DISPOSABLE filter



WASHABLE filter

5. Common Queries

If the air conditioning is not running or the cooling effect cannot be achieved as desired, check the following points before requesting repair or service.

If the air conditioner does not function please check the following:

Is the power switched ON?

Has the power fuse failed?

Is power supplied?

Has the circuit breaker tripped?

Is the temperature indicator set in the correct operating position, or to a position which is too high for the cooling operation?

How to perform a reboot of your air conditioning system

Before calling the Service Department please perform a reset of your air conditioning system. As any electrical appliance, power dropouts or surges can interrupt the operation of the system. In most cases a reboot is all that is required. In case the system has never been used before, make sure that the main switch has been turned on for at least 6 hours before using the air conditioning unit.

Locate the isolator switch at the outdoor unit. It is a big white switch at the outdoor unit. Turn it off and wait 3 minutes before turning it back on.

If the system does not reboot, or the fault still appears please call the Ford & Doonan Service Department.

Not cooling or heating as desired please check the following:

Is the thermostat set to the proper position to heating or cooling?

Is there an obstruction near the air intake or outlet port?

Is the air filter free from clogging by dust, dirt, etc.?

Are doors and windows completely closed?

Smoke coming from outdoor unit?

In cold weather you may see what appears to be smoke coming from the unit. This is just steam being released when the unit is in de-ice mode. Further you may notice the unit icing up and appearing frozen. This is normal as long as the system completes a de-ice cycle.

“Filter clean” displays

If a small tap or spanner symbol appears, this indicates it is time to clean or replace the filter. Press this switch to reset and clear the symbol once you have cleaned or replaced the filter. Please see Maintenance for more information on how to clean your filter. If the spanner symbol appears with a fault code, it is advising you of a problem and you will need to contact your Service Department.

Faults:

If the **“CHECK”** indicator starts flashing, this means there is a fault at hand.

In this case, or if fault codes appear, please call your Service Department with the fault code, explain the problem and they will be able to assist with the issue.

6. Performance Expectations

Hot weather

Heat load calculations and manufacturers capacity ratings are based on an outside temperature of 36°C. When the temperature exceeds this, the performance of your air conditioner will fall away the hotter it gets and room temperatures will increase accordingly.

Cold weather

Heat load calculations and manufacturers capacity ratings are based on an outside temperature of 7°C. When the temperature is lower than this, the performance of your air conditioner will fall away the colder it gets and room temperatures will decrease accordingly. The above conditions do occur in Perth and there will be nothing wrong with your air conditioning unit when it happens.

Heating performance

Hot air rises and the room temperatures at different levels will be different. It is normal that some parts of the room will be warmer than others. The same applies on cooling mode but to a lesser degree.

Return air

Your system will usually be designed with one only return air grille. The area around the return air grille will always be drafty, and in Winter, always much cooler than the rooms. This is why we select hallways or other “non occupied rooms”. You will have to leave any room’s entry door ajar to allow the conditioned air to come back to the grille. You cannot close the door as performance will be affected. We have options to overcome these situations, so please discuss this with your consultant.

Zones

If we have installed zones, then they cannot all be turned on together without effecting performance. On low load days or nights your air conditioner can handle a larger area at one time. Your air conditioner can only handle the percentage of the home we mention in our letter at typical design temperatures. Turning on less zones will effectively increase the available capacity you have.



7. Performance Tips

1. Temperature setting on your air conditioning unit

We recommend that in summer you set the cooling cycle at 24 degrees and in Winter the heating at 21 degrees. On very hot days (above 36 degrees) or cold days (below 7 degrees) one can increase the temperature in Summer and decrease in Winter, to keep the efficiency of the air conditioning.

2. To keep the comfortable temperature without extra heat loading

The easiest solution to start your air conditioner earlier in the day by using your timer setting. On hot days start the air conditioner before your heat load increases so the air conditioner can get a head start. On cold days start the air conditioner whilst it is still warm outside (above 12-15°C). This will let the air conditioner deliver maximum capacity before performance falls away. If your system has zones (residential only) reduce the number of zones turned

on when the external conditions are extreme. The smaller the area being air conditioned, the better it can cope.

3. Close doors of rooms that are not being air conditioned

When operating an air conditioning system that utilises the zoning technique, remember the system has only a certain capacity, therefore the idea is to air condition the areas you are occupying at the time. With this in mind, it becomes prudent to habitually close the doors that lead to a non air conditioned area, thereby reducing the total area being subjected to air conditioning. This will enhance the effectiveness of the machine.

4. Allow air flow to return air grille

You will notice that the larger return air grill is normally located in a central position in the building. It is important to encourage the airflow towards this grille. This grille is drawing the total air capacity of the system through it and therefore



requires unrestricted airflow. Depending upon the building, you may need to open or close doors around this area to keep the air flowing to this grille.

5. Regular cleaning of the filter is important

The return air grille in most cases also contains an air filter. This air filter, depending on the system usage and other air quality factors, will need to be cleaned regularly. To do this, simply open the grille and slide out the filter. In most cases it is best to hose the filter clean, although some people prefer to vacuum the filter. Remember, regular cleaning of the filter will improve the system efficiency.

6. Clean outdoor unit and surroundings

The condensing or outdoor unit is located in a position to best suit the building and the occupants. It is important to maintain cleanliness around the unit, for example sweeping away any build-up of leaves or general flotsam. It is critical to not inhibit the airflow coming from the condenser, therefore general garden paraphernalia or other equipment should never be

stacked on or lent against the condenser. Similarly if a garden is developing around the condenser, this can be an advantage as some of the sound from the condensing unit will be absorbed, although a robust bush can block the air flow so consideration should be given to this. It is also imperative to keep the condensing unit accessible for servicing purposes.

7. Sizing of equipment

When we recommend a unit we have completed a heat load calculation on the area. We have assumed the following:

- Curtains will be drawn closed in both sunny Summer days and at night in Winter.
- Ceiling insulation has been installed directly above your ceiling (not just anti-con or sisalation)
- Doors and windows will be left closed.

If any of the above changes, your air conditioner may not be large enough to maintain acceptable room temperatures.

Wired Remote Control
MWR-WE10

Air Conditioner user manual

**Planet
First** 100%
Recycled Paper

This manual is made with 100% recycled paper.

imagine the possibilities

Thank you for purchasing this Samsung product.

EN ES FR IT PT DE EL NL PL HU RU AR DB98-32810A(8)

SAMSUNG

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PREPARATION



Safety Precautions

This content is intended to protect the user's safety and prevent property damage. Please read it carefully for correct use of the product.

 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.		Unplug the power plug from the wall socket.
	Do NOT attempt.		Do NOT disassemble.
	Make sure the machine is grounded to prevent electric shock.		

FOR INSTALLATION

WARNING

-  **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.**You must connect the product with rated power upon installation.**
 - ▶ Failing to do so may result in problems with the product, electric shock, or fire.
-  **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.

FOR INSTALLATION

CAUTION

-  **Install the product on a hard and even place that can support its weight.**
 - ▶ If the place cannot support its weight, the product may fall down and it may cause product damage.

FOR POWER SUPPLY

WARNING

-  **Do not bend or pull the power cord excessively. Do not twist or tie up the power cord.**
 - ▶ This may result in electric shock or fire.

FOR OPERATION

 **WARNING**

- ❗ **If the appliance generates a strange noise, a burning smell or smoke, stop the operation immediately and contact your nearest service center.**
 - ▶ Failing to do so may result in electric shock 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.**If the malfunction diagnosis indicator appears or malfunctions, then stop operation immediately.**
 - ▶ If you detect any burning smells from the product or it malfunctions, then immediately turn off the air conditioner/Ventilator(ERV) and power, and then contact the service center. Continuing to use the device in this state can cause electrical shock, fire, or damage to the product.
 - ▶ If the E8 36 indicator appears, then it means that it is time to contact the service center for periodic inspection. Neglecting these periodic inspections can result in malfunctions (only applicable to GHP model).
- ⊘ **Do not attempt to repair, disassemble, or modify the appliance yourself.**
 - ▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

FOR OPERATION

 **CAUTION**

- ❗ **Do not allow water to enter the product.**
 - ▶ This may result in fire or electric shock.
- ⊘ **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 apply a strong impact to the remote controller and do not disassemble the remote controller.**
Do not use this product for other purposes.
 - ▶ This product is designed to only be used as a system air conditioner.**Do not press the buttons with any sharp objects.**
 - ▶ This may result in electrical shock or part damage.

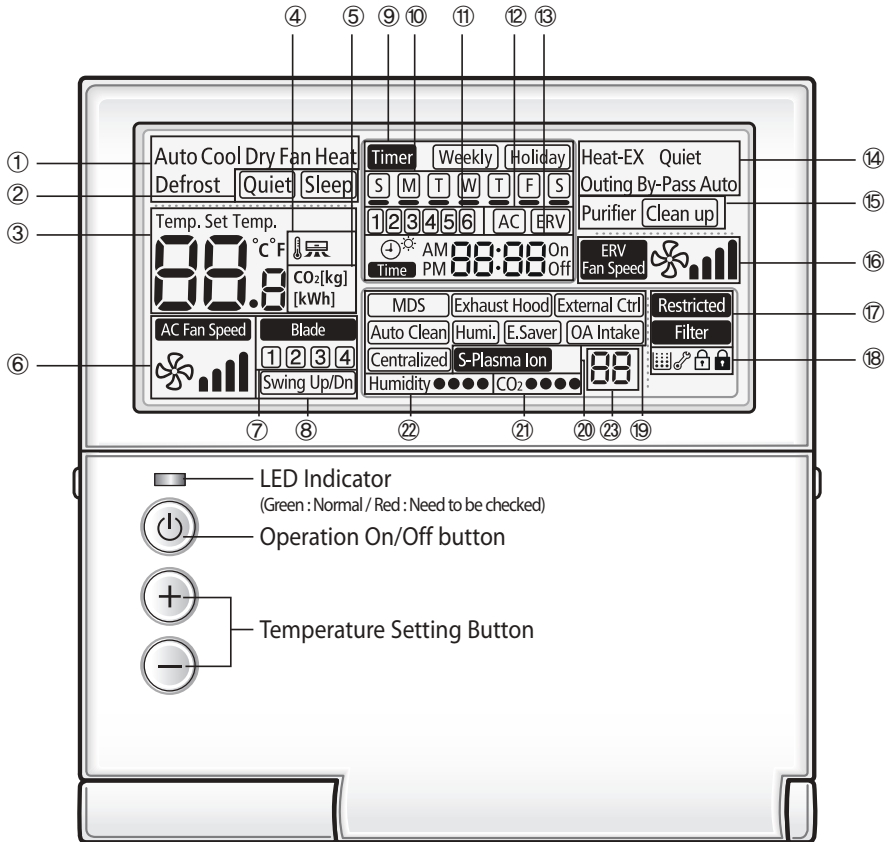
FOR CLEANING

 **WARNING**

















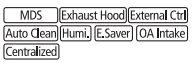





- ⊘ **Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner, alcohol or acetone to clean the appliance.**
 - ▶ This may result in discoloration, deformation, damage, electric shock or fire.

Part Names

Display

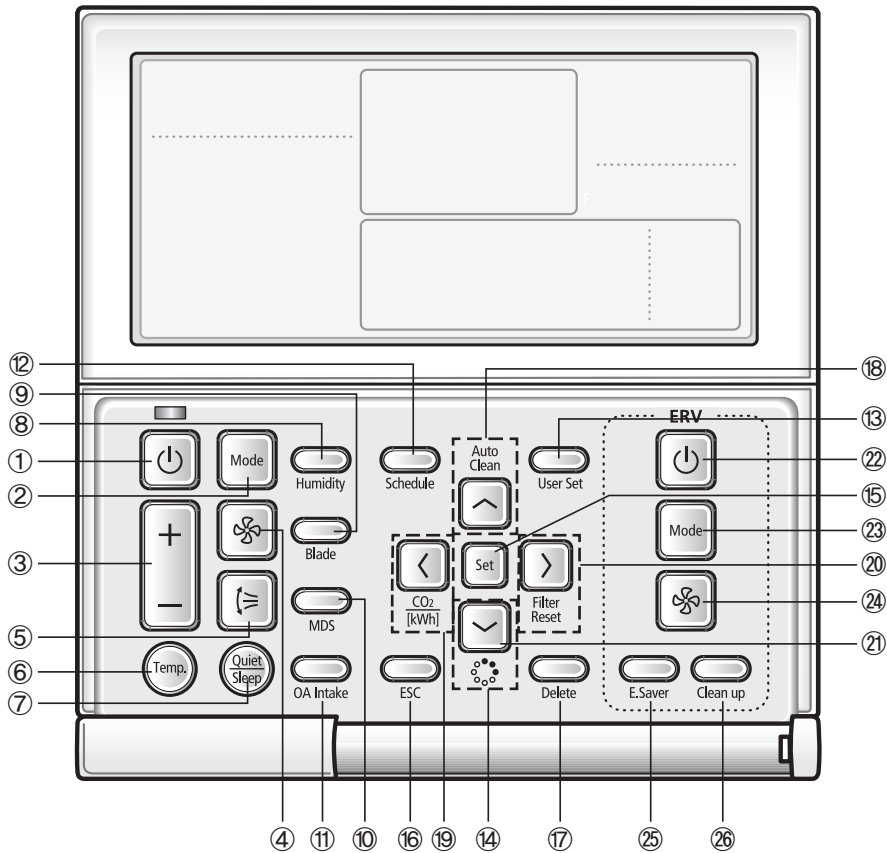


NOTE • Without opening the cover of your Wired Remote Controller, you can turn the air-conditioner power On/Off or set the desired temperature.



















Classification	Indication	Function
Air Conditioner Related Information	① Auto Cool Dry Fan Heat Defrost	Displays Air conditioner operation
	② 	Displays Quiet/Sleep operation
	③ Temp. Set Temp. 	Displays Indoor temperature/Set temperature
	④ 	Displays discharge temperature control
	⑤ 	Displays CO ₂ /power consumption
	⑥ 	Displays AC fan speed
	⑦ 	Displays Blade selection
	⑧ 	Displays Air swing(Up/Dn)
Schedule related information	⑨ 	Weekly schedule/Holiday setting displays
	⑩ 	Displays Current day(□) or scheduled day(○)
	⑪ 	Displays Schedule number
	⑫ 	Displays Scheduled device selection
	⑬ 	Displays Current time/summer time/scheduled time
Ventilator (ERV) related information	⑭ Heat-EX Quiet Outing By-Pass Auto Purifier	Displays Ventilator(ERV) operation
	⑮ 	Displays Clean up
	⑯ 	Displays Ventilator(ERV) fan speed
Common function related information	⑰ 	Displays Invalid operation /Filter cleaning (filter cleaning period)
	⑱ 	Displays Dust box cleaning alert/check/partial locking/full locking
	⑲ 	Displays Motion detect sensor/Exhaust hood/External interconnection control/Auto clean/ Humidifying/Energy saving/Outdoor air supply intake/ Centralized control
	⑳ 	Displays S-Plasma Ion
	㉑ 	Displays Indoor CO ₂ density
	㉒ 	Displays Indoor humidity
	㉓ 	Displays remaining time of the auto stop time/ERV delay time - Solid : Hour unit, Blinking : Minute unit Displays Demand Response Mode during a Demand Response Event : 

Part Names


Buttons



Classification	Button	Function	
Air Conditioner Related Information	①	Operation On/Off button	Turns the air conditioner power On/Off
	②	Mode button	Selects the desired air conditioner operation
	③	Temperature setting button	Sets the desired temperature
	④	Fan speed button	Changes the air conditioner's fan speed
	⑤	Air Swing button	Changes the air flow direction to move upward or downward
	⑥	Temp. button	Checks the indoor temperature
	⑦	Quiet/Sleep button	Selects Quiet or Sleep operation for the air conditioner
	⑧	Humidity button	Turns the MINI AHU indoor unit humidifying function On/Off

Classification	Button	Function		
Air Conditioner Related Information	⑨  Blade	Blade button	Selects a blade for individual control	
	⑩  MDS	Motion detect sensor button	Selects when no one is detected in an indoor area, when the air conditioner needs to be turned off automatically, when the AWAY operation is set;	
	⑪  OA Intake	Outdoor air intake	Select the MINI AHU indoor unit Outdoor intake function	
	⑫  Schedule	Schedule Button	Select the schedule setting function	
Special Function Displays	⑬  User Set	User Set Button	Select the detailed setting function	
	⑭ 	Navigational buttons	Move between items or change the item value	
	⑮  Set	Set button	Save your new settings	
	⑯  ESC	ESC button	Return to general mode from schedule and detailed setting screens	
	⑰  Delete	Delete button	Cancel the schedule setting	
	⑱  Auto Clean	Auto Clean button	Use the auto cleaning function for your air conditioner	
	⑲ 	CO2/[kWh] button	Display the amount of CO2 and the power consumption	
	⑳ 	Filter Reset button	Turn off the filter cleaning displays (filter using time reset)	
	㉑ 	S-Plasma Ion button	Choose the S-Plasma Ion function	
	Ventilator (ERV) Related Buttons	㉒ 	Operation On/Off button	Turn the Ventilator(ERV) On/Off
		㉓ 	Mode button	Select the desired operation for the Ventilator(ERV)
㉔ 		Fan speed button	Change the fan speed for your Ventilator(ERV)	
㉕ 		E.Saver button	Begin Energy Saving Operation	
㉖ 		Clean up button	Select air purification through the in/out load controls	



- After cleaning the filter, please press the **Filter Reset** button. The **Filter** lamp will turn off, and it will be turned on again upon the next cleaning period.
- If you press a functional button not supported by the indoor unit, then the **Restricted** lamp will turn on.
- If the temperature display setting is set to indoor temperature and you press the **Temp.** button, the **Restricted** lamp display will appear. (When you install the Wired Remote Controller, the setting is available.)
- If you press the **On/Off**  button when your Ventilator(ERV) is connected to a Wired Remote Controller, then the air conditioner and the Ventilator(ERV) might operate or stop at the same time or only the air conditioner might operate or stop. The factory setting is set to simultaneous operation/stop. (When you install the Wired Remote Controller, the setting is available.)
- Although the air conditioner and the Ventilator(ERV) are set to simultaneous operation/stop, you can individually control the air conditioner and the Ventilator(ERV) by using another controller (e.g. wireless remote controller, central controller, S-net mini) except for a Wired Remote Controller.

Basic Operation of Air Conditioner

Basic operations can be selected after pressing the **Mode** button.

Auto

This function allows you to automatically adjust the temperature and the fan speed to maximize your comfort.

- When the indoor temperature is very high, the device will produce a strong, cold wind. When the temperature cools down, then weaker wind will be produced.

Cool

This is a frequently used operation that allows you to adjust the fan speed, temperature, and wind direction the way you like.

- If you select heating operation during cooling operation, then the cooling operation is canceled.

Dry

This operation effectively removes all excess humidity so that you can feel refreshed during rainy days.

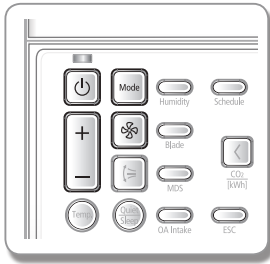
Fan

This operation produces wind, just like a powerful fan, so that you can enjoy a refreshing breeze.

Heat

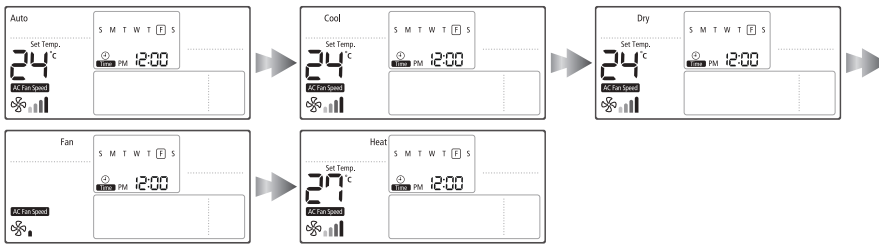
This function produces warm wind so that you can use it in the fall or winter.


- Immediately after starting the heating operation, the air conditioner system may stop producing any wind at all for a while to avoid generating any cold wind.
- Defrost indicator (Defrost)
 - If you start removing frost from the outdoor unit during heating operation, the indicator will turn on. When defrosting is over, the indicator will turn off.
(When the frost is being removed, the indoor unit does not generate any breeze.)
- If you stop the air conditioner after the heating operation, the air conditioner will produce some wind to discharge all the heat from the indoor unit.
- If you select the cooling operation during heating operation, then the heating operation is canceled.

















Press the  button to begin operating the air conditioner.

Press the  button to select the desired operation.



Press the  button to select a fan speed.

Auto	 (Auto)
Cool	 (Low),  (Medium),  (High),  (Auto)
Dry	 (Auto)
Fan	 (Low),  (Medium),  (High)
Heat	 (Low),  (Medium),  (High),  (Auto)

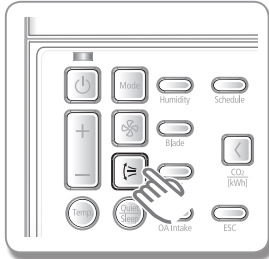
Press the  button to set the desired temperature.

Auto	You can adjust the desired temperature by 1°C(1°F) within a range of 18°C~30°C(65°F~86°F).
Cool	You can adjust the desired temperature by 1°C(1°F) within a range of 18°C~30°C(65°F~86°F).
Dry	You can adjust the desired temperature by 1°C(1°F) within a range of 18°C~30°C(65°F~86°F).
Fan	You can't change the desired temperature.
Heat	You can adjust the desired temperature by 1°C(1°F) within a range of 16°C~30°C(61°F~86°F).

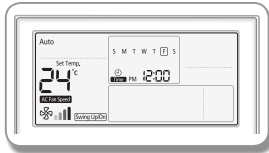
Air Swing

This function allows you to shift the air flow direction up and down.

Press the **Air Swing** (≡) button to tilt the blade up and down.



- ▶ Press the **Air Swing** (≡) button one more time to set the air flow direction, when the blade reaches the desired position. The up/down tilting of the blade will stop in place.



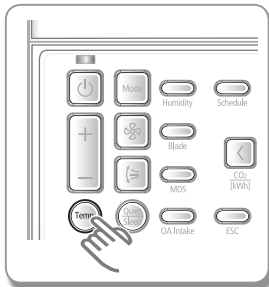
NOTE

- With the duct type indoor unit, the air flow direction cannot be adjusted. If you press the **Air Swing** (≡) button, the **Restricted** lamp will appear.

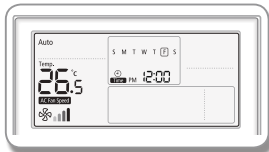
Indoor Temperature Checking Function

This function allows you to check the current indoor temperature.

Press the **Indoor Temp.** button to check the current indoor temperature.



- ▶ The current indoor temperature will be displayed.
- ▶ 3 seconds after displaying the indoor temperature, the set temperature will appear.



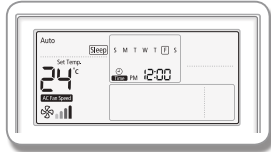
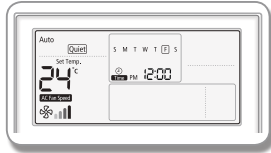
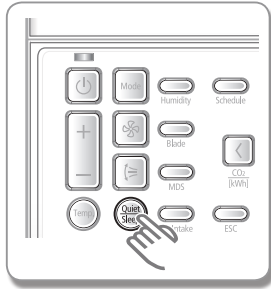
NOTE

- Indoor unit temperature will be indicated by 0.5°C(1°F) units.
- Depending on the installation location of your Wired Remote Controller, the current indoor temperature can be different.
- If the temperature display setting is set to indoor temperature and you press the **Temp.** button, then the **Restricted** lamp will appear.

Quiet / Sleep Operation

Quiet operation reduces noise of the operation and with sleeping operation you can have the air conditioner turn off automatically after six hours without stopping the operation in the middle of the night.

Press the **Quiet/Sleep** button to select the desired operation.



If the air conditioner has both quiet and sleep operation function.

Auto	Quiet → Cancel is repeated.
Cool	Quiet → Sleep → Quiet/Sleep → Cancel is repeated.
Dry	Quiet → Cancel is repeated.
Fan	Restricted lamp will appear.
Heat	Quiet → Sleep → Quiet/Sleep → Cancel is repeated.

If the air conditioner has quiet operation function only.

Auto	Quiet → Cancel is repeated.
Cool	Quiet → Cancel is repeated.
Dry	Quiet → Cancel is repeated.
Fan	Restricted lamp will appear.
Heat	Quiet → Cancel is repeated.

If the air conditioner has sleep operation function only.

Auto	Restricted lamp will appear.
Cool	Sleep → Cancel is repeated.
Dry	Restricted lamp will appear.
Fan	Restricted lamp will appear.
Heat	Sleep → Cancel is repeated.



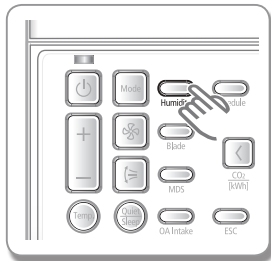
NOTE

- If the air conditioner does not support the quiet and sleep operation, **Restricted** will appear when you press **Quiet/Sleep** button.

Humidifying Operation

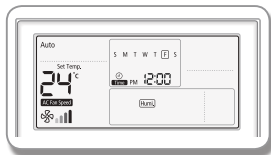
This function allows you to use the humidifying operation of MINI AHU indoor unit when the Wired Remote Controller is connected to MINI AHU indoor unit. Increase the moisture of dry indoor air and adjust the indoor humidity for a more refreshing indoor environment.

While the air conditioner is on, press the **Humidity button to begin the humidifying operation.**



▶ **Humi.** will be displayed and the humidifying operation will start.

Cancel Press the **Humidity** button one more time.

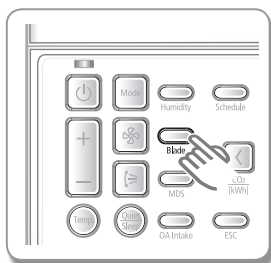


NOTE If the indoor unit is turned off or it does not support humidifying operation, and you have pressed the **Humidity** button, then the **Restricted** lamp will be displayed.

Blade Selection

Select only the desired blade to set Air Swing function.

When the air conditioner is on

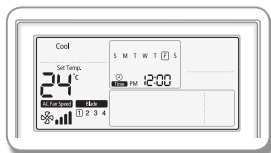


1. Press the **Blade** button to select a blade to set the wind direction.

▶ Each time you press the button, it will toggle between 1 2 3 4 → 1 → 2 → 3 → 4.

▶ The number corresponding to the selected blade will blink.

2. Press the **Air Swing** button to select the up/down direction of the selected blade.

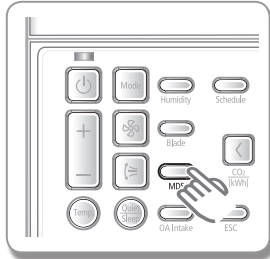


NOTE Depending on the individual setting, a different blade could be selected.
If the indoor unit is off or the blade selection function is not supported, and you have pressed the **Blade** button, then the **Restricted** lamp will be displayed.

Motion Detect Sensor

Automatically turn off the power when there is nobody in the room.

Press the **MDS** button to use the motion detection function.

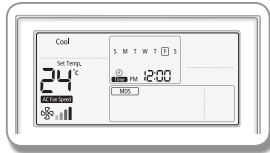


- ▶ **MDS** will be displayed and the motion detection function will begin operation.

Cancel Press the **MDS** button one more time.

When the wired remote controller is connected with a duct

- ▶ **MDS** will be displayed and AWAY operation will operate.

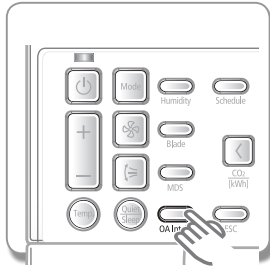


- If an indoor unit does not support MDS or AWAY operation, but you press the **MDS** button, the **Restricted** lamp will be displayed.

Outdoor Air Intake

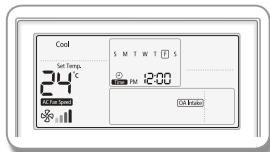
When a Wired Remote Controller is connected to the MINI AHU indoor unit, you can use Air Intake function for the MINI AHU indoor unit.

When the air conditioner is on, press the **OA Intake** button to select the outdoor air intake function.



- ▶ **OA Intake** will be displayed and the function will begin operation.

Cancel Press the **OA Intake** button one more time.

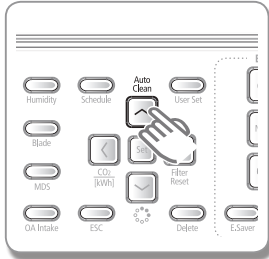


- If the indoor unit is off or the outdoor air intake function is not supported, and you have pressed the **OA Intake** button, then the **Restricted** lamp will appear.

Auto Cleaning Function

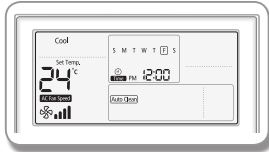
This function will automatically clean the filter equipped inside the air conditioner.

Press the **Auto Clean** button to select the auto cleaning function.



▶ **Auto Clean** will be displayed and the auto cleaning function will start.

Cancel Press the **Auto Clean** button one more time.



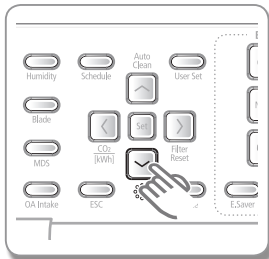
NOTE

- If the indoor unit does not support the auto cleaning function, and you have pressed the **Auto Clean** button, then the **Restricted** lamp will appear.
- When the auto clean function is operating arbitrarily according to the indoor unit operation, **Auto Clean** will be displayed.

S-Plasma Ion

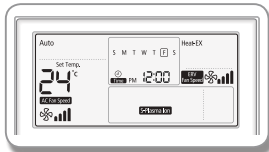
Eliminate all the viruses, fungi, and even active oxygen in your indoor air.

When the air conditioner is on, press the **S-Plasma Ion** button to select the S-Plasma Ion function.



▶ **S-Plasma Ion** will be displayed and the S-Plasma Ion function is activated.

Cancel Press the **S-Plasma Ion** button one more time.



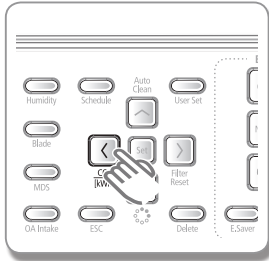
NOTE

- If the indoor unit is turned off or the S-Plasma Ion is not supported, and you have pressed the **S-Plasma Ion** button, then the **Restricted** lamp will appear.
- This button may not operate in an Ventilator(ERV), but it will be displayed if the S-Plasma Ion is installed for operation in an Ventilator(ERV).

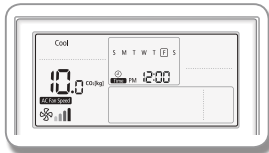
CO₂/Power Consumption Check

Displays the amount of CO₂ generated to produce the power required for air conditioner operation and the amount of power consumption.

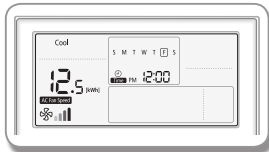
When the air conditioner is on



Press the [CO ₂ /kWh] button once.	Press the [CO ₂ /kWh] button twice.	[Press the [CO ₂ /kWh] button three times.
The amount of generated CO ₂ is displayed.	The power consumption is displayed.	The desired temperature is displayed.



Press the [CO₂/kWh] button once.



Press the [CO₂/kWh] button twice.



- If you don't press any button for 10 seconds, the desired temperature will be displayed.
- If the indoor unit is turned off or the CO₂[kg]/[kWh] display is not supported, and you have pressed the **CO₂/[kWh]** button, then the **Restricted** lamp will appear.

VENTILATOR (ERV)

Basic Operation of Ventilator(ERV)

Basic operations can be selected by pressing the **Mode** button.

Heat-EX

Energy loss is minimized by recovering energy exhausted when indoor heating or cooling.

Quiet

Reduce the noise generated from Ventilator(ERV) operation.

Outing

This function allows you to operate the Ventilator(ERV) while you are away from home.

- If the operational status is changed by another controller, the Outing Operation is canceled.

By-Pass

This activates the intake of external air so that it comes indoors.

Auto

This can be automatically adjusted depending on the degree of pollution in your indoor air.

Purifier

This cleans and purifies your air.

- You can use this function after connecting the Ventilator(ERV) to the IAQ.

Heat-EX/Purifier

This can simultaneously operate the Heat-ex mode with purifier mode.

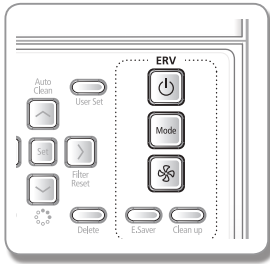
By-Pass/Purifier


This function can clean the air through an intake of fresh external air.

Intake fresh air will be purified at the same time when this function is used.

Auto/Purifier

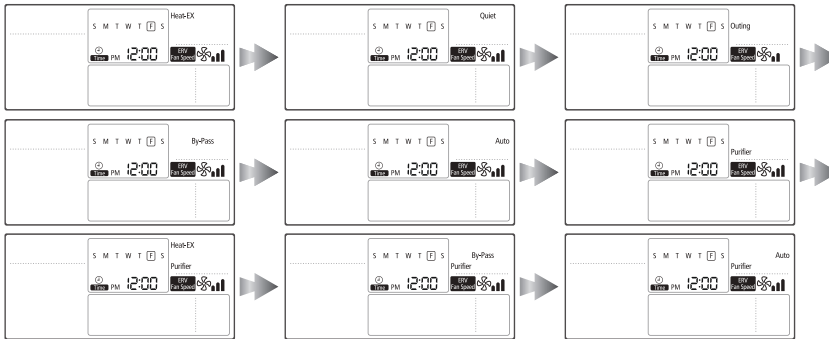
This function can automatically perform Ventilator(ERV) and cleaning at the same time.



























Press the  button to begin the Ventilator(ERV) operation.





Press the  button to select the desired operation.

- The following operation can only take place if all the options for your Ventilator(ERV) are selected. (When you install the Wired Remote Controller, the setting is available.)



Press the  button to change the fan speed.

Heat-EX	 (High) ▷  (Turbo) ▷  (Low)
Quiet	Can't change the fan speed.
Outing	 (Low)
By-Pass	 (High) ▷  (Turbo) ▷  (Low)
Auto	 (High) ▷  (Turbo) ▷  (Low)
Purifier	 (High) ▷  (Turbo) ▷  (Auto) ▷  (Low)
Heat-EX/Purifier	 (High) ▷  (Turbo) ▷  (Low)
By-Pass/Purifier	 (High) ▷  (Turbo) ▷  (Low)
Auto/Purifier	 (High) ▷  (Turbo) ▷  (Low)

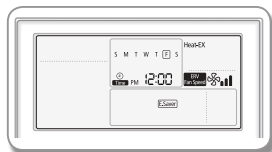
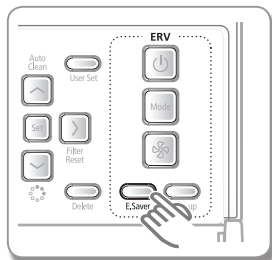
※ After installing a CO₂ sensor in your Ventilator(ERV), you can select from  (High) ▷  (Turbo) ▷  (Auto) ▷  (Low).

(Exception : Quiet Operation, Outing Operation)

Energy Saving Operation

Reduce your power consumption and save money on your electric bill.

Press the **E.Saver** button to select Power Saving Operation.



When the ventilator (ERV) and the air conditioner is connected together

- ▶ This function compares the outdoor and indoor temperatures, and then automatically selects Heat-EX operation or By-Pass operation.

When the ventilator (ERV) is installed individually (Setting On/Off alternating operation)

- ▶ The ventilator (ERV) will turn On and Off in Quiet (Low) mode every 30 minutes.

When the ventilator (ERV) is installed individually (Setting outdoor air cooling operation for different temperature setting)

- ▶ Temperature can be adjusted with Temperature setting button.
- ▶ Either Heat-EX or By-Pass mode will be selected and operate depending on the set temperature.

Cancel Press the **E.Saver** button one more time.

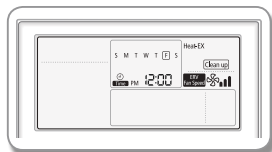
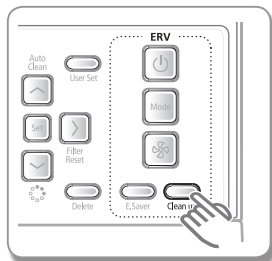


- Energy Saving Operation may not activate when central control, external control, or a exhaust hood is used.
- When the Air conditioner is connected individually, Energy Saving Operation is not available.

Clean Up

Prevent odor and dust from getting in to the area where you are by making the airflow input bigger than the airflow output.

When the ventilator(ERV) is on, press the **Clean Up** button to select the clean up function.



- ▶ **Clean up** is displayed and the clean up function is activated.

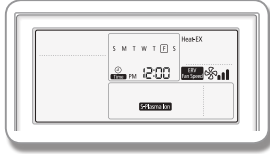
Cancel Press the **Clean Up** button one more time.



- If the ventilator(ERV) is on or the clean up function is not supported, and you have pressed the **Clean Up** button, then the **Restricted** lamp will appear.

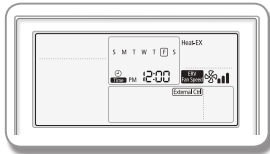
S-Plasma Ion

Using the Virus Doctor function, you can remove virus, fungi, and even active oxygen.



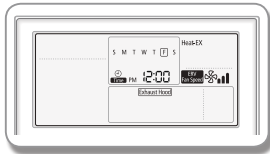
- ▶ If the S-Plasma Ion function is installed in your ventilator(ERV) or indoor unit, then **S-Plasma Ion** will be displayed and the S-Plasma Ion function will begin operation.

External Interconnection Control



- ▶ When connecting a ventilator(ERV) to the indoor unit of the air conditioner, you can turn your ventilator(ERV) on or off depending on whether the indoor unit's on or off.
- ▶ Even during the external controls, you can use your remote controller to control ventilator(ERV).

Exhaust Hood Interconnection Control

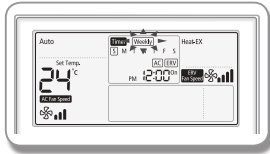


- ▶ When the ventilator(ERV) or MINI AHU indoor operates in another mode, it will be indicated if the Exhaust hood interconnection is achieved. If you change operation during Exhaust hood interconnection, the newly selected operation will appear on the screen.
- ▶ You cannot control the Exhaust hood with your remote controller.

ADVANCED INSTRUCTION

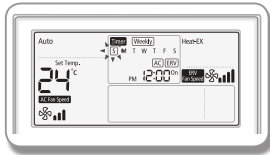
Weekly Schedule Setting

You can select a day and time to start and stop operation.



1. Press the **Schedule** button.

- ▶ (weekly) will be displayed. At that time, press the [Λ]/[V] buttons to select 'weekly' from the option of 'weekly' and 'holiday'.

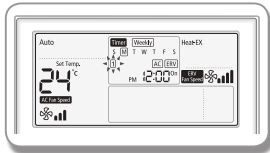


2. Press the [>] button and select the 'Day' for your schedule.

- ▶ You can press the [Λ]/[V] buttons to select a scheduled day (Sun~Sat).



- You can select many days for multiple schedules. In this case, you should directly move to "Schedule Device" selection without selecting a schedule number.

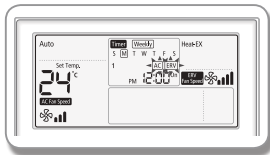


3. Until your reservation number is displayed, press the [>] button to select a "Schedule Number."

- ▶ Press the [Λ]/[V] buttons to select a Schedule Number (1~6).
- ▶ If no schedule is chosen, then the edge of the box for the schedule number and the schedule number will blink.



- If the schedule is already set, then the square boxes surrounding the schedule number will blink. If you want to change it, then select a schedule number.

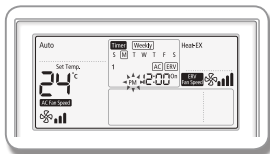


4. Press the [>] button and select 'Schedule Device.'

- ▶ Press the [Λ]/[V] buttons repeatedly to select a device setting from among Air Conditioner + Ventilator(ERV), Air Conditioner, or Ventilator(ERV).
- ▶ You can only select a Schedule Device that is connected.

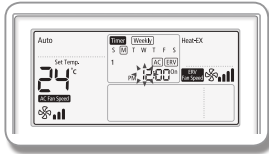
Refer to the table below for the setting order according to the option of schedule device.

Classification	Setting order
Air-conditioner + Ventilator(ERV)	5→6→...→15
Air-conditioner	5→6→...→11→14→15
Ventilator(ERV)	5→...→8→12→...→15



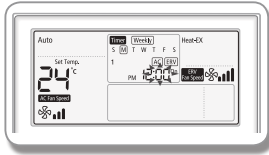
5. After pressing the [>] button, select 'AM/PM.'

- ▶ Press the [Λ]/[V] buttons to select AM or PM for the time.



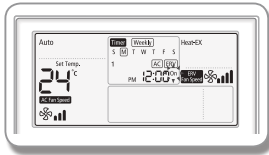
6. After pressing the [➤] button, select the 'Hour.'

- ▶ Press the [▲]/[▼] button to select the hour setting for the time.



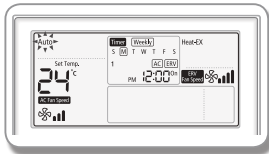
7. After pressing the [➤] button, select the 'Minute.'

- ▶ Press the [▲]/[▼] button to select the minute setting for the time.



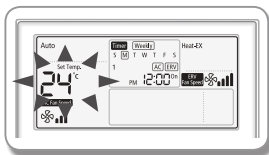
8. After pressing the [➤] button, select the "On/Off" schedule.

- ▶ Press the [▲]/[▼] buttons repeatedly to select either On or Off.
- ▶ If you select 'Off', follow 14→15.



9. After pressing the [➤] button, select the Air Conditioner Related Operation Mode.

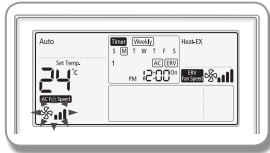
- ▶ You can only use this for air conditioner on-operation scheduling.
- ▶ Press the [▲]/[▼] buttons repeatedly to select from (Auto)➤(Cool)➤(Dry)➤(Fan)➤(Heat) operation. Depending on the option setting, automatic or heating operation sometimes cannot be selected.
(When you install the Wired Remote Controller, the setting is available.)



10. Press the [➤] button and select the desired temperature.

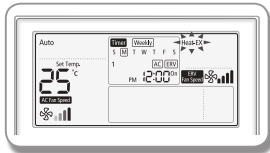
- ▶ You can only use this for air conditioner on-operation scheduling.
- ▶ Press the [▲]/[▼] buttons repeatedly to set the temperature by 1°C(1°F).
If fan operation is selected, you can't set the desired temperature.

Weekly Schedule Setting



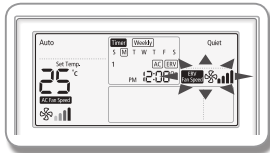
11. After pressing the [>] button, select a fan speed.

- ▶ You can only use this for air conditioner on-operation scheduling or when the operational mode is in Cool/Fan/Heat.
- ▶ Press the [Λ]/[V] buttons repeatedly to toggle the fan speed in order of (Low) > (Medium) > (High) > (Auto). If Auto operation or Dry operation is selected, then you can't set the fan speed.



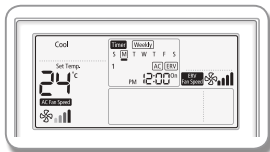
12. After pressing the [>] button, select the ventilator(ERV) related operation mode.

- ▶ You can only use this for Heat-Ex on-operation scheduling.
- ▶ Press the [Λ]/[V] button, select the ERV related operation mode: (Heat EX) > (Quiet) > (Outing) > (Bypass) > (Auto) > (Purifier) > (Heat-Ex / Purifier) > (By-Pass / Purifier) > (Auto / Purifier)



13. After pressing the [>] button, select a fan speed for ventilator(ERV).

- ▶ You can only use this for Heat-Ex on-operation scheduling.
- ▶ Press the [Λ]/[V] buttons repeatedly to set the fan speed, in order of (High) > (Turbo) > (Medium).



14. Press the **Set** button to complete the weekly schedules.

- ▶ ' ' is displayed for the selected day, and it will be saved in three seconds. [e.g. when Monday is reserved (M)]
- ▶ If you need to make additional schedules, start again from the weekly and holiday screen.

15. Press the **Esc** button to exit to By-Pass mode.



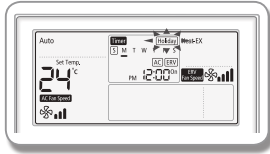
NOTE

- If you want to cancel your weekly schedules while you are setting them, then press the **Esc** button.
- If "centralize control" is set, then you can still set a weekly schedule, but it won't be actually executed.

Setting Holidays during the Weekly Schedule

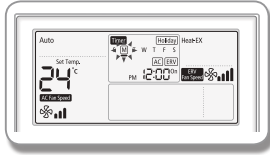
You can select holidays during the weekly schedule.

If you set the holiday, the set weekly schedule function will not operate.



1. Press **schedule** button.

- ▶ (schedule) will be displayed, press [Λ]/[V] button to select 'Holiday' from the option of 'weekly' and 'holiday'.



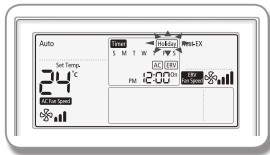
2. Press [➤] button and select the 'Day' for the holiday during the weekly schedule.

- ▶ You can select the holidays (Sun~Sat) by pressing [Λ]/[V] button.

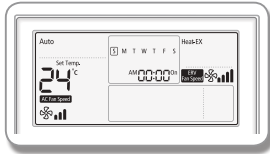


NOTE

- You can select several days for multiple settings.



3. Press **Set** button to complete the holiday of weekly schedule setting.



4. Press the **Esc** button to exit to By-Pass mode.

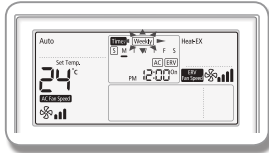


NOTE

- If you want to cancel your holiday of weekly schedule while you are setting them, press the **ESC** button.
- You can set the holidays only with the dates with weekly indicator '_'.
- The weekly indicator '_' of the dates set as holidays will disappear on the display.

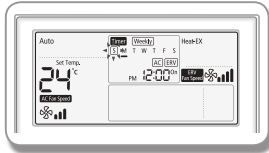
Canceling a Weekly Schedule

You can cancel your weekly schedule.



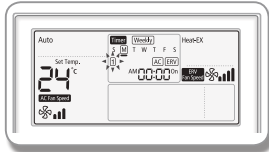
1. Press the **Schedule** button.

▶ (Schedule) is displayed and (Weekly) will blink.



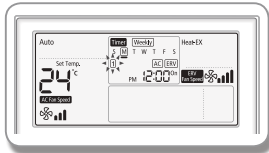
2. After pressing the [**>**] button, select 'Day' to cancel.

▶ You can press the [**^**]/[**v**] button to select a scheduled day.

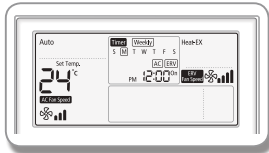


3. After pressing the [**>**] button, select a 'schedule number' to cancel.

▶ Press the [**^**]/[**v**] button to select a schedule number (1~6).



4. Press **Delete** button to cancel the weekly schedule setting you made.

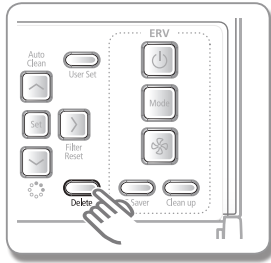


5. Press **Set** button to save the cancellation of your weekly schedule.

6. Press the **Esc** button to exit to general mode.

Initializing a Weekly Schedule

You can initialize all the weekly schedules set in your Wired Remote Controller.



1. Press the **Delete** button for five seconds.

▶ All the weekly schedule settings will be erased.

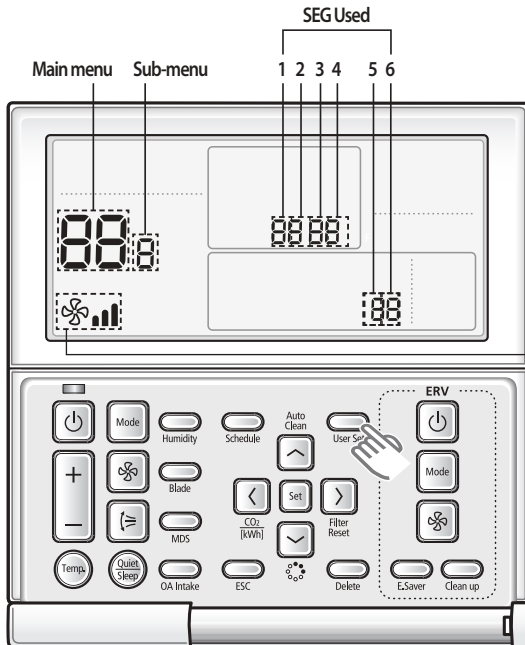


NOTE

- You can't restore your old settings after deleting the weekly schedule by pressing the **Delete** button, so be careful when you use this function.

SETTING ADDITIONAL USER FUNCTIONS

How to Set the Additional User Functions



When entering the smart tuning mode, auto fan speed will be displayed (Main menu 8).

1. If you want to set the detailed settings, press the **User Set** button.

- ▶ You will enter the User Set mode, and the [Main Menu] will be displayed.

2. Refer to the Wired Remote Controller's User Set list on the next page to select the desired menu.

- ▶ Using the [**▲**]/[**▼**] buttons, select a main menu number and press the [**▶**] button to enter the sub-menu setting screen.
- ▶ Using the [**▲**]/[**▼**] buttons, select a sub-menu number and press the [**▶**] button to enter the data setting screen.
- ▶ Once you have entered the setting screen, the current setting will be displayed.
- ▶ Refer to the chart for data setting.
- ▶ Using the [**▲**]/[**▼**] buttons, change the settings and press the [**▶**] button to move to the next setting.
- ▶ Press the **Set** button to save the setting and exit to the sub-menu setting screen.
- ▶ Press the **Esc** button to exit to general mode.



NOTE

- While setting the data, you can use the [**▶**]/[**<**] buttons to set the range of SEG used.
- While configuring the setting, press the **Esc** button to exit to the sub-menu setting screen without saving the setting.

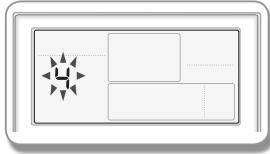
Main Menu	Sub menu	Functions	SEG Used	Default	Range	Unit	
1		Auto stop time setting/checking	1,2	0	0~12 hours	1 hour	
2		Temp limits [°C(°F)]	Lower Limit	1,2	16(61)	16~30°C (61~86°F)	1°C(1°F)
			Upper Limit	3,4	30(86)	18~30°C (65~86°F)	1°C(1°F)
3		All locking		1	0	0-Unlock, 1-Lock	-
		Lock of partial button	Lock of Operation On/Off button	2	0	0-Unlock, 1-Lock	-
			Lock of operation selection button	3	0	0-Unlock, 1-Lock	-
			Lock of temperature setting button	4	0	0-Unlock, 1-Lock	-
			Lock of fan speed button	5	0	0-Unlock, 1-Lock	-
			Lock of schedule setting button	6	0	0-Unlock, 1-Lock	-
4	1	Current Temperature Setting (Year, Month, Date)	1,2/3,4/5,6	10/01/01	00~99/1~12/1~31	YY,MM,DD	
	2	Current Time Setting (Day, Hour, Minute)	Day/AM/PM/1,2/3,4	Friday/PM/12/00	Sun~Sat/AM~PM/0~12/0~59	Day, hour, minute	
5	1	Summer Time Use and Setting Methods	Use of summer time (Y/N)	1	0	0-No use, 1-Use	-
			Summer Time Application Method	2	0	0- Weekly,1- Daily	-
	2	Summer time use (Weekly) Start (? Month, ? th Sunday)	1,2/4	03/F	1~12th month/ 1~4,F (last week)th week	-	
	3	Summer time use (Weekly) End (? Month, ? th Sunday)	1,2/4	10/F	1~12 month/ 1~4,F (last week)th week	-	
	4	Summer time use (Daily) Start (? Month, ? th Sunday)	1,2/3,4	03/22	Jan~Dec/1~31st day	Month, date	
5	Summer time use (Daily) End (? Month, ? th Sunday)	1,2/3,4	09/22	Jan~Dec/1~31st day	Month, date		
6		Backlight Time Setting/Checking		1,2	5	0~30 sec	1 sec
		Use of LED(Green) (Y/N)		3	1	0-No use, 1-Use	-
		Use of LED (Red) (Y/N)		4	1	0-No use, 1-Use	-
7		Ventilator (ERV) delay time setting/checking [When using Ventilator (ERV) interlocking control]	Ventilator(ERV) Delay Application (Y/N)	1	0	0-No use, 1-Use	-
		Delay Time		3,4	30	30~60 minutes	1 minute
8		Smart tuning	1,2	0	-2~+2	1	
0		Reset to user mode defaults (except the current time)	1	0	0-No use, 1-Reset	-	



- 'NONE' will be displayed if the indoor unit does not support the function.
In some cases, the setting may not possible or it may be not applied though it is set on the unit.
- Summer time: Practice of temporarily advancing clocks during the summertime.

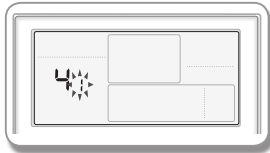
How to Set the Additional User Functions

Current Time Setting (Example)



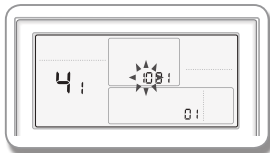
1. Press the **User Set** button.

- ▶ (Main Menu) will be displayed, and you can press the [▲]/[▼] buttons to select No. 4, which will set the current time.



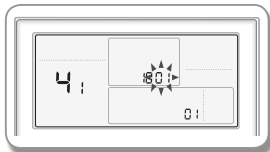
2. Press the [▶] button to select 'Year, Month, Date' in the [Sub-menu].

- ▶ Press the [▲]/[▼] buttons to select No. 1. You can modify the year/month/date setting.



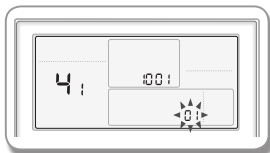
3. Press the [▶] button to select the 'Year'.

- ▶ Press the [▲]/[▼] buttons to select the year ('00~'99).



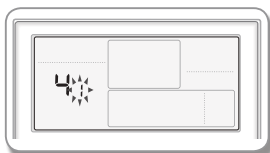
4. Press the [▶] button to select the 'Month'.

- ▶ Press the [▲]/[▼] buttons to select month(01~12).



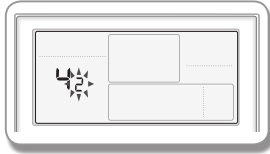
5. Press the [▶] button to select the 'Date'.

- ▶ Press the [▲]/[▼] buttons to select date(01~31).



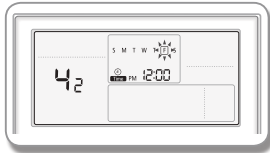
6. Press the **Set** button to complete your setting of 'Year, Month, Date'.

- ▶ The setting changes will be applied and you can exit to the sub-menu.



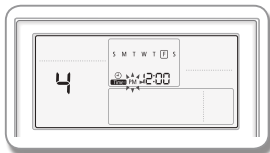
7. In the sub-menu, select 'day, AM/PM, hour, minute'!

- ▶ Press the [Λ]/[V] buttons to select no. 2. You can set the 'day, AM/PM, hour, minute'.



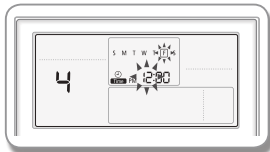
8. Press the [➤] button to select the 'Day'!

- ▶ Press the [Λ]/[V] buttons to select day (Sun~Sat).



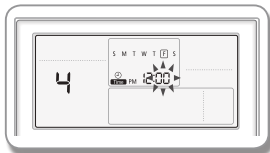
9. Press the [➤] button to select 'AM or PM'!

- ▶ Press the [Λ]/[V] buttons to toggle between AM and PM.



10. Press the [➤] button to select the 'Hour'!

- ▶ Press the [Λ]/[V] buttons to select the hour (01~12).



11. Press the [➤] button to select the 'Minute'!

- ▶ Press the [Λ]/[V] buttons to select minute (00~59).

12. By pressing the **Set** button, you can complete modifying the setting for the current time.

- ▶ The setting changes are applied and you can exit to general mode.

13. Press the **Esc** button to exit to general mode.