Single Package Air Conditioner
OWNER'S MANUAL

- Please read carefully and thoroughly this manual before operating this unit.
- Contact the authorized SVC man for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.

OPERATING TEMPERATURE (°C)

COLLING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
32	21	43	21
HEATING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
27	20	24	1

Prior to installatio[illegible]is air-conditioning unit must be su[illegible]ted for approval by the utility service[illegible]h provides electricity (EN 61000[illegible]m).

Safety Precautions
Warning 2

Operating Instructions
The remote controller on the system 3
How to use the Operation Mode Selection Button 5
Additional Features.....11

Care and Maintenance
Care and Maintenance 13
When the air conditioner is not going to be used for a long time.....14
Operation Tips 14

Troubleshooting tips
Before You Call For Service.....15

Safety precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring of instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ WARNING

This symbol indicates the possibility of death or serious injury.

⚠ CAUTION

This symbol indicates the possibility of injury or damage to properties only.

⚠ WARNING

■ **Do not install, remove and reinstall the unit by yourself.**
- Improper installation will cause water leakage, electrical shock, or fire. Please consult authorized dealer or specialist for the installation work. Please note fault caused by improper installation is not covered by warranty.
- Unit must be installed in an easily accessible area. Any additional cost required to hire a special equipment to service the unit will be the responsibility of the customer.

⚠ WARNING

- It will cause an injury by the fan.
- It may cause an injury.
- It will cause electrical shock.

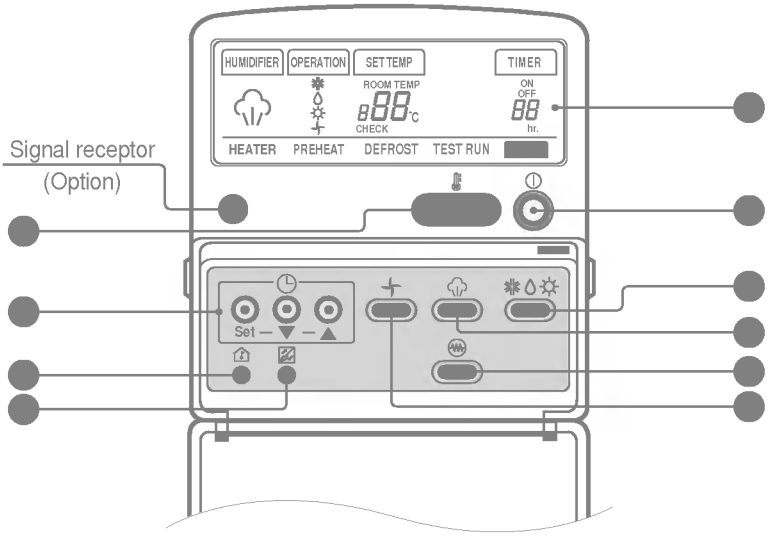
- It may cause an injury.
- Besure to disconnect all electric power before filter cleaning.
- If not, dirt may collect and cause a fire.

- If the unit continues to operate in an abnormal condition, it may cause fire, damage, etc. In this case, consult your dealer.
- If these are done incorrectly, it may cause a fire, electric shock, injury. Consult your dealer.

The remote controller on the system

The remote controller transmits the signals to the system.

Features of the Remote Controller- Door Open



Operation display
Displays the operating conditions.

On/Off Button
Operation starts when this button is pressed, and stops when the button is pressed again.

Set Temperature Button
Used to set the temperature when the desired temperature is obtained.

FAN Operation Button
Used to circulate room air without cooling or heating.

Humidifier ON/OFF Button
Used to turn on a humidifier when a humidifier is installed.

Operation Mode Selection Button
Used to select the operation mode.
- Cooling Operation Mode.
- Soft Dry Operation Mode.
- Heating Operation Mode.(except Cooling only Model)

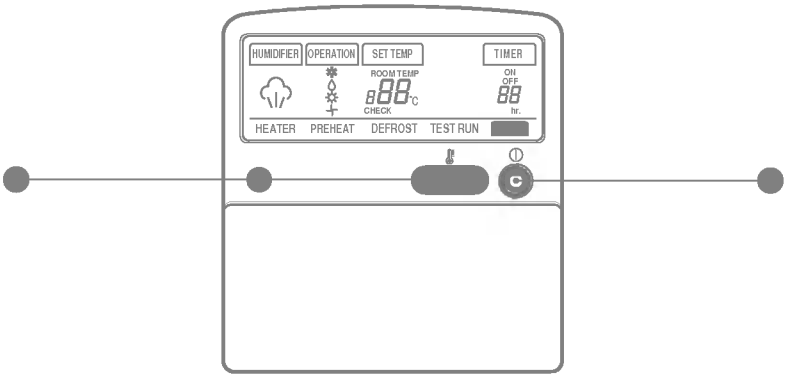
Timer Set Button
Used to set the timer when the desired time is obtained.

Room Temperature Checking Button
Used to check the present room temperature.

Heater Button
Used to turn on an electric Heater when an electric heater is installed.

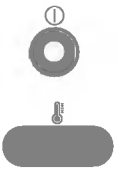
Filter Sign Deleting Button
Used to delete Filter cleaning sign.

Features of the Remote Controller- Door Closed



ON/OFF BUTTON

Operation starts when this button is pressed and stops when the button is pressed again.



ROOM TEMPERATURE SETTING BUTTONS

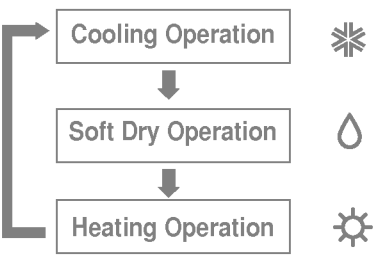
Used to set the room temperature.

Although the air conditioner is turned off by a power failure, it is restarted automatically in the previous operation mode after a power recovery.

Operation Mode



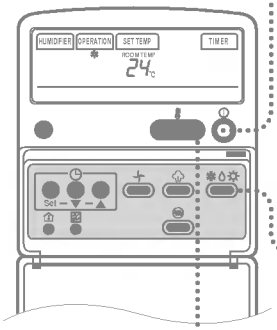
(Cooling only model)



(Heat Pump Model)

How to use the Operation Mode Selection Button

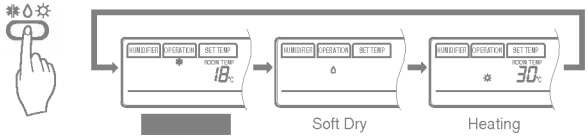
Cooling Operation



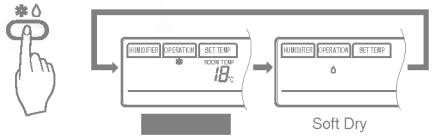
1 Press the ON/OFF button.



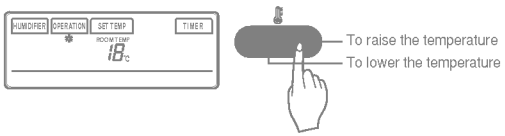
2 Open the door of the remote controller. To select **Cooling operation**, press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



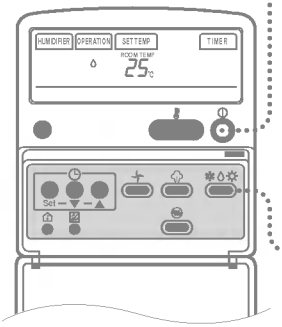
COOLING ONLY MODEL



3 Set the temperature lower than the room temperature. The temperature can be set within a range of 18℃~30℃ in 1℃ increment.



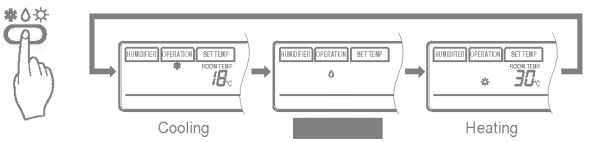
Soft Dry Operation



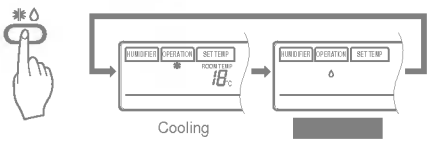
1 Press the ON/OFF button.



2 Open the door on the remote control. To select **Soft Dry operation,** press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

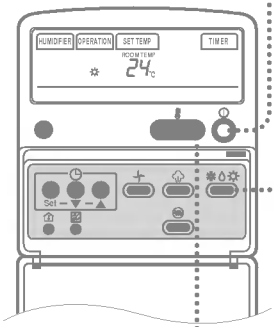


COOLING ONLY MODEL



3 In this mode, desired temprature will disappear.
It is impossible to set temperature, when you have selected Soft Dry operation.

Heating Operation(Heat pump model only)

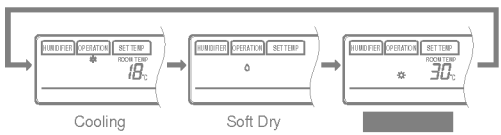


1 Press the ON/OFF button.



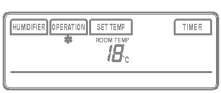
2 Open the door on the remote control. To select **Heating operation,** press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

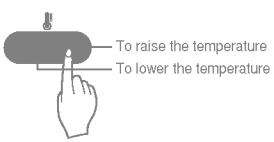




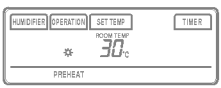
Cooling Soft Dry

3 Set the temperature higher than the room temperature. The temperature can be set within a range of 16℃~30℃ in 1℃ increments.

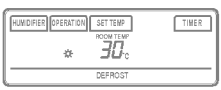




4 This air-conditioner is set to the hot start control in order not to discharge the cold air during the heating operation. This time, the remote controller indicates 'PREHEAT'.

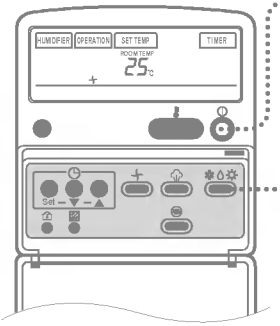


5 If the outdoor temperature is too low during the heating operation, this air-conditioner is set to the defrosting operation and the remote controller indicates 'DEFROST'.



Air Circulation Mode(Fan Operation Mode)

Circulate the room air without cooling or heating.

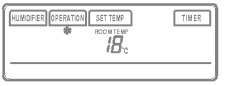


1 Press the ON/OFF button.



2 *Open the door of the remote controller. Press the Fan button.*

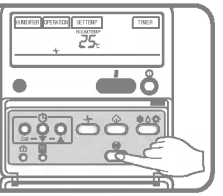




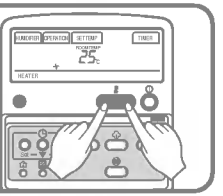
3 If you want to change this mode, press operation selection button.
Selecting this mode, it is impossible to change the desired temperature.

Electric Heater Operation Mode(Electric Heater is an option) (Cooling Model only)

1 Open the door of remote controller. Press the heater button. (Operation will start after 10 seconds.)



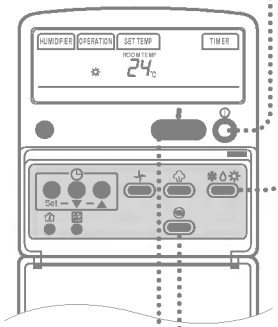
2 Set the temprature upper than the room temprature.
The temprature can be set within a range of 16˚C~30˚C in 1˚C increment.



3 To stop this operation, press the electric heater operation button once again or ON/OFF button, then all functions will stop.
If the Micom takes the singnal of stopping this mode, approximately 60 seconds delay time is set to cool the electric heater.

4 In Cooling Mode and Fan Operation Mode, it is impossible to operate this Mode.

Heating & Electric Heater Operation Mode(Electric Heater is an option) (Heat pump Model only)

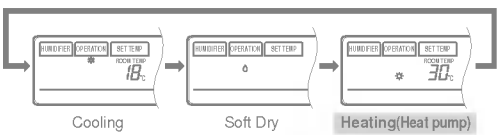


1 Press the ON/OFF button.



2 Open the door on the remote control. To select Heating operation, press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.





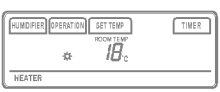
Cooling Soft Dry **Heating(Heat pump)**

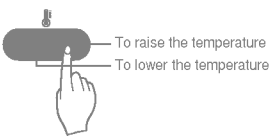
3 Press the heater button. (Operation will start after 10 seconds.)





4 Set the temperature higher than the room temperature. The temperature can be set within a range of 16℃~30℃ in 1℃ increments.





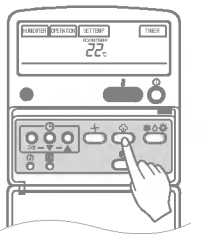
5 To stop this operation, press the electric heater operation button once again or ON/OFF button, then all functions will stop.
If the Micom takes the singnal of stopping this mode, approximately 60 seconds delay time is set to cool the electric heater.

6 In Cooling Mode and Fan Operation Mode, it is impossible to operate this Mode.

Humidifier Mode(Humidifier is an option)

1 Open the door of remote controller. Press the humidifier ON/OFF button.

- It is possible to select humidifier function in Cooling mode, Fan Operation mode or Heating mode. Humidifier will be operated with previous operation mode.

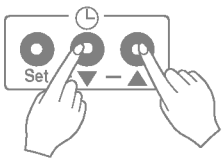


2 Humidifier can be operated alone. If you press humidifier ON/OFF button in operation OFF mode, the humidifier and the indoor fan start operating together and LCD displays "Humidifier" but doesn't display set temperature.

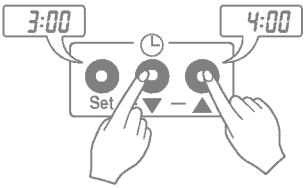
Additional Features

Delay ON/OFF Timer Setting

1. Press the Set buttons to turn Timer ON or OFF.

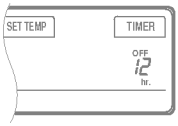


2. Press the Time Setting buttons until the desired time is set. (up to 24 hours)

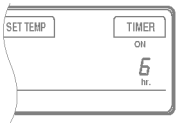


To cancel the set timer.
If you want to cancel the timer Set mode, press again the Set button.

NOTE: *Select one of the following two types of operation.*
Delay "OFF" Timer is selected when the unit is ON.
Delay "ON" Timer is selected when the unit is OFF.



Delay OFF Timer



Delay ON Timer

If the settings are cancelled by a power failure.
Press the On/Off Button, and then set the timer again as desired time according to Timer Setting Procedure.

Fire Alarm Sensing Function

1. In case of fire, the fire alarm will open the contact, and disconnect the controller voltage to the unit.
   Which will shut down the unit immediately.
2. In order to operate to this mode, fire alarm signal wire must be connected to filler terminal in the control box

Auto Restart Function

- After power failure, this unit is designed to restart in previous operation mode .

Self-Diagnosis Function

'CHECK' will flash on the remote controller display when a problem occurs. Then please contact your dealer.

Air-filter Checking Function

- 'FILTER' will display on the remote controller display when an air filter is polluted. Then, clean air filters with reference to Owner's Manual.
- After cleaning air-filters, press filter sign deleting button.

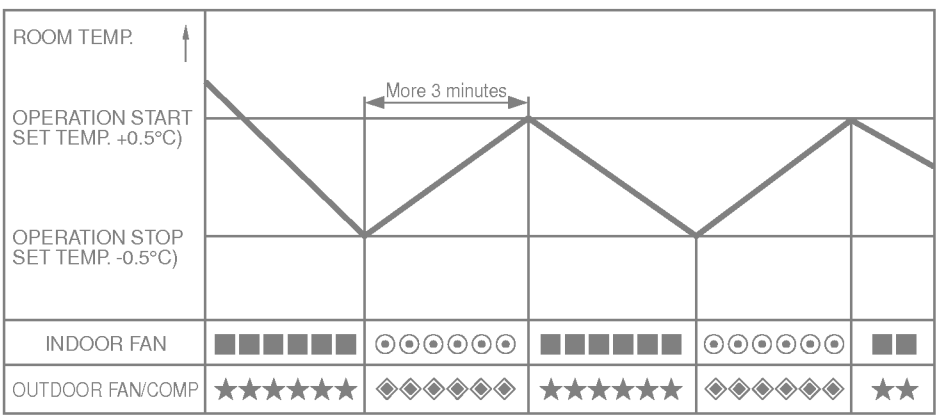
Anti-bacteria Washable Filter(above 6.25RT)

- The Anti-bacteria Filter not only collects dust but also restrains bacteria and fungus from spreading to supply heating and fresh air.
- As Washable Filters, it can be used semipermanently and economically (Reter to page 14 for how to wash it)

Operation Details

Cooling Operation Mode

When the room temperature is higher than the set temperature, it operates in cooling mode at the set temperature +0.5℃, and then it will be in automatically turned off when the room temperature reaches the set temperature -0.5℃.



Care and maintenance

CAUTION: Before performing any maintenance, turn off the main power to the system.

You can do some of the periodic maintenance for your unit yourself; this includes cleaning air filters, cleaning unit cabinet, clearing the condenser coil, and conducting a general unit inspection on a regular basis.

⚠ WARNING

Before removing access panels to service unit, disconnect power supply. Failure to disconnect power before attempting any servicing can result in severe injury or death.

ANTI-BACTERIA-Air Filters (above 6.25RT)

This product has anti-bacteria washable filters. It is very important to keep air filters clean in the central duct system. Be sure to inspect them at least once each month when the system is in constant operation. (In new buildings, check the filters every week for the first 4 weeks.)

Washable type filters can be cleaned by washing with a mild detergent and water. Ensure that the filters are thoroughly dried before reinstalled them in the unit (or duct system).

Condenser coil

Unfiltered air circulates through the unit's condenser coil and can cause the coil's surface to become clogged with dust, dirt, etc.. To clean the coil, vertically (i.e., along the fins) stroke the coil surface with a soft bristled brush.

Keep all vegetation away from the condenser coil area.

Maintenance Performed by Serviceman-Cooling Season

To keep your unit operating safely and efficiently, the manufacturer recommends that a qualified serviceman check the entire system at least once each year, or more frequently if conditions warrant. Your serviceman may examine these areas of your unit:

1. Filters (for cleaning)
2. Motors and drive system components
3. Condenser coils (for cleaning)
4. Safety Controls (for mechanical cleaning)
5. Electrical components and wiring (for possible replacement or connection tightness)
6. Condensate drain (for cleaning)
7. Inspect the unit duct connections to ensure they are physically sound and sealed to the unit casing.
8. Inspect the unit mounting support to see that it is sound.
9. Inspect the unit to ensure there is no obvious deterioration.

Maintenance Performed By Serviceman-Heating Season

Complete the unit inspections and service routines described below at the beginning of each heating season.

- Inspect the controller panel wiring to verify that all electrical connections are tight and that wire insulation is intact.

When the air conditioner is not going to be used for a long time.

[illegible] air conditioner is in cooling [illegible]

1. Operate the air conditioner on Air circulation mode (Reter to page 8) for 2 to 3 hours.
   - This will dry out the internal parts.
2. Turn off the circuit breaker.

⚠ CAUTION

Turn off the circuit breaker when the air conditioner is not going to be used for a long time.
Dirt may collect and may cause a fire.

When [illegible] conditioner [illegible]

1. Clean the air filter and re-install it in the indoor side.

   On the fillter access panel at the left side of the unit, a "Filter access panel" label is attatched.
2. Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.

Helpful information

The air filters and your electric bill.
If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

Operation Tips

[illegible]

This is not good for your health and wastes electricity.

Keep blinds or curtains [illegible]

Do not let direct sunshine enter the room when the air conditioner is in operation.

Clean [illegible] air filter [illegible]

Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects.

⚠ CAUTION

Before removing access panels to draw out air filters, disconnect power supply.
Since the fan rotates at high speed, it may cause a serious injury

❶ **Clean at least once every month using a vacuum cleaner or washing with a neutral detergent in lukewarm water.**

❷ **After washing with water, dry it well in the shade.**
- Do not expose the air filter to direct sunlight or heat from a fire when drying it.

Make sure [illegible] time [illegible]

Avoid opening doors and windows as much as possible to keep the cool air in the room.

Ventilate the room [illegible]

Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

Before you call for service...

Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the fault persists, please contact your dealer or service center.

Case	Explanation	See page
Does not operate.	• Have you made a mistake in timer operation?	
	• Has the fuse blown or has the circuit breaker been tripped?	-
The room has a peculiar odor.	• Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room.	-
It seems that condensation is leaking from the air conditioner.	• Condensation occurs when the airflow from the air conditioner cools the warm air.	-
Air conditioner does not operate for about 3 minutes when restarted.	• This is the Protection device of the air conditioner. • Wait about three minutes and operation will begin.	-
Does not cool or heat effectively.	• Is the air filter dirty? See air filter cleaning instructions.	14
	• The room may have been very hot when the air conditioner was first turned on. Allow time for it to cool down.	-
	• Has the setting temperature been set incorrectly? • Are the unit's air inlet or outlet vents obstructed?	-
The air conditioner operation is noisy.	• For a noise that sounds like water flowing. -This is the sound of freon flowing inside the air conditioner unit.	-
Remote controller display is faint, or no display at all.	• Has the circuit breaker been tripped?	



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