



OPERATION INSTRUCTIONS

MINI-SPLIT HEAT PUMP

FOR MODELS:

MS412HP13240A
MS418HP13240A

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TECHNICAL SUPPORT

IF YOU NEED TECHNICAL SUPPORT PLEASE CALL

1-(704)504-8590

SAFETY & OPERATION NOTES

SAFETY

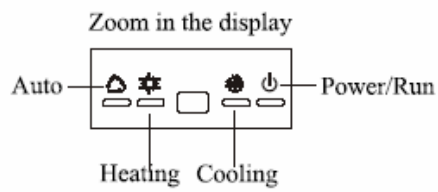
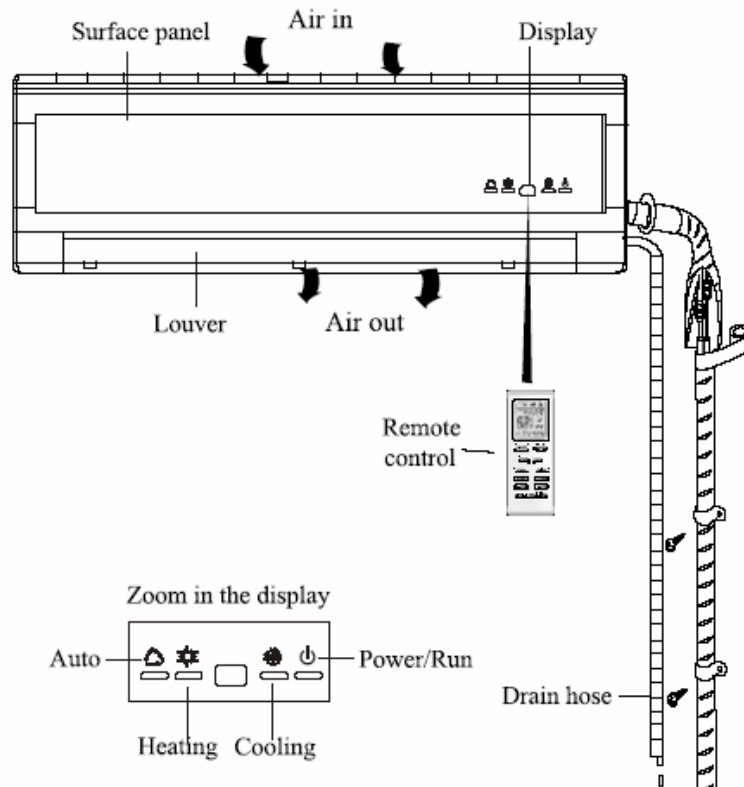
- Earth: The ground *MUST* be connected properly by a certified technician. Never connect earth ground to the gas pipe, drain pipe or any other incorrect grounding system.
- Be sure to cut off the power supply when not using the air conditioner for a long time.
- Don't attempt to repair the air conditioner by yourself.
- Don't place a space heater near the air conditioner.
- Don't block the air intake or outlet vents of both the outdoor and indoor units.
- Don't step on the top of the outdoor unit or place something on it.
- Keep combustible spray away from the units.
- Please assure if a stand is used for the outdoor unit, it is firm enough to hold the weight of the outdoor unit.
- Splashing water on the air conditioner can cause an electric shock and malfunction.
- Air conditioner should be operated with stable voltage range of 208-230V 1PH. An unstable supply may create vibration and damage.

OPERATION

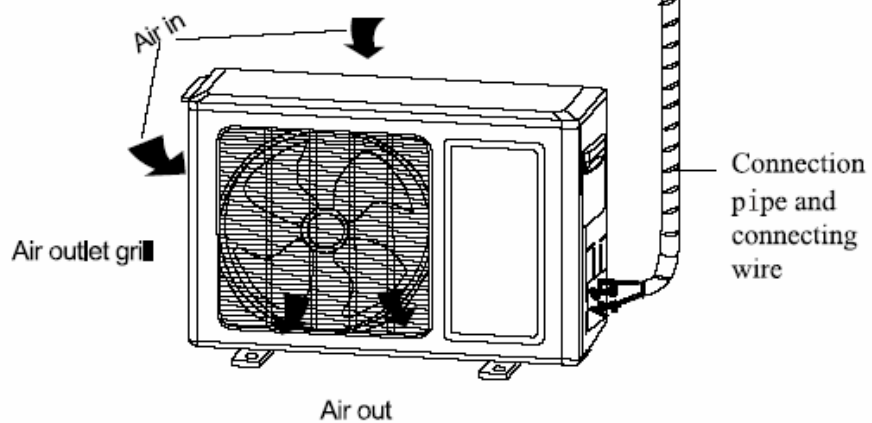
- Set the room temperature appropriately.
- Don't leave windows and doors open for a long time while operating the air conditioner.
- Don't operate unit without air filter.
- Don't operate indoor unit when front cover is removed.
- Don't store remote controller in direct sunlight or excessive heat.
- Don't drop or throw the remote controller.
- Don't immerse the remote controller in water or any other liquids.

UNIT PARTS & FEATURES

Indoor Unit

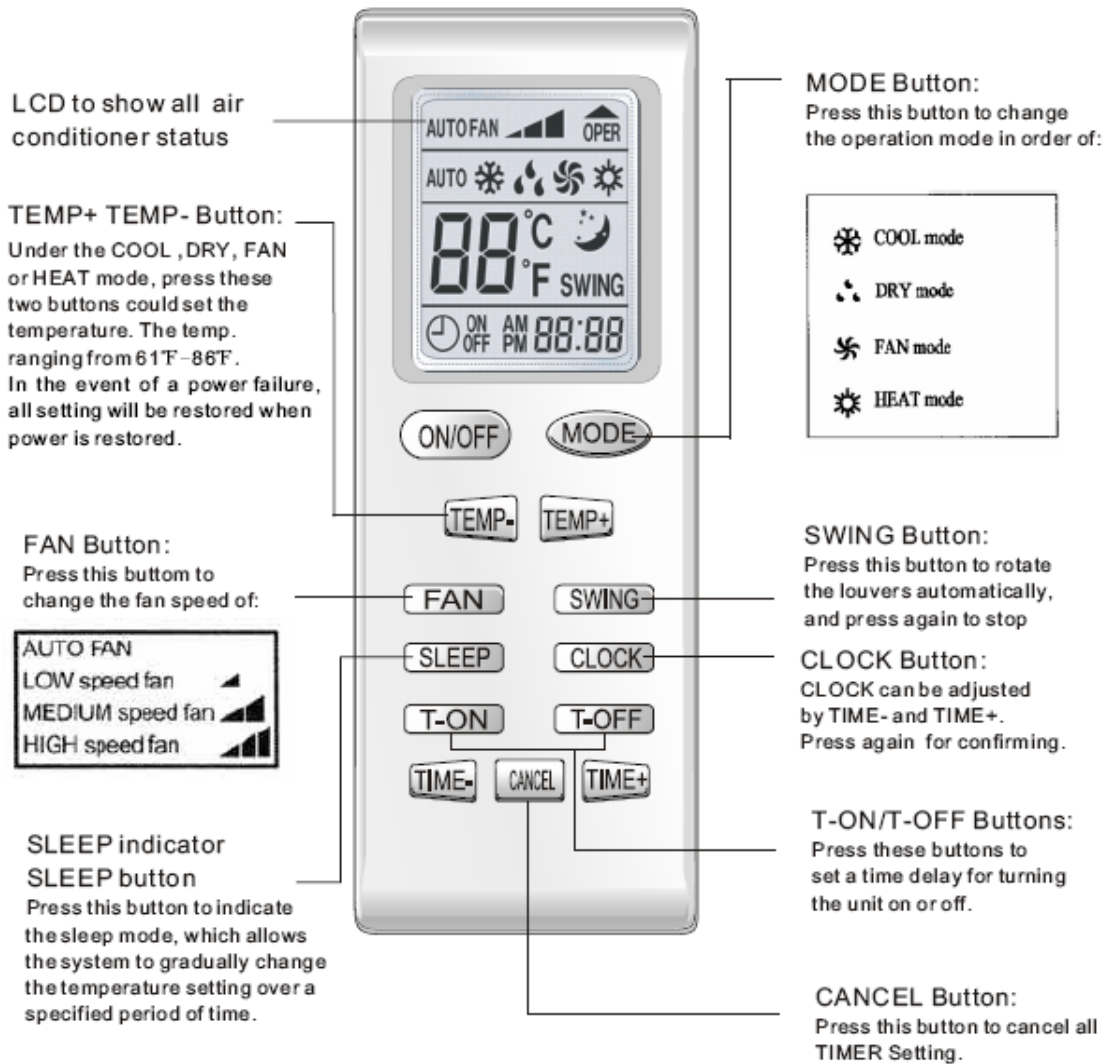


Outdoor Unit



REMOTE CONTROL FUNCTIONS & INDICATORS

Notes: Be sure that there is no obstruction between receiver and remote control.
Some of the indicators on the display below may not be active on your remote and are not explained in these instructions. Appearance of remote may vary.



REMARKS

1. There is a 3 minute delay before the outdoor unit will operate after each off cycle.
2. If a power failure occurs, the unit will recall the settings when power has been restored.

OPERATION GUIDE

Notes: On first operation ensure that power to both indoor and outdoor units is active.

Install Batteries:

Remote control takes two (2) AAA batteries.

- Press and slide the battery compartment cover on the bottom side of remote to open it.
- Insert two (2) AAA batteries, being careful to align the polarities correctly as labeled inside the battery compartment.
- Close the battery compartment cover by sliding it back into place.

Using the Remote Control:

- The remote control must always be pointed at the receiver on the indoor unit to operate properly.
- The operating range of the remote control is approximately 22 ft. Ensure that you are within that range when attempting to operate the system with the remote control.
- Please refer to the diagram on page 3 for general operating instructions. Some of the specific functions will be addressed in more detail below and on the following pages.

Selecting MODE:

- Press the MODE button on the remote control repeatedly until the icon appears for the mode you want to select. (See diagram on page 5.)
- In HEAT and COOL mode the system will run to satisfy the temperature setting.
- In AUTO mode the system will determine the operation mode based upon the room temperature in the vicinity of the indoor unit.
- In FAN mode the heating and cooling will not operate, but the fan will run constantly at the selected speed unless the temperature setting is satisfied.
- In DRY mode cooling will run periodically with low speed fan in order to dehumidify the room. Heating will not operate in this mode.

OPERATION GUIDE (Cont)

SWING operation:

- Press the SWING button on the remote control to initiate automatic rotation of the louvers.
- Louvers can be kept in automatic rotation in order to circulate air throughout the room.
- If desired, press the SWING button again to stop the louvers at a specific position in order to control the direction of air flow.

Selecting FAN speed:

- Press the FAN button on the remote control repeatedly to select auto, low, medium or high speed fan. (See diagram on page 5.)
- In AUTO FAN, the system will select the proper fan speed to satisfy the temperature setting.
- The fan will continuously operate even if the temperature has been satisfied. If a fan speed is selected, the fan will operate at the selected fan speed continuously.

Setting SLEEP mode:

1. Make sure that unit is turned "On".
2. Press SLEEP button once to initiate SLEEP mode.
3. Press TIMER OFF button repeatedly to advance the scheduled length of time before the system is turned off. Time will advance in half hour increments from 0.5 hr to 24 hr.
4. Press + or - buttons to specify final temperature setting for SLEEP mode.
5. Once SLEEP mode is set, the system will gradually adjust the temperature setting throughout the period of operation until the both final temperature setting and set time are reached and the unit automatically turns off.

TIMER operation:

- When system is "On", press TIMER OFF button repeatedly to advance the scheduled length of time before the system is turned off. Time will advance in half hour increments from 0.5 hr to 24 hr.
- When system is "Off", press TIMER ON button repeatedly to advance the scheduled length of time before the system is turned on. Time will advance in half hour increments from 0.5 hr to 24 hr.

CARE & MAINTENANCE

CAUTION

Always disconnect power before cleaning.

Cleaning Cover Panel

Note: Always remove cover before cleaning.

1. Open cover panel and remove the cover panel.
2. Wipe with a damp cloth using warm water or mild cleaner and allow to air dry.

Note: Never use hot water.

3. Replace the cover panel by inserting the tab support on either end of the cover into the supporting slots on the unit, then closing and latching the cover.

Cleaning Air Filters

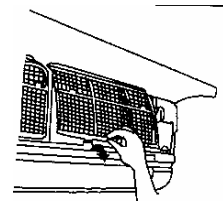
Note: Recommended once every three months under normal conditions.

1. Open cover panel.
2. Using the tab at the bottom of the filter, lift the filter and remove in the direction of the arrows in Diag.1.

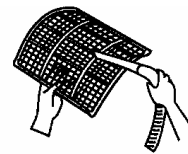
3. Clean filters using a vacuum cleaner (see Diag.2) or by washing them with warm water and allowing them to air dry.

Note: never use hot water.

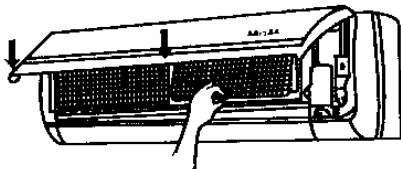
4. Replace filters by inserting as shown in Diag.3. Then close and latch the cover panel.



Diag.1



Diag.2



Diag.3

TROUBLESHOOTING



WARNING

To reduce the risk of electric shock, personal injury, or death, turn the fan control to the off position and remove the unit plug from the wall outlet before doing any inspection or maintenance work.

The following is a list of problems that are sometimes encountered when using a room air conditioner. Possible cause and suggest remedies are given for each problem.

Problem	Possible Solutions
System will not operate.	Has the power been disconnected? Is the system turned off? Has the system turned off in the last three minutes? (There is a 3 minute delay that prevents the system from engaging the heat or cool within three minutes of turning off in order to protect itself.) Is your circuit breaker "on"? Is "TIMER ON" displayed on LCD?
An unusually odor is detected from the indoor unit.	This can be caused by odors trapped in the air filter, such as smoke, food, etc. Follow air filter cleaning instruction.
A slight liquid noise is heard from the indoor unit.	This can be caused by the refrigerant flowing inside the unit
A slight creaking noise is heard from the indoor unit.	This can be caused by expansion and contraction of the plastic materials due to temperature changes.
Remote control will not operate.	Do the batteries need to be replaced? Are you within the operating range of the remote control? Are you pointing the remote control towards the receiver on the indoor unit? Is anything obstructing the path between the remote control and the receiver? Occasionally the remote control may not function properly when the unit is disturbed or when the functions are changed frequently. In this case disconnect the power to the indoor unit and then reconnect to recover remote control operation.