

OPERATING INSTRUCTIONS FOR MINI-SPLIT HEAT PUMP SYSTEM

MODEL

MSC49HP13115A MSC412HP13115A

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USER INSTRUCTIONS AND INFORMATION

In this manual, you will find safety information for installation and operation. For your safety and the safety of others, please read and understand all cautions located throughout this manual.

WARNINGS AND CAUTIONS



WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



CAUTION

This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

Please read the instruction manual prior to use to ensure proper operation of your unit.

INSTALLATION

These units are not designed to be installed in the following locations:

In areas where there is a possibility of combustible gases or fumes.

In damp or moist areas.

Always use proper size breaker or fuse. Failure to do so may cause fire.

OPERATION

Always turn the unit to the "OFF" mode with the remote control. Never use a circuit breaker or fuse as a means to turn the unit off and on except in the case of an emergency.

Do not operate this unit if you are wet or have wet hands. Electric shock can occur.

Do not spray insecticides, paints, or other flammable sprays or liquids into or around the unit.

Do not put foreign objects into the unit.

Do not hang or place items on the unit.

Do not use harsh chemicals such as paint thinner, benzene, or polish to clean the unit.

During cooling operation, shades, blinds, and curtains should be used to shade the room from direct sunlight.

PARTS IDENTIFICATION AND FUNCTIONS **AIR RETURN INDOOR UNIT AIR FILTER** (UNDER COVER) **AIR OUTLET CONDENSATE POWER ON DRAIN** LIGHT TIMER ON LIGHT Line-set and cables -WHEN: RUN light is on - Unit is operating in the set mode. i.e. Cool, Dehumidify, Fan. TIMER light is on - Unit is in AUTOSTART mode and will start at the set time. **RUN AND TIMER light is on - Unit is** operating in AUTOSTOP mode and will stop **OUTDOOR UNIT** at the set time. **CONDENSER AIR INLETS** (side and back) **EMERGENCY OPERATION SWITCH** Is located under front cover of indoor unit. PRESS ON Unit will operate at last known function and temperature. PRESS OFF Unit will stop until restarted by the remote or by this switch. CONDENSER

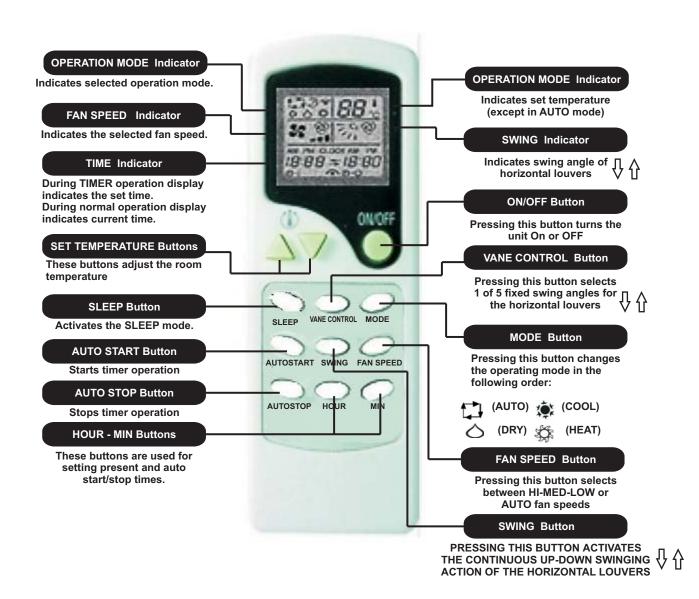
AIR DISCHARGE

TO OPEN FRONT COVER

Press inward on the sides of the cover near the bottom to release, then pull bottom of cover outwards

To close the cover, press the corners inward to latch. DO NOT OVEREXTEND THE FRONT COVER.

REMOTE CONTROL OPERATION



USE OF THE REMOTE CONTROL (AUTO SELECT MODE)



USE OF THE REMOTE CONTROL (DEHUMIDIFIER MODE)





ON/OFF

VANE CONTROL MODE

AUTOSTART SWING FAN SPEED

AUTOSTOP HOUR

SLEEP

In the AUTOSELECT mode, the system functions as described below:

When the room temperature is below 70° F, the system will function in the HEAT mode.

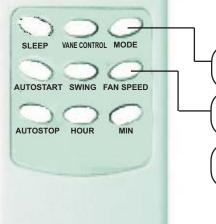
When the room temperature is between 70° F and 79° F, the system will function in the DEHUMIDIFY mode.

When the room temperature is above 79°F, the system will function in the COOLING mode.

- 1) Press the ON/OFF Button to turn the unit ON
- 2) Press the MODE Button and select the AUTO mode.
- Press the ON/OFF Button or select another mode to stop the AUTO mode.

During the de-humidification process, the outdoor compressor and the inside evaporator will turn on and off based on the "sensed" indoor and outdoor temperatures and is not a function of the set temperature.

Temperature can not be adjusted during de-humidification.



ON/OFF

2) Press the MODE Button and select the DEHUMIDIFY mode.

turn the unit ON

- 3) Press the FAN SPEED Button to select the desired fan speed
- Press the ON/OFF Button or select another mode to stop the DEHUMIDIFY mode.



The HEAT mode activates the outdoor compressor as necessary to satisfy the selected room temperature.



AUTOSTOP

HOUR

1) Press the ON/OFF Button to turn the unit ON

- 2) Press the MODE Button and select the HEAT Mode
- 3) Press the + or Buttons to adjust the room temperature Each press of the button will change the temperature 1°
- 4) Press the FAN SPEED Button to select the desired fan speed
- 5) Press the ON/OFF Button or select another mode to stop the HEAT mode.

NOTE: When the outside temperature is very low and the humidity is very high, frosting will occur on the heat exchanger of the outside unit. When this happens, the auto-defrost will turn on to to defrost the heat exchanger. Heating will be suspended for 5 to 10 minutes while the defrost cycle completes. At the end of the defrost cycle, normal heating will resume.

During the defrost cycle, steam may be seen coming from the outside heat exchanger. This is normal and is of no concern.

The COOL mode activates the outdoor compressor as necessary to satisfy the selected room temperature.

> 1) Press the ON/OFF Button to turn the unit ON

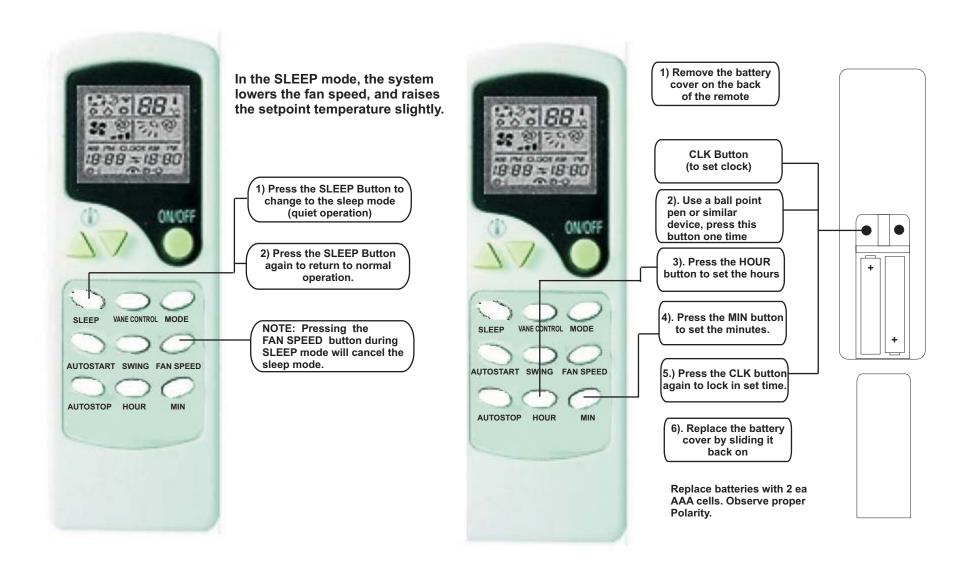
2) Press the MODE Button and select the COOL Mode

3) Press the + or - Buttons to adjust the room temperature Each press of the button will change the temperature 1°

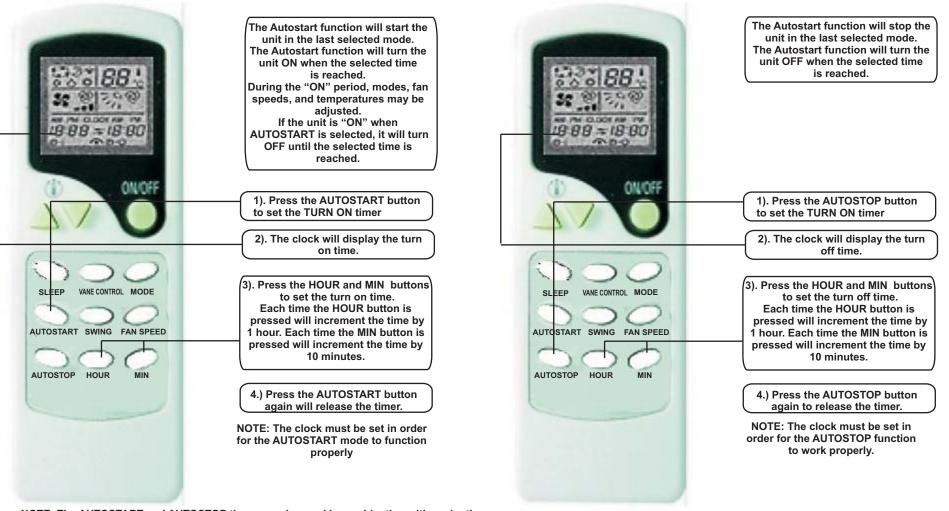
4) Press the FAN SPEED Button to select the desired fan speed

5) Press the ON/OFF Button or select another mode to stop the COOL mode.





USE OF THE REMOTE CONTROL (AUTOSTOP MODE)



NOTE: The AUTOSTART and AUTOSTOP timers can be used in combination with each other.

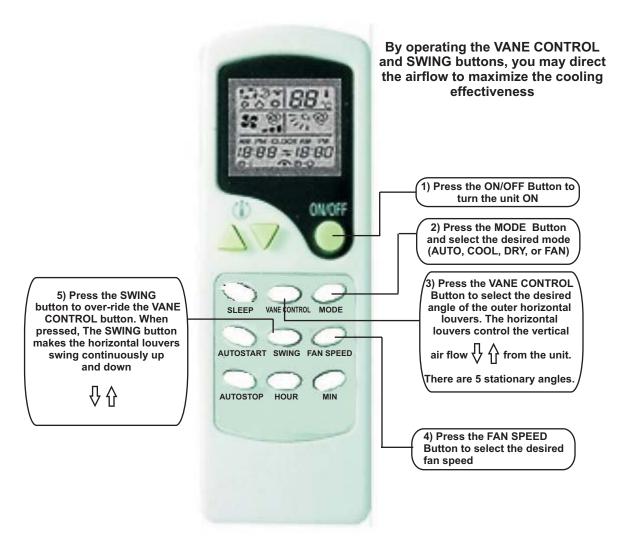
For example, to have the unit come on and run for 3 hours beginning at 10:00 am set the AUTOSTART time to 10:00 am, and set the AUTOSTOP time to 1:00 pm. At 10:00 am, the unit will turn on in the selected modes, and turn off at 1:00 pm.

The timer which is set to the earliest time will activate first. For example, if AUTOSTOP is set for 10:00 am and AUTOSTART is set for 11:00 am, the unit will turn off at 10:00 am and turn back on at 11:00 am.

The time settings will remain in memory of the remote until changed, but AUTOSTART and/or AUTOSTOP are not recurring events, and must be activated again by pressing AUTOSTART or AUTOSTOP again if desired.

Pressing the AUTOSTART button or the AUTOSTOP button during the set time period will cancel that operation.





NOTE: in the cooling operation with the VANE CONTROL blowing down (4th & 5th positions), the outer horizontal louvers will return to the level (position 1) after 1 hour in order to prevent condensate water from dripping.

MAINTENANCE OF YOUR UNIT

Beginning of Season

PRIOR TO OPERATION

- Carefully inspect both indoor and outdoor unit for blockages of the inlet and outlet exhaust vents.
- Inspect ground connection. Ensure that ground wire is properly connected.
- Inspect Air Filters and clean if necessary.
- Install new batteries in the remote control unit (2 ea "AAA").

During the Season

CLEANING THE AIR FILTERS

• Filters should be cleaned every 2 weeks or more often if the unit is used continuously or the unit is operated in a high dust area.

TO REMOVE THE AIR FILTERS:

- To open the indoor unit, pressing on the outside edges of the lower corners of the cover and pull outwards. The front cover will swing upwards. DO NOT OPEN FRONT COVER FURTHER THAN STOPS. DO NOT FORCE THE FRONT COVER OPEN.
- To remove the filters, push the filter upwards from the bottom to release.
- Clean the filters by washing in lukewarm water (about 86°F). Allow the filters to dry before re-installing. DO NOT USE HOT WATER. DO NOT USE HARSH CHEMICALS.
- Re-install clean filters by sliding the filter in at the top then locking behind tabs on the bottom.
- DO NOT OPERATE THE UNIT WITHOUT THE FILTERS IN PLACE. DAMAGE TO THE UNIT COULD OCCUR.

NOTICE: Performance of this unit is greatly reduced when operated with dirty, damaged, or clogged filters.

AFTER THE OPERATING SEASON

• Set the temperature to 86°F and operate the unit in the FAN MODE for about 4 - 6 hours to thoroughly remove any moisture from the interior of the unit.

- Turn the unit off. In the OFF mode, the unit still comsumes about 5 watts of power. If you wish to completely turn the unit off, turn off the breaker to the unit.
- Clean and re-install the air filters.
- Clean both the indoor and outdoor units.
- Remove the batteries from the remote control and store the remote control in a safe place.

TROUBLESHOOTING

If you have a problem with your unit, please check the following items BEFORE calling for service:

	If the unit will not operate	
Is there power at the unit	Is the remote control operating	Is the timer on
Check for tripped breaker or blown fuse Turn breaker off for 30 seconds then turn	Point remote at unit and press the power button. You should hear a "BEEP" if the unit is receiving a signal from the remote. Replace batteries in remote.	Check the TIMER status. If the TIMER is on, press "AUTOSTART" button to cancel timer operation.

	If the unit will operate but not cool	
Is there remote set properly	Is there air flow?	Is unit sized properly?
Set temperature lower than current room temperature. Verify that unit is in "COOL" mode. Unit takes 3 minutes to restart after shutdown.	Check for clogged filter. Check for blocked intake or outlets. Check fan mode	Check with Installation contractor

WARRANTY

THERMAL ZONE warrants the accompanying split air conditioner system to be free of defects in material and workmanship for the applications specified in the operation manual and installation manual for a period of (1) year on parts and five (5) years on the compressor, valid from date of original retail purchase in the United States or Canada.

LABOR is not covered under warranty.

If the unit exhibits a defect in normal use and it is determined to be within the warranty period, THERMAL ZONE will, at its option, either repair or replace the unit free of charge within a reasonable time after the unit is returned.

This warranty DOES NOT cover:

- Damage, accidental or otherwise, to the unit while in possession of the consumer that is not a result of a defect in material or workmanship.
- Damaged caused by consumer misuse, tampering, or failure to follow all care and maintenance instructions in the manual.
- Damage to the finish of the case or other parts caused by water.
- Damage caused by repairs or alterations to the unit by anyone other than a qualified technician.
- Air Filters
- Freight and insurance cost for the warranty service.

Warranty Activation Card must be completed and sent in to activate the warranty for the accompanying unit.

TECHNICAL ASSISTANCE

IF YOU STILL NEED SERVICE:

Please contact the installation contractor, or call International Refrigeration Products at 9704) 504-8590 between the hours of 7:30 a.m. and 4:00 p.m. E.S.T., Monday thru Friday.

For faster service, please have the model and serial numbers of both the inside unit and the outside unit available when you call.