



Introduction

Superior Design for Superior Performance

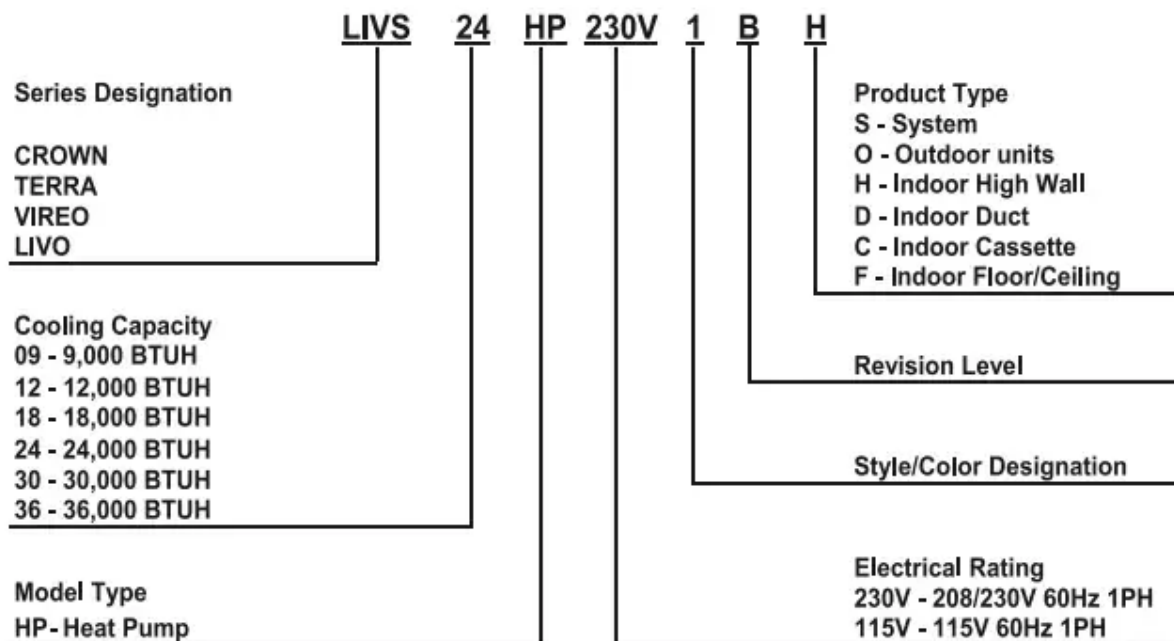
Gree's Livo Inverter-driven, Mini Split Heat Pumps are beautifully designed to deliver effective cooling or heating, while fitting unobtrusively into any decor. The indoor unit's aesthetically pleasing, minimalist design blends nicely in any home or office.

Your Livo unit offers quiet, energy-efficient comfort, powered by Gree's famous G10 Inverter technology. To speed the process of bringing conditioned air exactly where you want it, the unit features both horizontal and vertical air flow control. Customizable mode controls allow you to adjust fan speeds, select sleep-time settings and more, all through the easy-to-use wireless remote controller, or an optional Wired Tether Controller.

There's even a Turbo, Power Failure Memory and other advanced features to make the Livo system even more versatile, for year-round comfort and energy savings.

NOMENCLATURE

Example: LIVS24HP230V1BH



Safety Precautions

Please read the following before operation.

Recognize safety information. This is the safety-alert symbol. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol.

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards which could result in personal injury or death.

CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

NOTE: Your actual air conditioning & heating system and related devices may differ from the images shown in this manual.

WARNING: This appliance is not intended for use by children without responsible adult supervision. Proper care should be taken to ensure safety.

WARNING: Heat pumps, air conditioners & heating equipment should be installed, started up, and serviced only by qualified installers and service technicians. Air conditioning, heat pumps and refrigeration systems are hazardous due to high voltage electrical components, high refrigerant pressures, and moving parts.

WARNING

- Disconnect electrical power to the indoor and outdoor units before performing any maintenance or cleaning.
- Do not attempt to repair the Gree system yourself. Incorrect repairs may cause electric shock or fire. Contact a qualified service technician for all service requirements.
- Keep combustible materials away from the unit.

CAUTION

- Do not put hands or any objects into the air inlets or outlets. This may cause personal injury or damage the unit.
- When cleaning, be careful not to splash water on the unit. Doing this may cause electric shock or damage to unit.
- Do not use or place any flammable, combustible or noxious substance next to the unit.
- In the event of a failure (burning smell, etc.), immediately disconnect all electrical power to indoor and outdoor units. Never try repairing the system yourself; contact a qualified service technician for all repairs.

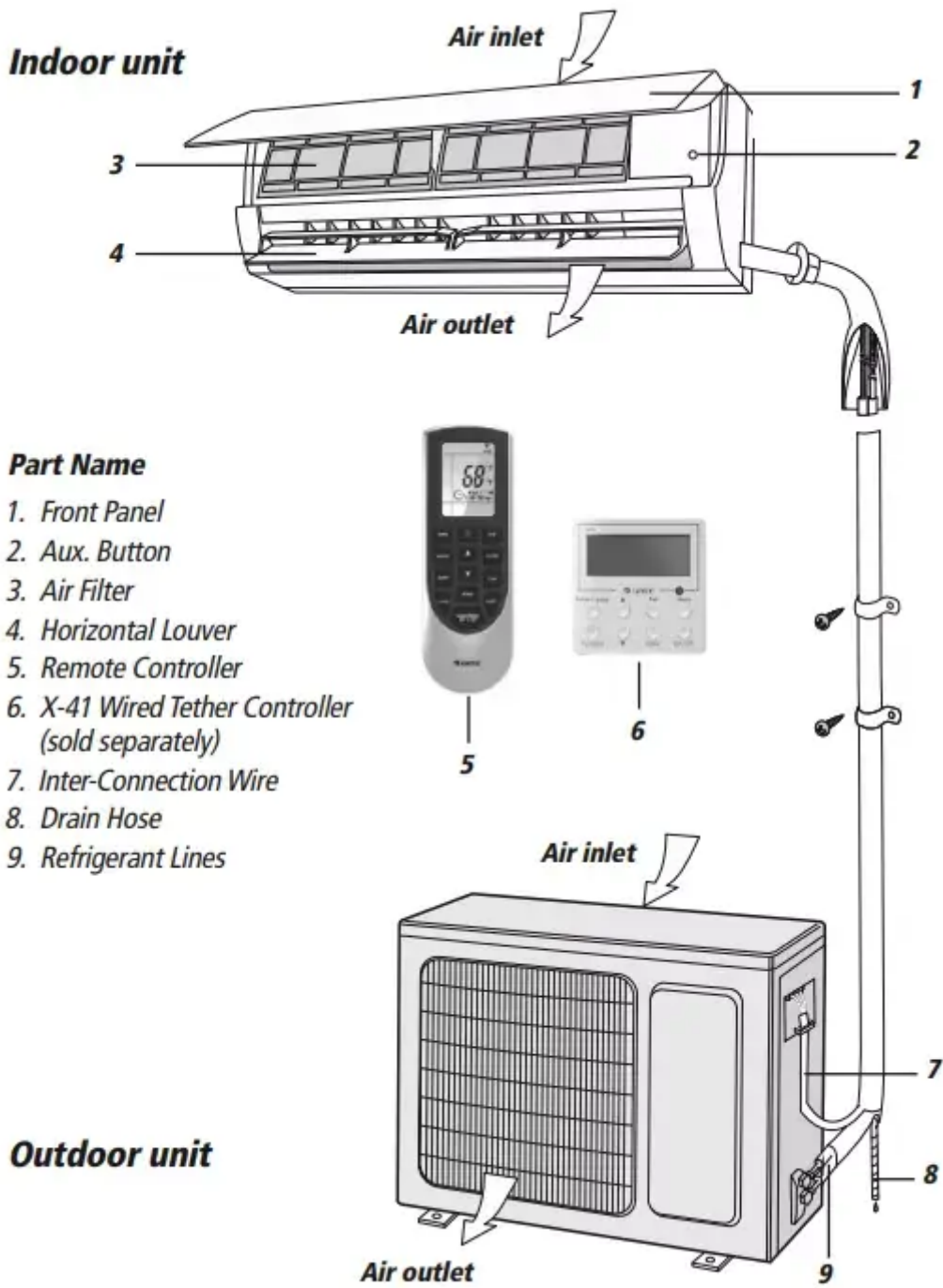


Front Panel Display

The front panel on the Livo indoor unit contains system status lights and easy-to-read LED display.

NOTE: The indoor unit display panel can be turned ON or OFF via the LIGHT button on the remote controller. See "LIGHT" button description for more detail.

Part Names



1. Front Panel
2. Aux. Button
3. Air Filter
4. Horizontal Louver
5. Remote Controller
6. X-41 Wired Tether Controller (sold separately)
7. Inter-Connection Wire



8. Drain Hose
9. Refrigerant Lines]

System Functions

WHISPER QUIET

Not only are the Gree systems energy efficient but they are quiet too. Livo High-Wall units operate with sound pressure levels starting as low as 28 dB(A).

MULTI FAN SPEEDS

Whether operating in either Cooling or Heating mode, the indoor fan can be set to your choice of four different speeds (Low, Medium, High or Turbo) to achieve maximum comfort.

INTELLIGENT PRE-HEATING

The Livo system guards against the annoying cool air blown into the room in heating mode. The system constantly monitors the discharge air temperature. It will delay the indoor fan until the indoor coil has warmed up to prevent blowing uncomfortable cool air into the room.

I FEEL MODE

The unit will sense room temperature at the remote controller instead of at the indoor unit during cooling mode. It then adjusts airflow and temperature accordingly for the ultimate in personal comfort control and energy savings.

ADJUSTABLE AIRFLOW

The Livo system has a bi-directional airflow control for maximum comfort. The indoor unit has adjustable vertical swing louvers and can be set in multiple discharge directions from the wireless remote controller.

TURBO MODE

Use Turbo Mode for situations where you wish to achieve the desired room temperature in the shortest possible time. This mode runs the unit at ultra high speeds for quickest results.

FREEZE GUARD

Room Freeze Guard protection will automatically keep the room temperature from getting too cold, where water pipes might freeze.

TIMER MODE

The unit can be programmed to turn ON or OFF after a specific amount of time. The time period is adjustable between one half and 24 hours.

MODE BUTTON

The unit can be set to five different operating modes: HEAT, COOL, DRY, FAN ONLY and AUTO.

NOTE: AUTO MODE has fixed setpoints of 68°F heating and 78°F cooling, which are not adjustable. The system will automatically select heating or cooling to maintain room temperature within this band.

SLEEP MODE

The Livo offers a Sleep Mode function for your comfort. The unit will automatically adjust room temperature during your sleep time. This slight change in temperature will not affect your comfort level due to the natural effects that sleeping has on the body, but it will save on energy consumption and will lower electric bills.

ENERGY SAVINGS MODE

This feature will automatically select the optimal compressor and fan speeds to allow for energy savings while operating in Cooling or Heating modes. The compressor and fan will automatically slow down as the room temperature reaches the set point.

SELF-DIAGNOSIS

Livo has a built-in computer which uses real-time diagnostics which help prolong the unit's life. The automatic diagnosis feature continuously scans for errors or malfunctions and fault codes are shown on the unit display to facilitate troubleshooting and repair.

POWER FAILURE MODE

Power interruptions are no problem for the Livo system. User selections and system parameters are stored in non-volatile memory. These parameters are retained during a power failure. When power is returned, the Livo system will automatically return to the last operating mode.

INTELLIGENT DEFROST

The Livo Intelligent Defrost function increases room comfort and saves energy by eliminating unnecessary defrost cycles. In heating mode, the unit will monitor the outdoor coil for frost build up. Once frost buildup has been detected, the system will switch into a defrost mode to remove the frost.

POLYMERIC AIR FILTER

The polymeric mesh filters save energy by preventing the indoor coils from being plugged with dirt and lint. This economical and sturdy filter may be washed, vacuumed and reused.

FAHRENHEIT °F/ CELSIUS °C

The remote controller and indoor wall unit front panel can be set to display in either °F or °C.

PRIVACY LOCK MODE

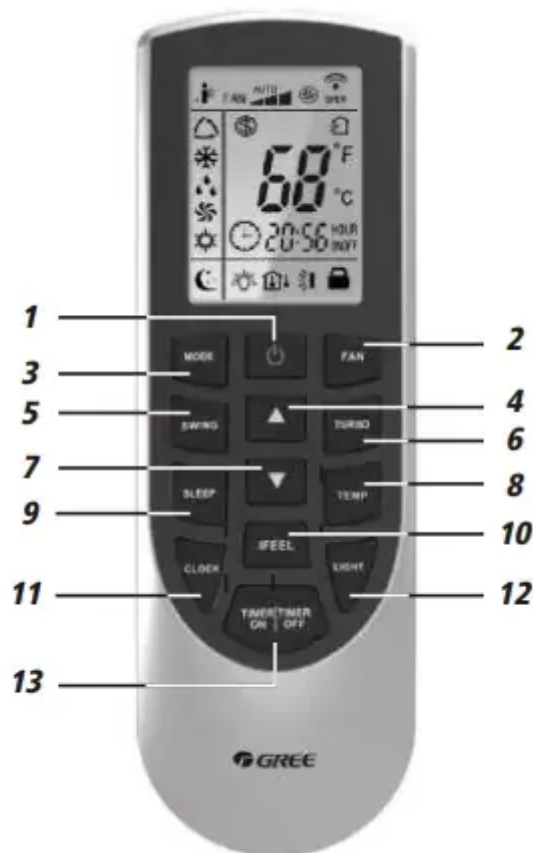
The wireless remote controller has a Lock feature. The Lock averts unauthorized access or tampering with system settings.

AGENCY LISTINGS

All systems are listed with AHRI (Air conditioning, Heating, and Refrigeration Institute) and are ETL certified per UL Standards.

OPERATION OF WIRELESS REMOTE CONTROLLER

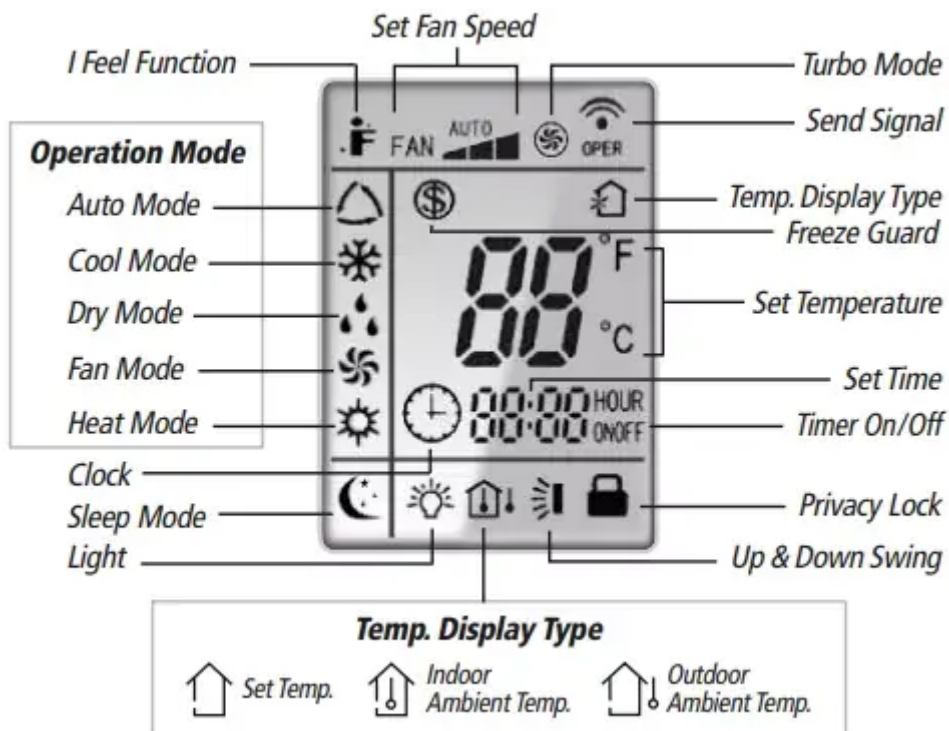
Remote Controller



1. ON/OFF Button

2. Fan Button
3. Mode Button
4. Up Button
5. Swing Button
6. Turbo Button
7. Down Button
8. Temp Button
9. Sleep Button
10. I Feel Button
11. Clock Button
12. Light Button
13. Timer On/Off Button

INTRODUCTION FOR ICONS ON DISPLAY SCREEN




REMOTE CONTROLLER OPERATIONS

The wireless remote controller is sleek, versatile and allows you to change room temperatures and functions on your Vireo system from the palm of your hand. The large LCD display and buttons make it easy-to-understand and easy-to-use.

The remote controller is set from factory to display temperatures in °F. If °C is desired, turn the remote controller **OFF** with the **ON/OFF** button and then press "**MODE**" and "**▼**" buttons on the remote simultaneously for 5 seconds.

ON/OFF BUTTON

When the system is in OFF mode, the remote controller will display the time and last room setpoint. When you press the **ON/OFF** button, this indicator  will be displayed and the unit will start in the last operating mode and room setpoint.


NOTE: If the ON/OFF button is pressed too soon after a stop, the compressor will not start for 1 to 5 min. due to the inherent protection against frequent compressor cycling.




ON Mode Display

DISPLAYING SETPOINT OR INDOOR TEMPERATURE ON FRONT PANEL:

The setpoint temperature or room temperature can be displayed on the front panel. Only setpoint temperature is displayed on the remote controller.

When the "TEMP" button is pushed once, the temperature indicator  is displayed. This indicates that the setpoint temperature is displayed on the front panel.


When the "TEMP" button is pushed a second time, the display will show an  icon with a thermometer inside a house. This indicates that the room temperature is displayed on the front panel.

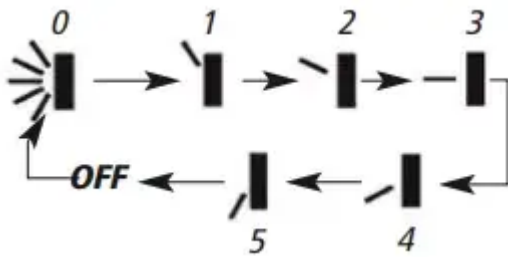
The room temperature will be displayed for only 5 seconds before reverting back to displaying room setpoint.




Room Temperature Display

VERTICAL SWING LOUVERS

- Press the Vertical Swing Louver button to select five different vertical (up & down) air discharge directions including Continuous Sweep. The Swing Louver  icon will be displayed. Press this button to set swing angle, which changes in direction as below:



 Indicates louver swings back and forth in the five directions, as shown.



Swing Louver Display


PRIVACY LOCK

The Privacy Lock prevents unauthorized access to the unit controls and prevents tampering with system settings. The remote controller can be locked by pushing the "▲" and "▼" buttons simultaneously for 5 seconds. The Privacy Lock icon will be displayed on the remote controller. Repeat the process to unlock the remote controller.



Privacy Lock Display

I FEEL MODE

Press this button to use the I FEEL function, and the  icon will be displayed. The unit will sense room temperature at the remote controller instead of at the indoor unit during cooling mode. It then adjusts airflow and temperature accordingly for the ultimate in personal comfort control and energy savings. Press the button again to exit this function. For best performance, keep remote controller away from heat or cold temperature sources while using this function.

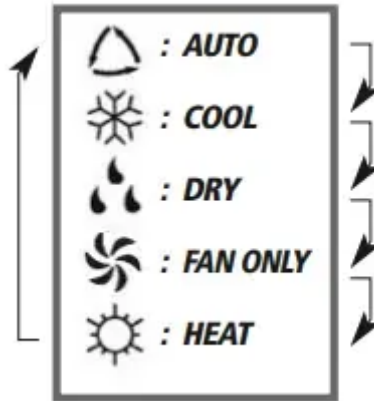


I Feel Mode

MODE BUTTON

Use the "MODE" button to select one of the available modes.

The selected mode will be displayed on the remote controller and the appropriate light will illuminate on the front display panel.



Icon Displayed

AUTO – Unit will automatically select heating or cooling to maintain room temperature between 68°F and 77°F. The remote controller will display the Auto Mode icon with no setpoint.

COOL – To cool to selected setpoint and remove moisture. Press ▲ or ▼ to adjust set temperature. System varies compressor speed to maintain desired temperature.

HEAT – To heat to selected room setpoint. Press ▲ or ▼ or to adjust set temperature. System varies compressor speed to maintain desired room temperature.

FAN ONLY – To circulate air without heating or cooling. Use Fan Speed button to select speed from low to high.

DRY – Select **DRY MODE** to increase moisture removal during warm humid conditions. In this mode, fan speed cannot be adjusted.

1. If the Room Temperature is more than 4°F above the set temperature, the system will be operating in cooling mode with low fan speed.
2. If the Room Temperature is between 4°F higher than, and 4°F less than, the set temperature, the system will cycle 6 minutes **ON** and 4 minutes **OFF** in cooling mode. The indoor fan will be at low speed.
3. If the Room Temperature is more than 4°F below the set temperature, the system will be **OFF** and the indoor fan will be at low speed.

FREEZE GUARD

In Heat mode, press "TEMP" and "CLOCK" buttons simultaneously to start up 46°F heating function. When this function is started up, "(S)" and "46°F" will be displayed on the remote

controller, and the unit will maintain room temperature above 46°F. Press "TEMP" and "CLOCK" buttons simultaneously again to cancel Freeze Guard protection.



Freeze Guard Display

TIMER SETTING

Timer-ON/ Timer-OFF BUTTON

To set when you want the unit to turn On at the end of a selected time period, use the button labeled "Timer- ON/Timer- OFF" on the remote controller. Press this button to make the clock icon disappear, replaced with the word "ON" (blinking). Press ▲ or ▼ buttons to adjust timer setting 1 minute at a time. Press and hold ▲ or ▼ button to set timer more quickly. Press "Timer- ON/Timer- OFF" button again to confirm setting, and the word "ON" will stop blinking. To cancel, press "Timer- ON/Timer- OFF" button again.




Timer Setting ON/OFF

To set when you want the unit to turn Off at the end of a selected time period, use the same button. Press this button to make the clock icon disappear, replaced with the word "OFF" (blinking). Adjust settings the same as with "Timer- ON/Timer- OFF" settings.

NOTE: Under Timer On and Off status, you can set "Timer- ON/Timer- OFF" simultaneously. Before setting timer, be sure to set clock to correct time.




TURBO MODE

The desired room setpoint can be achieved faster in **TURBO** mode. After selecting the "HEAT" or "COOL" mode button, push the "TURBO" button. The **TURBO**  icon will be displayed on the remote controller and the unit will run at an ultra-high speed. To deactivate the feature, push the "TURBO" button again. The unit will return to normal operation.



Turbo Mode Display

FAN BUTTON

Press the FAN button to adjust the indoor fan speed: Low () , Medium () , High () , Turbo and Auto.

- Turbo function is not available in Dry and Auto mode.
- The fan operates at low speed in Dry and Auto modes, and the speed cannot be adjusted.
- When Auto is selected, the unit will select the proper fan speed automatically, according to the ambient temperature.

NOTE: Turbo function is not available in Dry and Auto Modes. The Livon unit will select proper fan speed automatically according to ambient temperature.



Fan Display

CLOCK SETTING

Press this button to set clock time. "🕒" icon on remote controller will blink. Within 5 seconds, press ▲ or ▼ button to set clock time. With each pressing of ▲ or ▼ buttons, clock time will increase or decrease 1 minute. To quickly adjust time setting, press and hold ▲ or ▼ button for 2 seconds. Release button when you have reached the desired time setting. Press "CLOCK" button to confirm the time, and "🕒" icon will stop blinking.

NOTE: Clock time adopts 24-hour mode. A 12-hour time format is not available.



Clock Setting Display

LIGHT BUTTON

Press this button to turn off display light on indoor unit. Press again to turn it back on.



Light Display


ENERGY-SAVING

In Cool mode, press "TEMP" and "CLOCK" buttons simultaneously to start the energy-saving function. "SE" will be shown on remote controller, and the unit will adjust the set temperature automatically to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to cancel energy-saving mode.



Energy Saving Display

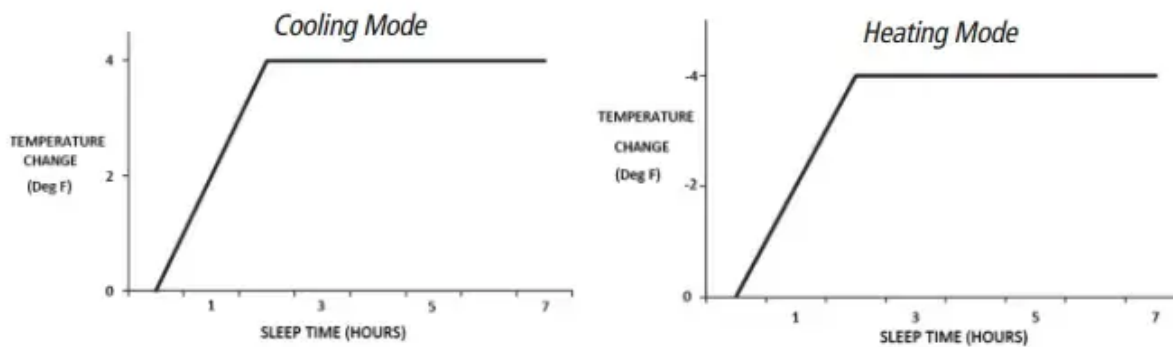
SLEEP MODE

The Livo system will automatically adjust room temperature during your sleep time. This slight change in temperature will not affect your comfort level due to the natural effects that sleeping has on the body, but it will save on energy consumption and will lower your electric bill. Press the SLEEP button to select Sleep Mode or Cancel. The SLEEP  icon will appear.

In Sleep Mode the unit will slowly relax the room set temperature by up to 4°F until Sleep Mode is cancelled.



Sleep Mode Display



CHANGING BATTERIES AND ADDITIONAL NOTES

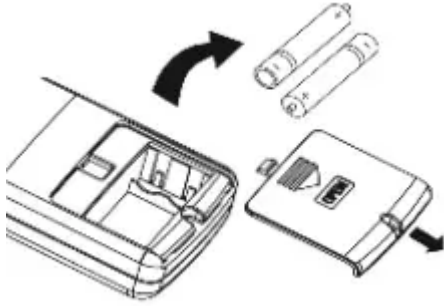
To change batteries, slide cover off battery compartment on back of remote controller. Remove and safely discard old batteries. Insert two new AAA 1.5V dry batteries, using correct polarity. Reattach back cover.

NOTE:

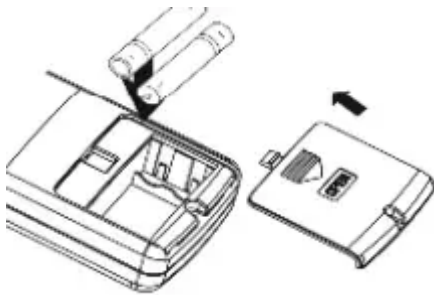
- If the remote controller will not be used for a long time, remove batteries to prevent leakage damage.
- Be sure to aim the remote controller at the receiver of the main unit when operating. When remote emits a signal, icon will flicker; a tone will be heard when unit receives that signal.

CHANGING BATTERIES

Remove old batteries

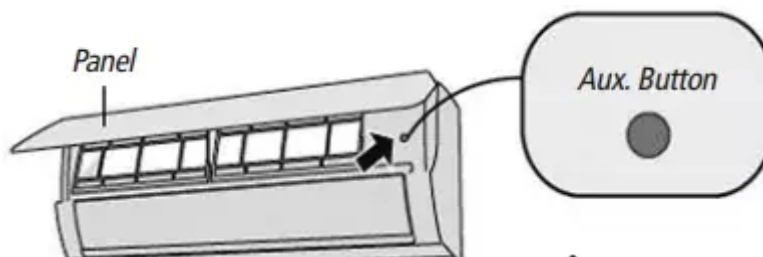


Install new batteries



DAMAGED OR LOST REMOTE CONTROLLER

If remote controller is lost or damaged, the Livosystem can be turned off directly from the indoor unit. Lift the front panel of the indoor wall unit, then press the AUX button to turn on or turn off. When the unit is on, it will operate in AUTO Mode.



WARNING: Use insulated object to press the auto button.

Care and Cleaning

WARNING: Take notice of the following items before cleaning your Livo indoor wall unit.

- To avoid electric shock or injury, do not attempt to clean the unit unless it has been turned off and the indoor and outdoor units have been disconnected from the main power supply.
- Do not wash the unit with water; this may cause an electric shock.
- During cleaning, be sure to use a stable and safe standing platform.

FRONT PANEL CLEANING

Wash the front panel using warm water and mild detergent with a soft cloth or soft brush.

NOTE: Do not use bleach, abrasives or water above 110°F (45°C) as it may cause discoloration or damage to the surface of the unit.

AIR FILTER CLEANING

Changing your air filter on a regular basis prevents many problems. Dirty air filters will affect the performance and the longevity of your unit. It is recommended that air filters be cleaned every three (3) months.

To access and clean the filter:

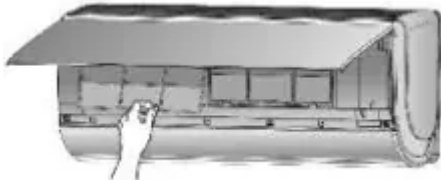
1. Open Front Panel

Firmly grasp both sides of the front panel and pull upward to about 60 degree angle.
(NOTE: do not force panel open).



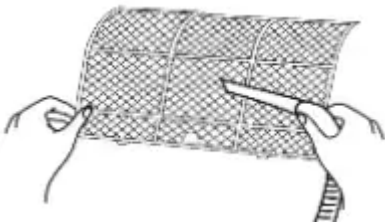
2. Remove Filter

Remove the filter as indicated in the figure at right.



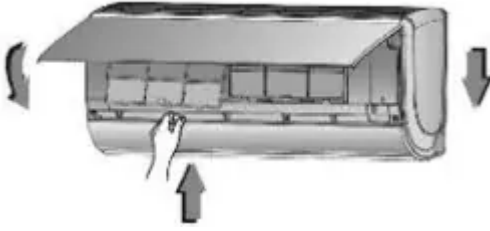
3. Clean Filter

Use vacuum to clean the filter. When the filter is very dirty, use warm water (below 110°F) to clean it, and then dry filter before replacing.



4. Reinstall Filter

Reinstall the filter and then close the panel cover tightly.



Troubleshooting



PROBLEM	CAUSE/SOLUTION
System does not restart.	<p>Cause: The system has a built-in three-minute delay to prevent short and/or rapid cycling of the compressor.</p> <p>Solution: Wait three minutes for the protection delay to expire.</p>
Indoor unit emits unpleasant odor when started	<p>Cause: Typically unpleasant odors are the result of mold or mildew forming on the coil surfaces or the air filter.</p> <p>Solution: Wash indoor air filter in warm water with mild cleaner. If odors persist, contact a qualified service professional to clean the coil surfaces.</p>
You hear a "water flowing" sound.	<p>Cause: It is normal for the system to make "water flowing" or "gurgling" sounds from refrigerant pressures equalizing when the compressor starts and stops</p> <p>Solution: The noises should discontinue as the refrigerant system equalizes after two or three minutes.</p>
A thin fog or vapor coming out of the indoor unit when system is running.	<p>Cause: It is normal for the system to emit a slight fog or water vapor when cooling extremely humid warm air.</p> <p>Solution: The fog or water vapor will disappear as the system cools and dehumidifies the room space.</p>
You hear a slight cracking sound when the system stops or starts.	<p>Cause: It is normal for the system to make "slight cracking" sounds from parts expanding and contracting during system starts and stops.</p> <p>Solution: The noises will discontinue as temperature equalizes after 2 or 3 minutes.</p>
The system will not run.	<p>Cause: There are a number of situations that will prevent the system from running.</p> <p>Solution: Check for the following:</p> <ul style="list-style-type: none"> • Circuit breaker is "tripped" or "turned off" • Power button of remote is not turned on. • Batteries in the remote controller are low. • Remote controller is in sleep mode or timer mode. • Otherwise, contact a qualified service professional for assistance.
The unit is not heating or cooling adequately.	<p>Cause: There are a number of reasons for inadequate cooling or heating.</p> <p>Solution: Check the following:</p> <ul style="list-style-type: none"> • Remove obstructions blocking airflow into the room.



	<ul style="list-style-type: none"> • Clean dirty or blocked air filter that is restricting airflow into the system. • Seal around door or windows to prevent air infiltration into the room. • Relocate or remove heat sources from the room.
Water leakage from the outdoor unit.	<p>Cause: It is normal for the outdoor unit to generate condensate water in the reverse cycle heating and defrost mode.</p> <p>Solution: This is normal. No action is required.</p>
Water leaking from the indoor unit into the room.	<p>Cause: While it is normal for the system to generate condensate water in cooling mode, it is designed to drain this water via a condensate drain system to a safe location.</p> <p>Solution: If water is leaking into the room, it may indicate one of the following.</p> <ul style="list-style-type: none"> • The indoor unit is not level right to left. Level indoor unit. • The condensate drain pipe is restricted or plugged. All restrictions must be removed to allow continuous drainage by gravity. • If problem persists, contact a qualified service professional for assistance.
Wireless remote controller does not work.	<p>Cause: There are a number of possible reasons</p> <p>Solution: Check the following:</p> <ul style="list-style-type: none"> • The batteries might be low. Change the batteries. • The remote controller must be within 25 ft. (7.5 m) with no obstructions of the indoor unit. If remote controller needs to be replaced, contact a qualified service professional for assistance. In the meantime, use the Aux Button to operate the system.
The unit will not deliver air.	<p>Cause: There are a number of system functions that will prevent air flow</p> <p>Solution: Check for the following:</p> <ul style="list-style-type: none"> • In heating mode, the indoor fan may not start for three minutes if the room temperature is very low. This is to prevent blowing cold air. • In heat mode, if the outdoor temperature is low and humidity is high, the system may need to defrost for up to 10 minutes before beginning a heating cycle.

	<ul style="list-style-type: none"> • In dry mode, the indoor fan may stop for up to three minutes during the compressor off delay. • Otherwise, you should contact a qualified service professional for assistance.
Moisture or condensation on the discharge air louvers or outlet vents.	<p>Cause: It is normal for the system to develop condensation or moisture on the discharge air louvers when cooling warm humid air for a long period of time.</p> <p>Solution: The condensation or moisture will disappear as the system cools and dehumidifies the room space.</p>

CAUTION - Stop operation and call for service in the following circumstances:

- You hear a harsh or unusual sound during operation.
- Unusually foul odor is emitted during operation.
- Water is leaking in the room.
- You notice a burning smell or see smoke.
- Circuit breaker trips frequently, or unit stops abnormally often.

Energy Saving Tips

1. **Reduce room setpoint at night:** During the nighttime hours you don't require the same level of conscious cooling or heating. Try using Sleep Mode to gradually relax room temperature and allow the unit to run less and save energy.
2. **Curtains and shades:** In the summer, it is recommended to block the effects of the sun. Close window curtains and shades on the south and west side of your home to help block solar heat. In winter, the sun is your friend. Open curtains and shades to allow solar heat into your room.
3. **Close doors:** If you don't need to heat and cool your whole home, confine the heating and cooling to one room by closing doors.
4. **Service the unit:** Some basic maintenance might be all you need. The outdoor unit will greatly benefit from a good hosing off, especially in treed areas where seeds and other debris can stick to coil fins and make the unit work up to 15% harder!
5. **Rearrange the room:** Furniture that obstructs airflow means you could be heating and cooling the back of a chair instead of the actual living space. Remove or rearrange obstacles blocking airflow.
6. **Try 75 degrees:** 75°F is a good point for an air conditioner to run at its optimal performance level. Even a 5-degree change in temperature can make your unit use up to 40% more energy.

7. **Lighting:** Turning lights off can help reduce your heat. Each light bulb is a tiny heater. Your air conditioner must waste energy overcoming the heat from your lights to reach and hold your desired room temperature.
8. Is anyone home? If possible, while you're away turn your unit to Auto mode and make sure windows and curtains are closed. Although room temperature may be less than optimal for a few minutes when you return, the unit will soon have the room back to your desired temperature.
9. **Don't forget the fan:** The fan is much like a car. The faster it runs, the more energy it uses. Sometimes we need the car to go fast, but slow is good enough most of the time. Try saving money by using the comfortable quiet low fan speed as much as possible.

DIAGNOSTIC CODES

The Livo System has onboard diagnostics. The outdoor unit will provide status indicators. The indoor wall unit and remote controller will display error codes. The following is a summary of the codes with explanation:

Malfunction Name	Indoor Unit & Remote Display	Outdoor Unit Indicator		Possible Causes
		Yellow	Red	
System High Pressure	E1			1) Overcharged with refrigerant. 2) Blocked or dirty outdoorcoil 3) Extreme outdoor ambientconditions
IndoorAnti-Freeze Protection	E2	3 flashes and 1 sec Off		1) Low return airflow. 2) Indoor fan speed is too low. 3) Indoorcoil is blocked or dirty
Refrigerant Leakage Protection	F0		9 flashes and 1 sec Off	1) refrigerant leak(s). 2) Indoorcoil temperature sensor no calibrated. 3) Refrigerant flow is restricted (ex. valve, exv, debris)
Refrigerant Leakage Protection	E4	7 flashes and 1 sec Off		Please refer to the malfunction analysis (discharge temperature, overload) in service manual.
Overcurrent Protection	E5	5 flashes and 1 sec Off		1) Supply voltage is unstable. 2) Supply voltage is too low and system load is too high. 3) Indoorcoil is blocked or dirty
Communication Malfunction	E6	Continuous On		1) Communication cable is mis-wired between indoor and outdoor units. 2) Indoor or

				Outdoor control board malfunction
High Temperature Resistant Protection	E8	6 flashes and 1 sec Off		1) Incorrect refrigerant charge level. 2) Refrigerant metering device malfunction. 3) Compressor malfunction.
EEPROM Memory Malfunction	EE	11 flashes and 1 sec Of		Control board malfunction.
System Configuration Malfunction	C5			1) No jumpercap inserted on the control board. 2) Incorrect or damaged jumpercap on control board. 3) Indoor and outdoor units are not compatible.
Pump Down or Gathering Refrigerant Status	Fo	17 flashes and 1 sec Off		Optional Service Mode
Indoor Ambient Temperature Sensor Malfunction	F1			1) Loose or bad connection between sensor and control board. 2) Indoor ambient temperature sensor damaged. 3) Control board malfunction.
Indoor Coil Temperature Sensor Malfunction	F2			1) Loose or bad connection between sensor and control board. 2) Indoor coil temperature sensor damaged. 3) Control board malfunction.
	F3		6 flashes	1) Loose or bad connection between

OutdoorAmbient Temperature Sensor Malfunction			and 1 sec Off	sensor and control board. 2) Indoor ambient temperature sensor damaged. 3) Control board malfunction.
Outdoor Coil Temperature Sensor Malfunction	F4		5 flashes and 1 sec Off	1) Loose or bad connection between sensor and control board. 2) Indoor coil temperature sensor damaged. 3) Control board malfunction.
Outdoor Discharge Temperature Sensor Malfunction	F5		7 flashes and 1 sec Off	1) Loose or bad connection between sensor and control board. 2) Discharge temperature sensor damaged. 3) Control board malfunction
1) Loose or bad connection between sensor and control board. 2) Discharge temperature sensor damaged. 3) Control board malfunction	PH	13 flashes and 1 sec Off		1) Supply voltage on L1 and N is above 265Vac. 2) Capacitor on control board malfunction. 3) Outdoorcontrol board malfunction.
Low DC BusVoltage Protection	PL	12 flashes and 1 sec Off		1) Supply voltage on L1 and N is below 150Vac. 2) Capacitor on control board malfunction. 3) Outdoorcontrol board malfunction.
Compressor Phase Current Protection	P5			1) IPM module malfunction. 2) Outdoor control board malfunction 3) Compressor malfunction.

Capacitor Charging Malfunction	PU			Capacitor malfunction
Module Temperature Sensor Malfunction	P7			Outdoor control board malfunction
Module Temperature Protection	P8			1) Lack of thermal grease on IPM module. 2) Heat sink (radiator) not tightly mounted. 3) Control board malfunction.
Compressor Overload Protectio	H3	8 flashes and 1 sec Of		1) Wiring terminal OVC-COMP is loose. 2) Refer to the malfunction analysis in Service Manual.
IPM Module Protection	H5	4 flashes and 1 sec Of		1) IPM module over heating. 2) Improper or Low voltage at the IPM module. 3) IPM module malfunction.
Indoor DC Fan Motor Malfunction	H6			1) Loose connections between fan motor and control board 2) Fan motor or blower wheel bearings malfunction. 3) Control board malfunction.
Compressor De-Synchronized Malfunction	H7			1) Compressor voltage is not balance. 2) Control board malfunction 3) Compressor malfunction
	HC			1) Mis-wiring of the reactor filter and PFC capacitor.

Power Factor Correction (PFC) Protection		14 flashes and 1 sec Off		2) Reactor filter or PFC capacitor malfunction. 3) Control board malfunction.
Outdoor Fan Motor Malfunction	L3		14 flashes and 1 sec Off	1) Loose connections between fan motor and control board 2) Fan motor malfunction. 3) Control board malfunction.
Incompatible Indoor and Outdoor Units	LP	16 flashes and 1 sec Off		Indoor and outdoor units are not compatible.
Start-Up Malfunction	LC			1) Overcharged with refrigerant. 2) Control board malfunction. 3) Compressor malfunction.
Compressor Phase-Current Detection Malfunction	U1			Outdoor control board malfunction
DC BusVoltage Level Dropping Malfunction	U2			Unstable supply voltage
Current Detection Malfunction	U3			Outdoor control board malfunction
ReversingValve Malfunction	U4			1)Voltage to reversing valve is less than 175V. 2) Loose connections between reversing valve and control board. 3) Reversing valve solenoid malfunction.
Zero Crossing Detection Malfunction	U9			Zero Crossing Detection Malfunction

Defrosting Status	note 1	16 flashes and 1 sec Off		
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Notes:

1. During defrosting process, the heating indicator is on for 10s and off for 0.5s.
2. Refer to Service Manual for additional information.

LIMITED WARRANTY STATEMENT

FOR WARRANTY SERVICE OR REPAIR:

Contact your installing contractor. You may find the installer's name on the equipment or in your Owner's packet. Complete product registration below and send back by email to Service@twclimate.com.

PRODUCT REGISTRATION

Gree Distributor Company warrants this product against failure due to defect in materials or workmanship under normal use and maintenance as follows. All warranty periods begin on the date of original installation. If a part fails due to defect, Gree will provide a replacement for the failed defective part at no charge for the part. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below.

- A warranty period of Five (5) years on all parts to the original registered end user.
- A warranty period of One (1) year on the remote control provided with the original unit.
- Limited warranty applies only to systems that are properly installed by a state certified or licensed HVAC contractor under applicable local and state law in accordance with all applicable building codes and permits; GREE installation and operation instructions and good trade practices.
- Warranty applies only to products remaining in their original installation location.
- Defective parts must be returned to the distributor through a registered servicing dealer for credit.

LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE

ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

When all qualifications for warranty have been met, replacement unit will be provided when an indoor coil, outdoor coil, compressor, reversing valve or EEV is confirmed faulty. The replacement unit will be of the closest capacity and efficiency and relates to the confirmed failed component and complete system.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosis, repairing, removing, installing, shipping, servicing or handling of either failed parts or replacement parts.
2. Product cleaning required prior to warranty service and repair.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual including filter cleaning and replacement and lubrication.
4. Failure or damage due to abuse, misuse, accident, alterations, or misapplication.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive atmosphere or other conditions beyond the control of Company.
7. Failure or damage of coils or piping due to corrosion on installations within one (1) mile of sea coast or corrosive body.
8. Parts not supplied or designated by Company, or damages resulting from their use.
9. Products installed outside continental USA and Canada.
10. Electricity or fuel costs increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
11. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
12. Shipping damage or damage as a result of transporting the unit.
13. Accessories such as condensate pumps, line sets and so forth are not covered.
14. Any special, indirect or consequential property or commercial damage of any nature whatsoever. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.



