Mini-Split **User manual**

M22D***S6-1P

- Thank you for purchasing this Lennox Product.
- Before operating this unit, please read this manual carefully and retain it for future reference.





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California Proposition 65 Warning (US)

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.

Before using your new mini-split, please read this manual thoroughly to ensure that you know how to operate the extensive features and functions of your new appliance safely and efficiently.

Because the following operating instructions cover various models. the characteristics of your mini-split may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www. lennox.com for homeowners and www.lennoxpros.com for dealer/ contractor.

ENERGY STAR qualified model only

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www. energystar.gov.





⚠ WARNING

Hazards or unsafe practices that may result in severe personal injury or death.



⚠ CAUTION

Hazards or unsafe practices may result in minor personal injury or property damage.

- Follow directions.
- O Do NOT attempt.
- Make sure the machine is grounded to prevent electric shock.
- (a) Cut off the power supply.
- Do NOT disassemble.

Symbol	Meaning	
	Flammable gas	
	flammable materials	
Refrigerant Safety Group A2L	Refrigerant safety group	
	Read operating manual	
Ţį.	Refer to operating manual	
	Read service manual	

FOR INSTALLATION



⚠ WARNING



• Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.

- Extending the power line may result in electric shock or fire.
- Do not use an electric transformer. This may result in electric shock or fire.
- If the voltage/frequency/rated current condition is different, it may a cause fire.

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.

Install a switch and a circuit breaker dedicated to the minisplit.

- Failing to do so may result in electric shock or fire.
- Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.
- Failing to do so may result in electric shock or fire.
- O Do not install this appliance near a heater, or flammable 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.

Never install the outdoor unit in a location such as on a high external wall where it could fall.

• If the outdoor unit falls, it may result in injury, death or property damage.



- This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.
 - Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.



↑ CAUTION

- Install your appliance on a level and hard floor that can support its weight.
 - Failing to do so may result in abnormal vibrations, noise, or problems with the product.

Install the drain hose properly so that the water is drained correctly.

• Failing to do so may result in water overflowing and property damage. Avoid adding drains to waste pipes as odors may arise in the future.

The product shall be stored in a room with no ignition sources (e.g. open flames, gas appliance, electric heater, etc.).

• Note that the refrigerant has no odor.

When installing the outdoor unit, make sure to connect the drain hose so that draining is performed correctly.

• The water generated during the heating operation in the outdoor unit may overflow and result in property damage. In winter, if a block of ice falls, it may result in injury, death or property damage.

FOR POWER SUPPLY



⚠ WARNING

- When the circuit breaker is damaged, contact your nearest service center.
- Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.
 - This may result in electric shock or fire.



↑ CAUTION



When not using the mini-split for a long time or during a thunder/lightning storm, cut the power at the circuit breaker.

• Failing to do so may result in electric shock or fire.

FOR USING



♠ WARNING



If the appliance is flooded, please contact your nearest service center.

• Failing to do so may result in electric shock or fire.

If the appliance generates a strange noise, a burning smell or smoke, cut off the power supply immediately and contact the nearest service center.

• Failing to do so may result in electric shock or fire.

In case of a malfunction, immediately stop operation of the mini-split and disconnect the entire power system. Then consult the authorized service personnel.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.

- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

To reinstall the mini-split, 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.
- Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to salt in the air, please contact your nearest service center.
- O Do not touch the circuit breaker with wet hands.
 - This may result in electric shock.

Do not turn the mini-split off with the circuit breaker while it is operating.

 Turning the mini-split off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.

After unpacking the mini-split, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.

 If a child places a bag over its head, it may result in suffocation.

Do not touch the front panel with your hands or fingers during the heating operation.

- This may result in electric shock or burns.
- O not insert your fingers or foreign substances into the outlet when the mini-split is operating, or the front panel is closing.
 - Take special care that children do not injure themselves by inserting their fingers into the product.

Do not insert your fingers or foreign substances into the air inlet/outlet of the mini-split.

• Take special care that children do not injure themselves by inserting their fingers into the product.

Do not strike or pull the mini-split with excessive force.

• This may result in fire, injury, or problems with the product.

Do not place an object near the outdoor unit that allows children to climb onto the machine.

• This may result in children seriously injuring themselves.

Do not use this mini-split for long periods in badly ventilated locations or near infirm people.

• Since this may be dangerous due to a lack of oxygen, open a window at least once an hour.

Do not use means to accelerate the defrost operation or to clean, other than those recommended by Lennox.

Do not pierce or burn.

Be aware that refrigerants may not contain an odor.

- If any foreign substance such as water has entered the appliance, cut off the power supply and contact the nearest service center.
 - Failing to do so may result in electric shock or fire.
- Do not attempt to repair, disassemble, or modify the appliance yourself.

- Do not use any fuse (such as copper, steel wire, etc.) other than the standard fuse.
- Failing to do so may result in electric shock, fire, problems with the product, or injury.

↑ CAUTION



Do not place objects or devices under the indoor unit.

 Water dripping from the indoor unit may result in fire or property damage.

Check that the installation frame of the outdoor unit is not broken at least once a year.

 Failing to do so may result in injury, death or property damage.

When the mini-split does not operate properly for cooling or heating, there is a possibility of refrigerant leakage. If there is any leakage, stop operation, ventilate the room, and consult your dealer to recharge the refrigerant.

The refrigerant is not harmful. However, if it comes in contact with fire, it may generate harmful gases and there is a risk of fire.

- During the transportation of the indoor unit, the pipelines shall be covered with brackets for protection. Do not move the product by holding the refrigerant or drain pipe connections.
 - It may cause gas leakage.

Do not install the product on a ship or a vehicle (such as a campervan).

- Salt, vibration or other environmental factor may cause the product malfunction, electric shock or fire.
- On not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.

• This may result in electric shock, fire, problems with the product, or injury.

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 drink the water from the mini-split.

• The water may be harmful to humans.

Do not apply a strong impact to the remote controller and do not disassemble the remote controller.

Do not touch the pipes connected to the product.

This may result in burns or injury.

Do not cut or burn the refrigerant container or piping.

Do not point the air direction to a fireplace or heater.

Do not use this mini-split to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.

• This may result in property damage.

Avoid directly exposing humans, animals or plants to the air flow from the mini-split for long periods.

• This may result in harm to humans, animals or plants.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

FOR CLEANING



⚠ WARNING

- O 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

Before cleaning or performing maintenance, cut off the power supply and wait until the fan stops.

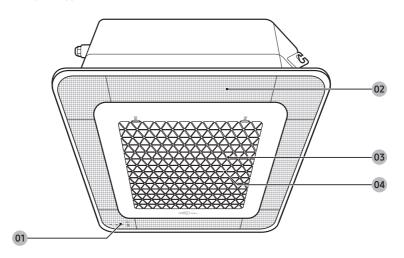
• Failing to do so may result in electric shock or fire.

⚠ CAUTION

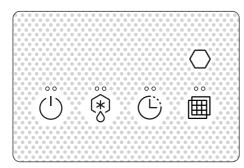
- Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.
 - To avoid cutting your fingers, wear thick cotton gloves when cleaning it.
 - This should be done by a qualified technician. Please contact your installer or service center.
- O Do not clean the inside of the mini-split by yourself.
 - For cleaning inside the appliance, contact your nearest service center.
 - When cleaning the internal filter, refer to the descriptions in the 'Cleaning and Maintaining' section.
 - Failure to do so may result in damage, electric shock or fire.
 - Make sure to prevent any injury from sharp edges of the surface when handling the heat exchanger.

Indoor Unit Overview

The indoor unit and its display may look slightly different from the illustration shown below, depending on the model and the panel type.



01 Display



O2 Air flow blade/Air outlet (inside) / 4-Way (2x2) panel (You can use the Wind-Free Cooling function when the Cool, Dry, or Fan mode is running.) (Refer to the remote control manual for product operation)

Indication	Function	
Ů	On/Off operation indicator	
*	Removing frost indicator	
(1)	Timer indicator	
	Filter cleaning indicator	
\bigcirc	Remote control sensor	

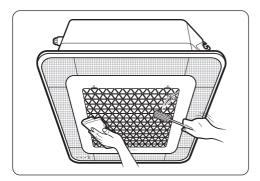
- 03 Air intake
- **04** Air filter (under the grille)

Cleaning and Maintaining



Before cleaning the indoor unit, be sure to turn off the auxiliary power switch.

Cleaning the indoor unit exterior



Wipe the surface of the unit with a slightly wet or dry cloth when needed. Wipe off dirt of odd-shaped areas by using a soft brush.

A CAUTION

- Do not use alkaline detergent, sulphuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, and acetone) to clean the surfaces.
- Do not attach any stickers on the surfaces because this may cause damage.
- When you clean the heat exchanger on the indoor unit, you need to disassemble the indoor unit. Therefore, you must contact the local service center for help.

Cleaning the outdoor unit heat exchanger



A CAUTION

 The heat exchanger of the outdoor unit has sharp edges. Take care when cleaning its surface.

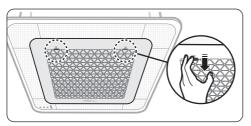
NOTE

 If it is difficult to clean the heat exchanger of the outdoor unit, contact the local service center.

Cleaning the air filter

↑ CAUTION

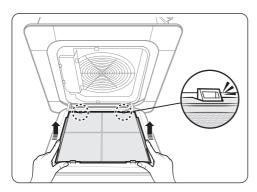
- Before cleaning the indoor unit, be sure to turn off the auxiliary power switch.
- Be sure to hold the grille with a hand to prevent dropping from the opening of the front grille.
- Detaching the air filter



Push down the hooks at each side of the front grille to open the grille.



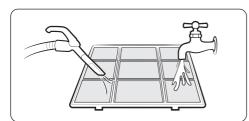
The hooks are located on both sides of the front grill with the Lennox logo.



Pull out the air filter from the indoor unit.

Cleaning and Maintaining

2 Cleaning the air filter



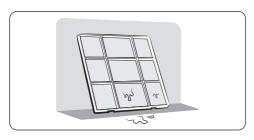
Clean the air filter with a vacuum cleaner or soft brush. If dust is too heavy, then rinse it with running water and dry it in a ventilated area.

A CAUTION

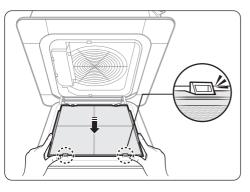
Do not scrub the air filter with a brush or other cleaning utensil. This may damage the filter.

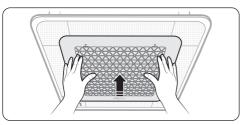


- If the air filter dries in a humid area, it may produce offensive odors. Clean it again and dry it in a well-ventilated area.
- The cleaning period may differ depending on the usage and environmental conditions, so clean the air filter every week if the indoor unit is in a dusty area.



3 Reassembling the air filter

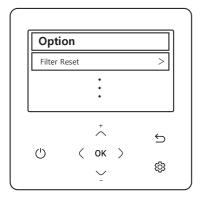


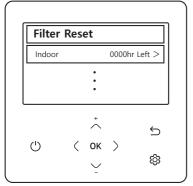


↑ CAUTION

• If the indoor unit is used without the air filter, the indoor unit may be damaged due to dust.

4 Resetting the filter-cleaning reminder (Wired and wireless remote controls are optional.)







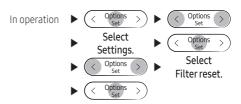
After cleaning and reassembling the air filter, be sure to reset the filter-cleaning reminder as follows :

- Indoor unit with the wired controller:
 - a. Press the 🕄 button to display the **Option** menu.
 - b. Press the button to select **Filter Reset** and press the **OK** button.
 - c. Press the button to select **Indoor** and press the **OK** button to display **Filter using time**.
 - d. Press the **OK** button to reset the air filter.

Cleaning and Maintaining



Indoor unit with the wireless remote control:



⚠ CAUTION

- The filter reset indicator blinks when the air filter should be cleaned.
- Although the filter cleaning indicator (does not light, be sure to set the "Filter Reset" after cleaning the air filter.
- If the angle of the airflow blade is changed by opening the front grille for installation or maintenance of the indoor unit, be sure to turn off and then on the auxiliary switch before operating the indoor unit again. If not, the angle of the air flow blade may be changed, and the blades may not be closed after turning off the indoor unit.

Periodic maintenance

Refer to the following chart to maintain the mini-split properly.

Unit	Maintenance item	Interval	Requires qualified technicians
	Clean the air filter.	At least once a month	
	Clean the condensate drain pan.	Once a year	Required
Indoor unit	Clean up the heat exchange.	Once a year	Required
	Clean the condensate drainpipe.	Once every 4 months	Required
	Replace R-32 detecting sensor.	10 years	Required
	Clean the heat exchanger on the outside of the unit.	Once every 4 months	Required
	Clean the heat exchanger on the inside of the unit.	Once a year	Required
	Clean the electric components with jets of air.	Once a year	Required
Outdoor unit	Verify that all the electric components are firmly tightened.	Once a year	Required
	Clean the fan.	Once a year	Required
	Verify that the fan assemblies are firmly tightened.	Once a year	Required
	Clean the condensate drain pan.	Once a year	Required

NOTE

- The checks and maintenance operations described above are essential to guarantee the efficiency of the
 mini-split. The frequency of these operations may vary depending on the characteristics of the area, the
 amount of dust, etc.
 - 1. The above mentioned operations should be performed more frequently if the area of installation is very dusty.
 - 2. These operations must always be performed by qualified personnel. For more detailed information, refer to the Installation Manual.
 - 3. In some cases, if the period of use of the R-32 detecting sensor exceeds 5 years, "E695" is displayed on the wired controller. the product does not work. Six months before the expiration of the period of use date, "E699" is displayed on the wired controller, and the product work nomally. If the period of use date exceeds 10 years, the wired controller displays "E700", and the product does not work. It must be replaced through Lennox Service Center before the expiration of the period of use date.

Troubleshooting

Refer to the following chart if the mini-split operates abnormally. This may save time and unnecessary expense.

Problem	Solution		
The product does not work. Error E696	 This is intended to determine whether there is a leak or not, as R-32 refrigerant is sensed. The indoor unit determines again whether or not there is a refrigerant leak while operating for 2 minutes using Fan mode (specifically High speed). If there is no refrigerant leak, the indoor unit stops operating, the error is cleared and the product can operate normally. The R-32 sensor, embedded in the indoor unit, reacts not only to R-32 refrigerant but also to high-concentration chemicals (e.g. organic solvents, hair spray and paint). Do not use any high-concentration chemicals in the vicinity of the indoor unit, as these may cause false operation of the sensor. 		
The product does not work. Error E697	 This error occurs when indoor unit detect R-32 refrigerant leaks. Ventilate the room for which the alarm was activated. Contact the Lennox service center for assistance. 		
The product does not work. Error E116, E695, E698, E699, E700	 This error occurs when the R-32 refrigerant sensor has a malfunction or the sensor's life has expired. Display "E116" or "E698" when a sensor failure occurs. The R-32 sensor's lifespan is 10 years. If the refrigerant leak sensor's lifespan cannot be predicted, "E695" is displayed, and the product does not work. The wired controller displays "E699" 6 months before the sensor's lifespan expires. After the sensor's lifespan expires, the wired controller displays "E700", and the product does not work. Contact the Lennox service center for assistance. 		
The product does not work. Error E797	 This error occurs when another indoor unit that shares the outdoor unit detects the R-32 refrigerant. Ventilate the of Room for which the alarm was acticated. Contact the Lennox service center for assistance. 		
The mini-split does not operate immediately after it has been restarted.	Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The mini-split will start in 3 minutes.		

Problem	Solution		
The mini-split does not operate at all.	 Check whether the power is turned on, and then operate the mini-split again. Check whether the auxiliary power switch (MCCB, ELB) is turned on. If the auxiliary power switch (MCCB, ELB) is turned off, the mini-split does not work although you press the () (Power) button. When you clean the mini-split or do not use it for an extended period, turn off the auxiliary power switch (MCCB, ELB). After the mini-split is not used for an extended period, be sure to turn on the auxiliary power switch (MCCB, ELB) 6 hours before starting operation. NOTE The auxiliary power switch (MCCB, ELB) is sold separately. Make sure that an auxiliary power switch (MCCB, ELB) is installed in the distribution box inside the building. If the mini-split is turned off by the Timed off function, turn on the mini-split again by pressing the () (Power) button. 		
The temperature does not change.	Check whether the Fan mode is running. In the Fan mode, the mini-split controls the set temperature automatically, and you cannot change the set temperature.		
Warm air does not come out of the mini-split.	 Check whether the outdoor unit is designed for cooling only. In this case, warm air does not come out although you select the Heat mode. Check whether the remote control is designed only for cooling only. Use a remote control that supports both cooling and heating. 		
The fan speed does not change.	Check whether the Dry mode is running. In these modes, the mini-split controls the fan speed automatically, and you cannot change the fan speed.		
The wireless remote control does not operate.	 Ensure the remote control is charged. Use the USB-C port or the solar cell on the back of the controller to charge the controller. Make sure that nothing is blocking the remote control sensor. Check whether any strong lighting sources are near the mini-split. Strong light that comes from fluorescent bulbs or neon signs may interfere with the remote control. 		
The wired controller does not operate.	Check whether the (!) indicator is displayed at the bottom right of the remote control display. In this case, turn off both the mini-split and the auxiliary power switch, and then contact a service center.		

Troubleshooting

Problem	Solution		
The mini-split is not turned on or off immediately with the wired controller.	Check whether the wired controller is set for group control. In this case, the mini-split connected to the wired controller are turned on or off sequentially. This operation takes up to 32 seconds.		
The Timed on/off function does not operate.	Check whether you pressed the () (SET) button on the remote control after setting the on/off time. Set the on/off time.		
The indoor unit display blinks continuously.	 Turn on the mini-split again by pressing the (b) (Power) button. Turn off and then turn on the auxiliary power switch, and then turn on the conditioner. If the indoor unit display is still blinking, contact a service center. 		
I want to get cooler air.	Operate the mini-split with an electric fan to save energy and enhance the cooling efficiency.		
The air is not cool or warm enough.	 In the Cool mode, cool air does not come out if the set temperature is higher than the current temperature. -Remote control: Press the Temperature button repeatedly until the set temperature [minimum: 64 °F (18 °C)] is set to lower than the current temperature. In the Heat mode, warm air does not come out if the set temperature is lower than the current temperature. -Remote control: Press the Temperature button repeatedly until the set temperature [maximum: 86 °F (30 °C)] is set to higher than the current temperature. Both cooling and heating do not operate in the Fan mode. Select the Cool, Heat, Auto, or Dry mode. Check whether the air filter is blocked with dirt. A dusty filter may decrease the cooling and heating efficiencies. Clean the air filter frequently. If a cover is on the outdoor unit or any obstacle is present near the outdoor unit, remove it. Install the outdoor unit in a well-ventilated place. Avoid places exposed to direct sunlight or close to a heating appliance. Place a sunscreen over the outdoor unit to protect it from direct sunlight. If the indoor unit is installed in a place exposed to direct sunlight, pull the curtains on the windows. 		

Problem	Solution	
The air is not cool or warm enough.	 Close the windows and doors to maximize the cooling and heating efficiencies. If the Cool mode is stopped and then started immediately, cool air comes out after about 3 minutes to protect the compressor of the outdoor unit. When the Heat mode is started, warm air does not come out immediately to prevent cool air from coming out at the beginning. If the refrigerant pipe is too long, the cooling and heating efficiencies may be decreased. Avoid exceeding the maximum pipe length. 	
The mini-split makes strange noises.	 In certain conditions [especially, when the outdoor temperature is lower than 68°F (20°C)], a hissing, rumbling, or splashing sound may be heard while the refrigerant is circulating through the mini-split. This is a normal operation. When you press the (1) (Power) button on the remote control, noise may be heard from the drain pump inside the mini-split. This noise is normal. 	
Unpleasant odors permeate the room.	 If the mini-split is running in a smoky area or if there is a smell entering from outside, ventilate the room properly. If both indoor temperature and indoor humidity are high, operate the min split in the Clean or Fan mode for 1 to 2 hours. If the mini-split has not been operated for an extended period, clean the indoor unit and then operate the mini-split in the Fan mode for 3 to 4 hou to dry the inside of the indoor unit to remove unpleasant odors. If the air filter is blocked with dirt, clean the air filter. 	
Steam is produced on the indoor unit.	• In winter, if the indoor humidity is high, steam may be produced around the air outlet while the defrost function is running. This is a normal operation.	
The outdoor unit fan continues to operate when the mini-split is turned off.	 When the mini-split is furned off the outdoor unit tan may continue 	
Water drops from the piping connections of the outdoor unit.	Condensation may develop due to the temperature difference. This is a normal condition.	
Steam is produced on the outdoor unit.	In winter, when the mini-split runs in Heat mode, the frost on the heat exchanger melts and steam may be produced. This is a normal operation, neither product malfunction nor a fire.	

Operation Features

Operating temperature and humidity

When using the mini-split follow the operating temperature and humidity ranges.

Indoor unit / Outdoor unit: M22D***S6-1P / MMLD***S6S-1P

Model	Mode	Indoor temperature	Outdoor temperature	Indoor humidity
	Cooling	64°F to 90°F (18°C to 32°C)	0°F to 122°F (-18°C to 50°C)	80% or less
M22D009S6-1P M22D012S6-1P	Heating	86°F or less (30°C or less)	-13°F to 75°F (-25°C to 24°C)	-
	Drying	64°F to 90°F (18°C to 32°C)	0°F to 122°F (-18°C to 50°C)	80% or less
	Cooling	64°F to 90°F (18°C to 32°C)	-4°F to 122°F (-20°C to 50°C)	80% or less
M22D018S6-1P	Heating	86°F or less (30°C or less)	-13°F to 75°F (-25°C to 24°C)	-
	Drying	64°F to 90°F (18°C to 32°C)	-4°F to 122°F (-20°C to 50°C)	80% or less

Indoor unit / Outdoor unit: M22D***S6-1P / MM*D***S6M-1P

Mode	Indoor temperature	Outdoor temperature	Indoor humidity
Cooling	64°F to 90°F (18°C to 32°C)		80% or less
Heating	86°F or less (30°C or less)	Depending on the outdoor unit specifications	-
Drying	64°F to 90°F (18°C to 32°C)		80% or less

↑ CAUTION

- If you use the mini-split at a relative humidity above 80%, it may cause a formation of condensation and a leakage of water on the floor.
- The rated temperature for heating is 47°F (8°C). If the outdoor temperature drops to 32°F (0°C) or below, the heating capacity can be reduced depending on the temperature condition.
- If the indoor unit is out of the operating temperature and humidity range, the safety device may operate, and the mini-split may stop.



Visit us at www.lennox.com
For the latest technical information, www.lennoxcommercial.com
Contact us at 1-800-4-LENNOX

COUNTRY	CALL	OR VISIT US ONLINE AT
AMERICA	800-953-6669	www.lennox.com for homeowners, www.lennoxpros.com for dealer/contractor