Motion Detection Sensor (MDS) Kit
Installation manual

V1MDS02CS

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

LENNOX Powered by **SAMSUNG**

Contents

Safety Information

California Proposition 65 Warning (US)

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

This manual explains how to install a Motion Detection Sensor (MDS) kit onto an indoor unit and how to use it.
Please read this manual thoroughly before installing and using the MDS Kit.

⚠ WARNING

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

⚠ CAUTION

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

⚠ WARNING

🛈 **Contact a qualified installer or a service center for the installation.**

When detaching or disposing of an MDS Kit, contact a qualified installer or a service center.

- Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury and may also void warranty on the installed product.

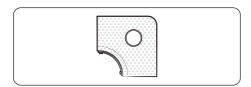**Install an MDS Kit securely in a designated place, using the installation accessories.**

- If the MDS Kit is not installed securely, the component might fall off and get damaged.

🚫 **Do not attempt to repair, disassemble, or modify the appliance yourself.**

- Failing to do so may result in product malfunction, electric shock, or fire.
  So when repairing the product, contact a qualified installer or a service center.

Installation

Motion detection sensor (MDS) Kit

Accessories

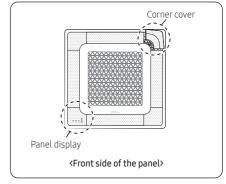| Item	Connection wire	Cable tie	Installation manual/User manual
Quantity	1	2	1
Shape			

⚠ CAUTION

- When installing the MDS Kit, be sure to use the kit and accessories designated by Lennox.

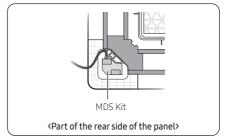## Installing the Motion detection sensor (MDS) Kit

1   If the panel is already installed onto the indoor unit, remove it from the indoor unit.
    For more information about removing the panel, refer to the Panel installation manual.

⚠ CAUTION

- Only install the MDS Kit onto panels that are not connected to an indoor unit.

2   Remove the corner cover from the panel, located at the opposite diagonal corner of the panel display.

Corner cover

Panel display

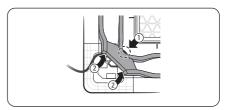<Front side of the panel>

3   Mount the MDS Kit onto the same location.

MDS Kit
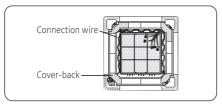
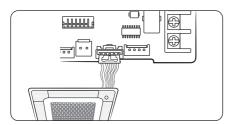<Part of the rear side of the panel>

📄 NOTE

- The MDS Kit can only be installed in the designated corner.

4   Arrange the connection wire:

    a Push the hook ① on the cover-back.
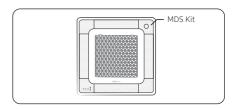   **b** Lift up the cover-back in the direction of arrows ② as shown in the figure.

c Arrange the connection wire using the supplied cable ties so that, when the cover-back is back in place, it is located under the cover-back.

d Lower down the cover-back so that it is in place.

Connection wire

Cover-back

5 When connecting the MDS Kit harness to the indoor unit PBA, the wire harness plug color and pin quantity will match the appropriate plug on the PBA.

6 Assemble the panel onto the indoor unit.
For more information about assembling the panel, refer to the Panel installation manual.

MDS Kit

7 Set the MDS Kit installation option using the wired or wireless remote control.

📄 **NOTE**

- Because the indoor unit ships with the MDS Kit installation options set to "Disuse", you must change the value of the MDS Kit installation option.

- For more information about how to set the MDS Kit installation options, see **Setting the Motion detection sensor (MDS) Kit installation option** on page 7 and the indoor unit installation manual.

- Enter the installation option value more than twice.

- After entering the installation option value, reset the indoor unit to check for correct operation.

Installation troubleshooting

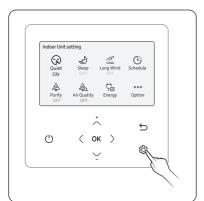| Abnormal conditions	LED lamp display				Remarks
	Operation	Defrost	Timer	Filter	
	⏻	❄	🕑	🔲	
MDS Kit error indication (displayed on the indoor unit)	◑	X	X	◑	

● On　　◑ Flickering　　X Off

If you turn off the air conditioner when an LED is flickering, the LED is also turned off.

Operation

Turning the Motion Detection Sensor (MDS) Kit on or off

Using Programmable Wired Controller

Press the motion detection sensor button on the Programmable Wired Controller to turn the motion detection sensor on or off.

Indoor Unit setting

Quiet ON	Sleep OFF	Long Wind OFF	Schedule
Purify OFF	Air Quality OFF	Energy	Option

1. Press the ⚙ button.
2. Press the ⌃ ⌄ or ⟨ ⟩ button to select Option, and then press the **OK** button.
3. Select 'Motion Detection'.

Air Flow Direction
4   Move to 'Air Flow Direction' page.

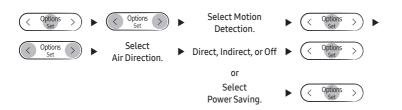| Power Saving |
|---|
| Available options: ON/OFF |
| •   Switches to Power Saving mode if no motion is sensed. |

Motion Detection Comfort
•   Available options: ON/OFF
•   Automatically activated if a motion is sensed.

📄 **NOTE**

• The Programmable Wired Controller must be installed together with the indoor unit.

Using wireless remote control

⟨ Options Set ⟩ ▶ ⟨ Options Set ⟩ ▶ Select Motion Detection. ▶ ⟨ Options Set ⟩ ▶

⟨ Options Set ⟩ ▶ Select Air Direction. ▶ Direct, Indirect, or Off ▶ ⟨ Options Set ⟩

or

Select Power Saving. ▶ ⟨ Options Set ⟩

Option Selection	Indirect	Direct	No Selection
Standard Mode	Motion Detection Sensor On(only Turn off the set)		Motion Detection Sensor Off
Premium Mode	Indirect Flow Control	Direct Flow Control	Motion Detection Sensor Off

📄 **NOTE**

• In the Standard mode, Indirect/Direct is displayed on the wireless remote control, but does not operate.
• The Indirect/Direct function is supported only in the Premium mode.

Operation

Setting the Motion detection sensor (MDS) Kit installation option

Set SEG23, the MDS Kit installation option of the indoor unit where the MDS Kit is installed, to the desired value with referring to the table below.

Function	SEG23	Soft Off + Hard off	SEG23	Soft Off only
	0	Disuse		
Standard Mode	1	Off after 20 min. (from the last motion detection)	7	Off after 20 min.
	2	Off after 40 min.	8	Off after 40 min.
	3	Off after 80 min.	9	Off after 80 min.
Premium Mode	4	Off after 20 min.	A	Off after 20 min.
	5	Off after 40 min.	B	Off after 40 min.
	6	Off after 80 min.	C	Off after 80 min.

SOFT OFF: The indoor unit turns off its operation at the indicated time in the table for Installation Option after its final motion detection. But, it turns on again if the MDS detects motion.

HARD OFF: Designated time after SOFT OFF, it cannot turn on automatically when it detects motion. The indoor unit will need to be turned on manually by the occupant using a Programmable Wired Controller, wireless controller, or central control.

📄 **NOTE**

- Detectable MDS area: 19.68 ft (6 m) radius at 8.86 ft (2.7 m) height.
- When the air conditioner supports the Wind-Free Cooling function, it operates the Wind-Free Cooling function automatically before the air conditioner turns off.
- If it happens repeatedly that the MDS Kit turns the air conditioner off and on, the kit reduces the time taken until the air conditioner is turned off for energy efficency.
- In the Standard mode, you can only turn on/off the air conditioner.
- In the Premium mode, you can also operate the functions such as turning on/off the air conditioner, comfort temperature and comfort saving controls.
- The MDS sensor may detect other heat sources, not humans, and perform the MDS functions.

Operation

Lennox comfort control features

The following Samsung comfort control features are activated when SEG23, the MDS Kit installation option of the indoor unit, is set to the Premium mode. For more information about the MDS Kit installation option, see **Setting the Motion detection sensor (MDS) Kit installation option** on page 7.

- **Indirect Flow:** When the MDS Kit detects motion, it moves the air flow blades to prevent the breeze from blowing directly toward the specified areas (locations where humans are).
- **Direct Flow:** When the MDS Kit detects motion, it moves the air flow blades to send the breeze directly toward the specified areas (locations where humans are).
- **Comfort Temperature:** When the temperature difference between the upper part and lower part of a room is significant, the MDS Kit moves down the air flow blades to mix airs and consequently to reduce the temperature difference.
- **Comfort Saving:** The MDS Kit detects motion in the room and controls the set temperature [up to the amount of +3.6°F(+2°C) for cooling, -3.6°F(-2°C) for heating] to reduce electricity consumption.

Operation troubleshooting

- If the MDS Kit has a connection problem or malfunction, the MDS Kit error E143 is indicated on both the panel display and the Programmable Wired Controller.
- Although the MDS Kit error occurs, the indoor and outdoor units normally operate without the MDS Kit functions.
- If the MDS Kit error persists, check the wire connection and contact a service center.