# Programmable Wired Controller User manual

### VSTAT04P-1

- 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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# **Safety Information**

California Proposition 65 Warning (US)



MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

This content is intended to protect the user's safety and prevent property damage. Please read it carefully for correct use of the product.



### / 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.





Make sure the machine is grounded to prevent electric shock.





O Do NOT disassemble.

#### FOR INSTALLATION



### **WARNING**

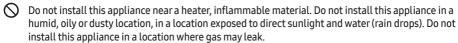


The installation of this appliance must be performed by a qualified technician or service company.

• Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

You must connect the product with rated power upon installation.

• Failing to do so may result in problems with the product, electric shock, or fire.



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



#### / CAUTION



Install the product on a hard and even place that can support its weight.

If the place cannot support its weight, the product may fall down and it may cause product damage.

#### FOR POWER SUPPLY



#### ♠ WARNING



Do not bend or pull the power cord excessively. Do not twist or tie up the power cord.

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

# **Safety Information**

#### FOR OPERATION



#### / WARNING



If the appliance generates a strange noise, a burning smell or smoke, unplug the product immediately and contact your nearest service centre.

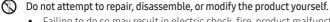
Failing to do so may result in electric shock or fire.

To reinstall the air conditioner, please contact your nearest service centre.

- 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.

#### If the malfunction diagnosis indicator appears or malfunctions, then stop operation immediately.

- If you detect any burning smells from the product or it malfunctions, then immediately turn off the air conditioner and power, and then contact the service centre. Continuing to use the device in this state can cause electrical shock, fire, or damage to the product.
- If the E836 indicator appears, then it means that it is time to contact the service centre for periodic inspection. Neglecting these periodic inspections can result in malfunctions (only applicable to GHP model).



• Failing to do so may result in electric shock, fire, product malfunction, or injury.



#### CAUTION



• Failing to do so may result in fire or explosion.



### O Do not operate the product with wet hands.

• Failing to do so may result in electric shock.

### Do not spray volatile material such as insecticide onto the surface of the product.

• As well as being harmful to humans, it may also result in electric shock, fire, or product malfunction.

Do not give a strong impact to the product and do not disassemble the product.

#### Do not use this product for other purposes.

• This product is designed to be used only for a system air conditioner.

#### Do not press the buttons with any sharp objects.

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

#### FOR CLEANING



#### ∕N WARNING



Do not clean the product by spraying water directly onto it. Do not use benzene, thinner, alcohol or acetone to clean the product.

• Failing to do so may result in discoloration, deformation, damage, electric shock, or fire.

# **Remote Controller Operation**

You can use the air conditioner easily by selecting a mode and then by controlling the temperature, fan speed, and air flow direction.

Use the  $\langle$  and  $\rangle$  buttons to select the desired menu, press the **OK** button, use the  $\wedge$ ,  $\vee$  buttons to select the desired item, and then press the **OK** button.

### **Operation modes**

You can change the current mode to Auto, Cool, Dry, Fan, and Heat.

### Controlling temperature

You can control the temperature in each mode as follows:

Mode	Temperature control					
Auto/Cool/Dry	Adjust by 1 °F (1 °C) between 65 °F (18 °C) and 86 °F (30 °C).					
Fan	You cannot control the temperature.					
Heat	Adjust by 1 °F (1 °C) between 61 °F (16 °C) and 86 °F (30 °C).					

### NOTE

 The set temperature range available on the remote controller may change depending on the set temperature range that indoor unit supports.

### Controlling fan speed

You can select the following fan speeds in each mode:

Mode	Available fan speeds
Auto/Cool/Heat	チ Auto Auto, ��ill Turbo, ��il High, ��i Medium, ��i Low
Dry	சூ auto Auto
Fan	<b>֍.ill</b> Turbo, <b>֍.il</b> High, <b>֍.</b> i Medium, <b>֍.</b> Low

# NOTE

- Sill Turbo appears active only on the indoor unit that supports the Turbo fan speed.
- While in Auto mode, it is possible to change the fan speed to Turbo, High, Medium or Low, only for indoor units that are set to allow fan speed change during Auto mode.

# **Remote Controller Operation**

### Controlling air flow direction

You can control air flow direction.

General models	➡ Fix, (≒ Swing, ∜ Swing, �� Individual
360 cassette model	Spot, 万、Mid, 貳、Wide, ౌ、Swing 360, 徐〈Individual

• For 360-cassette indoor unit

Mode	Programmable wired controller display	Indoor unit indicator
Spot	Ţ Spot	
Mid	<u>√</u> Mid	
Wide	, Wide	0
Swing	灭 Swing 360	$\bigcirc$ $\rightarrow$ $\bigcirc$ $\rightarrow$ $\bigcirc$

- If 360-cassette indoor units and other indoor units are installed together, the air flow direction does not change on the indoor units other than 360-cassette when Spot, Mid, or Wide is started as the air flow direction.
- You can select Individual air flow direction for each blade, when the individual indication appears active on the indoor unit that supports this mode.

### NOTE

- The displayed flow direction icon may differ depending on the indoor model.
- The current air flow direction persists even if you change the current mode, or turn off and then turn on the remote controller.
- Blades that can be selected for Individual may differ depending on the product model.
- When Blade lock is set, the locked blade appears inactive.

# **Cooling Operation**

The smart and powerful cooling functions of the Lennox product keep an enclosed space cool and comfortable.

#### Cool mode

Use the Cool mode to stay cool in hot weather.



- It is recommended to set the desired temperature between 75 °F (24 °C) and 79 °F (26 °C).
- To cool your room quickly, select a low temperature and a high fan speed.
- To save energy, select a high temperature and a low fan speed.
- As the indoor temperature approaches the set temperature, the compressor will operate at a low speed
  to save energy.

### Wind-Free function

Use the Wind-Free function to enjoy mild cool breeze exuding from fine holes on the Wind-Free panel with the air flow blade closed, instead of getting cool wind directly. The automated control of the temperature and fan speed according to the indoor temperatures keeps your room cool and pleasant.

### NOTE

- If the Wind-Free function is cancelled, the air conditioner returns to the previous fan speed.
- You can adjust the set temperature during the Wind-Free function, and recommended set temperatures are 24 to 26 °C (75 to 79 °F). However, you cannot change the set temperature in the Fan mode.
- You can use the Wind-Free function when the Cool, Dry, or Fan mode is running.
- If the room temperature increases because of rise of external temperature, heat from cooking, or other reason, operate normal cooling first to lower the temperature, before operating Wind-Free to keep the desired temperature.
- If you select the Wind-Free function in the Fan mode, the compressor stops working so that cool air does not come out. However, mild breeze comes out and starts to clean the air in the room.
- During the Wind-Free operation, the cold air may be intermittently weakened depending on the
  temperature and humidity in the room. But the wind-free air currents are maintained and the weakened
  cold air is immediately recovered, consequently keeping the room comfortable. (During the Wind-Free
  operation, the air flow blades may open to control the indoor air condition smoothly, depending on
  the installation settings. In this case, as soon as the indoor temperature and humidity change, the air
  flow blades are closed and the Wind-Free operation restarts. For more information on the installation
  settings, see "Setting the indoor unit addresses and the installation options" in the installation manual
  of the indoor unit.)

Change of the air flow blade by temperature and humidity							
Indoor	Low	Hi	gh				
temperature and humidity	Breeze is blown via the micro holes on the air flow blades	Breeze is blown via the micro holes on the air flow blades	Breeze comes from the air flow blade depending on the setting				
Air flow blade	Closed	Closed (default)	Opened (according to setting)				

When the Wind-Free function runs while sleeping, you may feel cold air if the air conditioner is installed
over the bed. In this case, set the desired temperature higher than the normal setting temperature.

# **Dehumidifying Operation**

The dehumidifying function of the Lennox product keeps an enclosed space dry and comfortable.

### Dry mode

Use the Dry mode in rainy or humid weather.

### NOTE

- · You cannot change fan speed in the Dry mode.
- The greater the difference between room temperature and set temperature, the longer the needed time
  to dehumidify the air is.
- When Dry mode is in use, the current humidity is displayed, depending on the indoor unit model.

# **Air Purifying Operation**

The air purification function of the Lennox product keeps the air in an enclosed space purified.

### **Purify function**

Use the Purify function to remove harmful materials in the air to provide you a clean and healthy environment.

This function is available in the Auto, Cool, Dry, Fan, and Heat modes.

### NOTE

- During the Air Purifying operation, dust is collected on the active filter panel.
- When the Purify function is additionally selected in the Fan mode, you cannot change the set temperature.
- When the Purify function is additionally selected while a specific mode is running, there is little
  difference in electricity consumption and operating noise.

### Air purity level indications

- The indications are displayed only on the models that support the air purity level display function.
- The air purity levels for PM10, PM2.5, and PM1.0 appear as follows:

Durity lovel	l	PM10	PM2.5/PM1.0		
Purity level	Purity level Colour		Colour	Concentration (µ/m³)	
Very Poor	Red	151 or more	Red	76 or more	
Poor	Yellow	81-150	Yellow	36-75	
Normal	Green	31-80	Green	16-35	
Good	Blue	30 or less	Blue	15 or less	

- When you set Air Quality to ON, the screen saver displays the current air purity level details.
  - You can set the screen saver launch time in Option > User mode.
- Air purity level can only be displayed on indoor units supporting this function.

# **Heating Operation**

The heating functions of the Lennox product keep an enclosed space warm and comfortable.

#### Heat mode

Use the Heat mode to stay warm.



- While the air conditioner warms up, the fan may not operate for a while at the beginning to prevent cold wind.
- If the outdoor temperature is low and the humidity is high while the Heat mode is running, the heating
  performance of the air conditioner may decrease due to frost or ice that forms on the outdoor heat
  exchanger. When this condition happens, the air conditioner runs the Defrost function for about 5 to 12
  minutes to remove the frost and ice, both water and steam are released from the outdoor unit.
- While the Defrost function is running, the indoor unit provides no breeze to prevent cold wind.
- The operation time of the Defrost function varies depending on the amount of the frost and ice and the humidity.
- While the Defrost function is running, none of other functions will work, even if you select them on the remote controller.

# **Quick Smart Features**

There is a variety of useful functionality provided by the Lennox product.

#### Auto mode

Use the Auto mode when you want the air conditioner to automatically control the mode (Heat or Cool). The air conditioner will provide the most comfortable atmosphere that it can.

### NOTE

- You cannot change the fan speed.
- For indoor units that are set to allow fan speed change during Auto mode, it is possible to change the fan speed to Turbo, High, Medium or Low while in Auto mode.
- While the Cool mode is running, the air conditioner produces a strong cold air if there is a large
  difference between the set temperature and the current temperature. When the temperature difference
  becomes small, the air conditioner automatically changes the air flow direction and keeps the room at a
  comfortable temperature.

#### Fan mode

Use the Fan mode to run the air conditioner like a common fan. The air conditioner provides a natural breeze.

### NOTE

• If the air conditioner will not be used for an extended period of time, dry the air conditioner by running it in the Fan mode between 3 and 4 hours.

# **Quick Smart Features**

### **Quiet function**

Quiet function decreases the operation sound in the Auto, Cool, Dry, or Heat mode.

### NOTE

- You can control the set temperature, fan speed, and air flow direction.
- When you select Quiet in Wind-Free or Long Wind function, the previous function is cancelled.

### Sleep function

Sleep function automatically turns off the air conditioner after 6 hours without stopping the operation in the middle of the night.

# NOTE

- You can select this function only in the Cool and Heat modes.
- You can control the set temperature, fan speed, and air flow direction.
- When you select Sleep in Wind-Free or Long Wind function, the previous function is cancelled.

### **Long Wind function**

Use the Long Wind function to quickly deliver a long reaching air flow.

### NOTE

- You can select this function only in the Cool, Dry, and Fan modes.
- You cannot control the fan speed and air flow direction.
- When you select Long Wind in the Wind-Free, Quiet, or Sleep function, the previous function is cancelled.

# **Energy-Saving Operation**

The Lennox product provides functions that allow you to reduce electricity consumption.

### Schedule

Press the 🐯 button, press the  $\wedge$   $\vee$  or  $\langle$   $\rangle$  button to select **Schedule**, and then press the **OK** button. You can set each of **General Schedule**, **Setback Schedule**, **Override**, **Energy Saving Timer**, and **Good sleep**.

Туре		Description
	Timer	Turns the device on or off after a set time.  You can set the timer by 5 minute increments.
General Schedule	Weekly schedule	Schedules the operation of the device on a set day and at a set time.     You can schedule on the weekly basis. You can also set the values for day, time, operation on/off, scheduled device, and operation status (operation mode, set temperature, fan speed).
	Yearly schedule	Creates groups for the desired months for scheduling     You can schedule up to 8 groups on the yearly basis.
	Holiday	Allows you not to make use of the schedule on holidays.
Setbacl	k Schedule	Controls the indoor unit with 4 different operation patterns.     Each pattern sets the values for time, operation (OFF, Cool, Heat, Auto), and the set temperature.      General Schedule cannot be set if Setback Schedule is set.
Ov	erride	Allows you to run at a specific time the operation you set using Energy Saving Timer.
Energy Saving Timer		<ul> <li>When set to "Turn off"         <ul> <li>If the indoor unit is turned on, the indoor unit turns off after the set time elapses.</li> </ul> </li> <li>When set to "Eco Setting"         <ul> <li>If the current temperature continues to differ from the reference cooling or heating temperature set in Eco Setting, the indoor unit returns to the temperature set in Eco Setting after the set time elapses.</li> </ul> </li> <li>When set to "Setback Schedule"         <ul> <li>If the most recently operated Setback Schedule status differs from the indoor unit status, the indoor unit returns to that Setback Schedule status after the set time elapses.</li> </ul> </li> <li>* When "Timer Reset" is set to "Enable", the set time is re-counted if the indoor unit status changes.</li> <li>* When a period of time is set in Activation Time Setting, the indoor unit only operates for that period of time.</li> <li>Eco Setting: Allows you to set the reference cooling and heating temperatures when "Energy Saving Timer" is set to "Eco Setting".</li> </ul> <li>Activation Time Setting: Allows you to make the Energy Saving Timer</li>
		function operate only for the period of time you set.

# **Energy-Saving Operation**

Туре	Description			
Good sleep	<ul> <li>Operates until the set time, beginning from the time the Good sleep function starts operation.</li> <li>The Good sleep function can be set simultaneously along with General Schedule or Setback Schedule</li> </ul>			

### NOTE

• Weekly schedule and Yearly schedule can cover settings up to 49.

### Energy

Press the 5 button, press the  $\nearrow$  or  $\checkmark$  button to select **Energy**, and then press the **OK** button. You can see and set any of Energy Usage and Energy Setting.

Classification	Туре	Description
		Displays the Instantaneous Power, Weekly Energy Usage, Monthly Energy Usage, Yearly Energy Usage, Energy Usage over Last Year, and Operation time in graph format.
Energy Usage	-	NOTE
		<ul> <li>For accuracy of operation time, use the DMS time synchronization.</li> </ul>
		The weekly display follows the ISO 8601 standards.
	Set Outdoor Capacity	Controls the outdoor unit's operation capacity.
	Target Energy Consumption	Sets the target energy consumption.
Energy Setting	Target Operation Time	Sets the target operation time.
	Alarm Popup	Sets whether or not to generate an alarm when the target energy consumption is reached.
	Usage Data Initialization	Initialises the entire energy function.

# **Setting Options**

### How to set the Options

- 1 Press the 😭 button.
- 2 Press the  $\wedge \vee$  or  $\langle \rangle$  button to select Option, and then press the **OK** button.
- **3** See the following pages to select the desired menu.

Major	Step1	Step 2	Step 3	Step 4	Step 5	Description	Default
	UV Anti-Virus					ON/OFF	-
	Freeze Wash						-
	Button lock					ON/OFF	
	Filter reset	Indoor Ventilator					-
General	Error List						-
General	Indoor unit information						-
		Wi-Fi				ON/OFF	-
	Connections	Easy Connection Wi-Fi Reset				Connected/-	-
Blade selection		William				4-way cassette: Swing ON/Swing OFF 360 cassette: Spot/Mid/Wide	-
						ON/OFF	-
	Edga	Color				Warm/Natural/Cool	-
	Edge Lighting	Brightness				Smart/High/Low	-
Indoor	Lighting	Link to on/off state				ON/OFF	-
		Air Flow				ON/OFF	OFF
		Direction	Туре			Indirect/Direct	Indirect
	Motion	Power Saving				ON/OFF	-
	Detection	Motion Detection Comfort				ON/OFF	-
Option	User mode	Language				Differs depending on the language	First value for the language pack
		Daylight Savings Time	Daylight Savings Time			ON/OFF	ON
		Saviriys riffle	Unit			Day/Week	Week



• For details on using the UV Anti-Virus function, including the precautions, refer to the product user manual.

# **Setting Options**

Major	Step1	Step 2	Step 3	Step 4	Step 5	Description	Default		
	Daylight		-	Start Month		January to December	Mar		
				Start Week		1st to 4th, Final (final week)	2nd		
ļ			Week	End Month		January to December	Nov		
		Davlight		End Week		1st to 4th, Final (final week)	1st		
j		Savings Time		Start Month		January to December	Mar		
				Start Day		1~31	22		
			Day	End Month		January to December	Sep		
				End Day		1~31	22		
			Speaker			Voice/Tone/Mute	-		
		Sounds	Volume			Mute/Minimum/Normal/ Maximum	-		
			All lock			ON/OFF	OFF		
				Operation Lock		ON/OFF	OFF		
					All mode Lock	ON/OFF	OFF		
					Auto mode Lock	ON/OFF	OFF		
				Operation	Cool mode Lock	ON/OFF	OFF		
		Lock User mode	Partial Lock . Fuction	mode Lock	Dry mode Lock	ON/OFF	OFF		
					Heat mode Lock Fan mode Lock	ON/OFF ON/OFF	OFF OFF		
				Temperature Lock	raiiiiioue Lock	ON/OFF	OFF		
Option	User mode			Fan speed Lock		ON/OFF	OFF		
					Wind-Free Lock	ON/OFF	OFF		
					Long wind Lock	ON/OFF	OFF		
					Quiet Lock	ON/OFF	OFF		
					Sleep Lock	ON/OFF	OFF		
				Schedule Lock		ON/OFF	OFF		
					LED			ON/OFF	ON
				Button Mute			ON/OFF	OFF	
			Wireless remote controller			ON/OFF	OFF		
			200.000	Date		2000 to 2099/1 to 12/1 to 31	2018.01.01.		
		Wired remote controller	Current Time	Time		12-Hour/24-hour 12-hour format : 1 to 12, 24-hour format: 0 to 23, minutes: 00 to 59	12:00 PM		
			Reset remote controller			-	-		
				Brightness		10 to 100%	100%		
			Display setting	Coroon caver	Timer	10 to 60 seconds	30 sec		
				Screen saver	Brightness	0, 10, 30, 50, 70%	30%		

Major	Step1	Step 2	Step 3	Step 4	Step 5	Description	Default
Option	User mode	Smart Reset					-
		Reset All User modes					-
		Auto changeover	Use of wired remote controller DSP			ON/OFF	ON
			Cooling Set temp./Heating Set temp.			18°C to 30°C (Set temp range for auto operation of the indoor unit)	Indoor unit status value
			Primary			0.5°C to 2°C(or1°F to 4°F)	Indoor unit status value
			Secondary			0.5°C to 2°C(or1°F to 4°F)	Indoor unit status value
		Temperature limits	LowerLimit			Celsius(°C): 8 to 30°C Fahrenheit(°F): 47 to 86°F	8°C
			UpperLimit			Celsius(°C): 8 to 30°C Fahrenheit(°F): 47 to 86°F	30°C
		Easy tuning				-2 to +2	0
		Indoor lighting				ON/OFF	Indoor unit status value
		Clean				ON/OFF	Indoor unit status value
		Ampere Control +	Manual			ON/OFF	-
						Level:1to9	-
			Auto			ON/OFF	-
						Level:1to9	-
			Pair			Paired/Unpaired	-

### NOTE

- When two programmable wired controllers are connected, the brightness can be set within 10 to 50%.
- If the screen is on stand by for an hour, in order to protect the screen it converts to screen protection mode for a minute before returning to the normal screen.

If the buttons are pressed after the screen protection is displayed it converts to the stand by screen right away.

### **Current Time Setting (Example)**

- 1 Press the 🔂 button.
- 2 Press the  $\wedge \vee$  or  $\langle \rangle$  button to select **Option**, and then press the **OK** button.
- **3** Press the ∧ ∨ or ⟨⟩ button to select **User mode**, and then press the **OK** button.
- **4** Press the ∧ ∨ or ⟨ ) button to select **Wired remote controller**, and then press the **OK** button.
- 5 Press the  $\wedge$   $\vee$  or  $\langle$   $\rangle$  button to select **Current Time**, and then press the **OK** button.
- 6 Press the ∧ ∨ or ⟨ ⟩ button to select **Time**, and then press the **OK** button.
- 7 Press the  $\wedge$   $\vee$  or  $\langle$   $\rangle$  button to select Time format, Hour, Minute, and AM/PM, and then press the OK button.

# **Troubleshooting**

### Refrigerant leak detection

If a refrigerant leak is detected, turn off the alarm and consult a dealer or service centre.

### Stopping the refrigerant leak alarm

If the alarm sounds due to a refrigerant leak, it is possible to stop the alarm sound 4 minutes after the alarm starts. Press the **OK** button for 3 seconds to stop the alarm.



Indoor address: 200001

Error code: E696

Press the 'OK' button for 3 seconds to dismiss the alert

# Memo

ppendix

