

Disclaimer

- (1) This exhaust fan product is for general ventilating use ONLY. Do not use it to exhaust hazardous gas(es).
- (2) This exhaust fan product should be used in the manner designed by the manufacturer. This product has one speed and using any speed control device may impair its performance and will void its warranty.

Warnings

Follow these safety measures before installation.

- (1) A qualified electrician is recommended for the installation.
- (2) Disconnect electricity from the breaker panel before installation. Watch out the wires, cables, and pipes around the work area. Avoid cutting those wires or pipes while working on the walls or the ceilings.
- (3) To avoid negative pressure in a closed space, make sure the space has enough intake vents like vented soffits.
- (4) For the space which has a fuel-burning equipment(s), please make sure enough replacement air is provided through intake vents. Inadequate replacement air may cause malfunction of the fuel-burning equipment or even carbon monoxide poisoning. Consult the fuel-burning equipment’s manufacturer and other related safety standards.
- (5) Before servicing or cleaning this unit, be sure to disconnect the electricity first.

Product specifications

Model	LG-1600	LG-1650
Airflow	1300 CFM	1650 CFM
Rated Current/W	2.7A / 220W	1.45A / 140W
Temperature range	-50 to 110 °C (-58 to 230 °F)	
Motor Voltage	120V 60Hz	
Control	Thermostat	
Blades	4	
Output type /Capacity	Direct output (Max 10A)	
Size	15"x 15"x 7.5"	

Installation

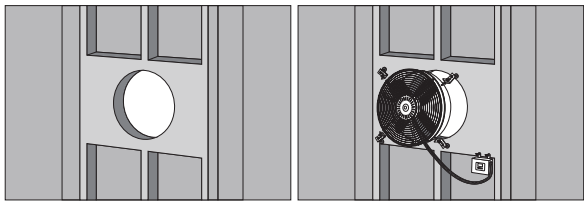
Recommend testing the product before installation.

Part 1 Install the fan on the gable

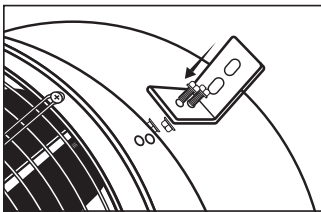
Check the surroundings of the gable vent to determine if the gable fan can be securely installed. For better ventilation efficiency, no gap between the gable vent and the fan shroud is expected. Measure if your existing vent/louver fits the gable fan.

Situation 1. The gable vent fits the vent fan

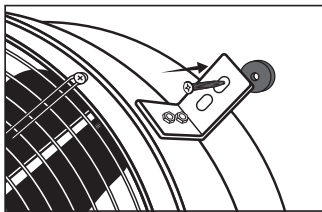
Install the four L shaped brackets on the fan shroud. Then secure the other ends of the L shape brackets on the walls/frames



Situation 1



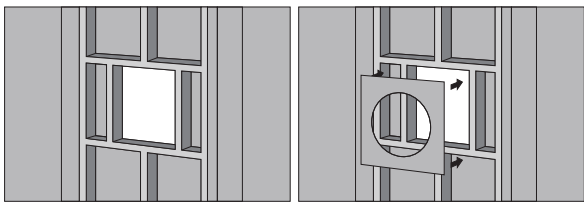
Install the four L shaped bracket on the fan shroud.



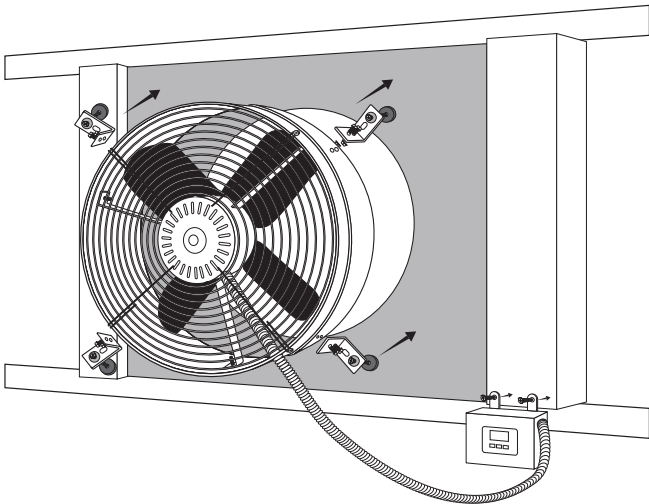
Secure all parts to reduce/ remove the vibration noise.

Situation 2. The gable vent is bigger than the fan shroud

A frame and/or panel (cut a 15" hole in the center) needs to be added around the gable vent.



Situation 2



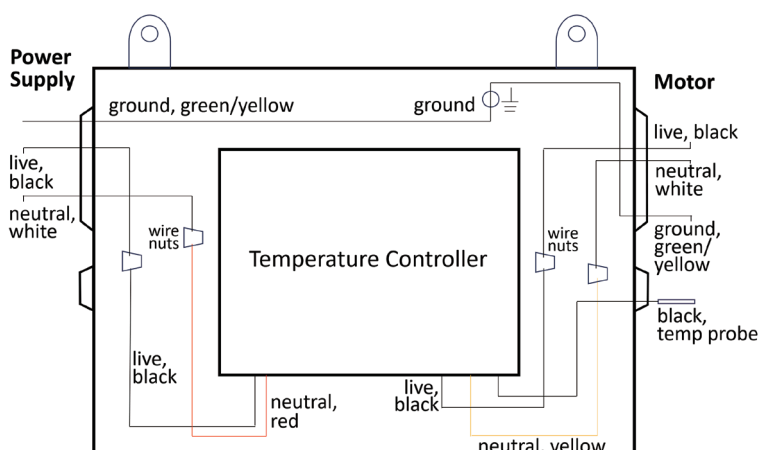
 x 10 For securing the bracket to the wall	 x 8 For securing the bracket to the fan shroud
 x 2 For securing the thermostat box.	 x 4 To be installed under the wall screws

Part 2 Install thermostat

For some models, the products come with cable and plug. Their thermostats are prewired. Skip this part and directly insert its plug into your outlet.

For the products without plugs, refer to the diagram on the right for wiring.

Fix the box on the edge of the frame/panels with the two screws. It is recommended to leave the main box in the air as depicted in the image above.



Operation

After the vent fan is connected to the power source, it is controlled by the thermostat.

Set: toggle between setting and its value

Up and down signs: when the screen shows the setting, up and down toggle among P0, P1, P2, and P3. When the screen shows value, up and down buttons adjust the value. Press set will accept the value.

After no action for 3 seconds, the screen will show the detected room temperature.

Definitions of the settings:

P0: Startup temperature.

The motor's start point when the ambient temperature rises.

P1: Stop temperature.

The motor's stop point when the ambient temperature cools. **P1 must be lower than P0.**

P2: Temperature correction

P3: Startup delay

Example:

(1) press SET and choose P0

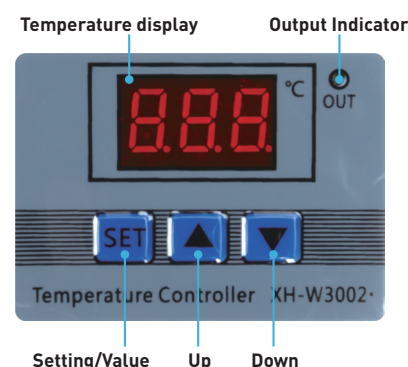
(2) When the screen shows P0, press SET again and it shows the current value of P0. Adjust the value to 30.0 °C (86 °F).

(3) Press SET to accept the value and the screen goes back to the setting P0. Toggle up or down to find P1.

(4) Press SET again to show the current value of P1. Adjust the P1 value to 26 °C (79 °F). Press SET to accept it.

The setting is complete. After a few seconds, the screen will show the detected ambient temperature. In this setting, the fan will start when the temperature rises to 30 °C (86 °F). And it will stay running above 30 °C (86 °F). When the temperature cools down to 26 °C (79 °F), the fan will stop. And it will stay idle below 26 °C (79 °F).

P1 must be lower than P0.



Frequent questions

Troubleshooting

Fan not starting?

-Is the temperature already above P0? → Make sure $P1 < P0 < \text{ambient temperature}$.

Fan makes unusual noises

Loose screws or mounting:

-Vibrations can cause rattling.

Fix: Disconnect the power, tighten all screws and brackets.

- Dust/debris in motor or blades:

Fix: Disconnect the power, clean the fan blades and motor housing.

- Worn-out bearings (after long use):

A grinding noise may indicate motor wear.

Fix: Disconnect the power, lubricate or replace the motor if necessary.

About us

LANGY delivers global energy-saving solutions specializing in solar & LED lighting systems and solar/AC attic ventilation. We serve clients across 30+ countries with guaranteed 24-hour response and lifetime complimentary technical support.

Dedicated Support: support@langyenergy.com