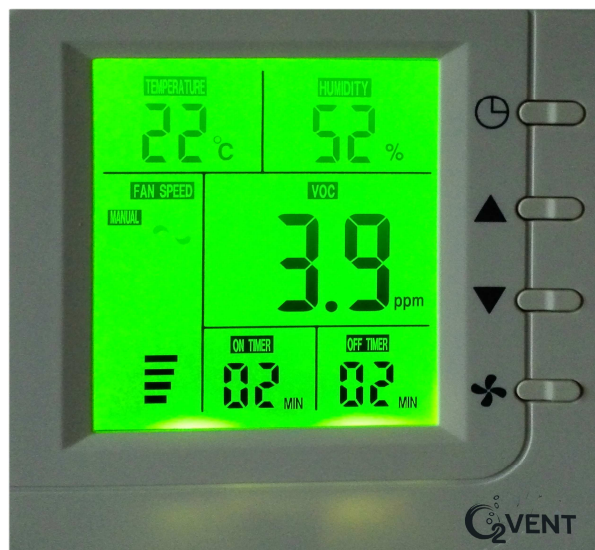




Fresh Air Ventilation System Intelligent Controller

# User Manual



**For Healthier and Happier Way of Living**

Please keep this important manual in a safe place. It is the owner's responsibility to ensure that regular maintenance is carried out on this system.

[www.o2vent.nz](http://www.o2vent.nz)

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# Introduce

With a LED screen this controller will detect current indoor air temperature, humidity, VOC concentration. Accord to difference between current value and default value, controller will produce appropriate output signal to control the fan running at high, middle and low speed or stop. High efficiency inline duct fan will bring filtered purer and fresher outdoor air to indoor space and push the stale air out to create a happier healthier indoor environment.

## Specifications of Controller

Items	Value	Items	Value
Dimensions	LXWLXD = 85x85x40mm	Warm up Time	2 min
Distance of fixed screw	60mm	Response Time	≤10 Seconds
Power Supply	AC 220V ,50HZ	Recovery Time	≤30S
Standby Power	≤ 1.0w	Work Temp.	- 10℃ ~ 50℃
Load	≤200w	Working Humidity	5% RH~90%RH
Output	Three Fan Speeds	Storage Temp.	- 10℃ ~ 60℃
Temp. Display	0℃ ~ 50℃	Storage Humidity	≤60%RH
VOC Display	0.3ppm ~ 25.0ppm	Humidity display	25%RH—90%RH

## Buttons & Display



ON / OFF/Mode Change



Upward Arrow



Downward Arrow



Setting

The LED display screen shows the following information:



- Indoor Air Temp:** 22.0 °C
- Indoor Air Humidity:** 52.0 %
- Indoor Air VOC Concentration:** 3.9 ppm
- Fan Speed:** MANUAL (Low speed)
- Operating Modes:** Auto, Manual, Timer
- Fan Speed Display:** Three horizontal bars representing fan speed
- ON TIMER:** 02 MIN
- OFF TIMER:** 02 MIN

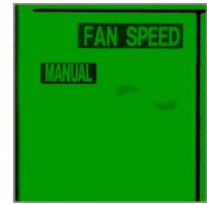
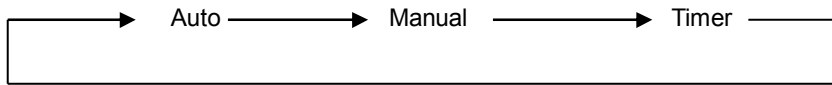
Labels with arrows point to the corresponding data on the display:






- Indoor Air Temp
- Indoor Air VOC Concentration
- Operating Modes: Auto, Manual, Timer
- Fan Speed Display
- Indoor air Humidity
- Timer ON/OFF

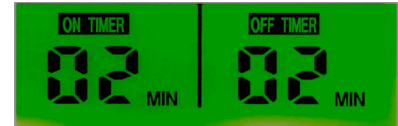
# Operation

## Selecting Operation Modes

1. Press  to start or stop operating.
2. Press  to select operation mode. Each pressing change mode in the following order:











3. Press  to stop operating. The same setting is selected the next time by simply pressing .
4. **Automatically Operating Mode**  
The ventilator will automatically run at different speed (high, middle, low) or stop accord to difference between default value and current value of indoor air temperature, humidity, VOC concentration.
5. **Manually Operating Mode**  
Press  to start or stop operating, you can adjust fan speed by pressing  or .
6. **Timer Operating Mode**  
The ventilator will run or stop accord to default time schedule and fan speed.  
You can preset four timers for ON or OFF.



## Setting default Indoor Air Temperature, Humidity, VOC Concentration

Default parameters can be set only under automatically operating mode, by pressing  to change items, the flashing item can be changed value.

1. **VOC Concentration Setting:**  
When VOC figure flash, change default value by pressing  or .
2. **Temperature Setting:**  
When TEMPERATURE figure flash, by pressing  or  to increase or decrease value.
3. **Humidity Setting:**  
When HUMIDITY figure flash, by pressing  or  to increase or decrease value.
4. **Timer Setting**  
When TIMER ON or TIMER OFF flash, by pressing  or  to increase or decrease duration of ON or OFF

**Indoor Air Quality & Fan Speed Table** (Recommended default value just as reference, )

unit		VOC	Temperature °C	Humidity %RH
The figure which how higher that Current Value than setting value				
Fan Speed	High	≥4.0ppm	≥4°C	≥10% RH
	Middle	2.0~3.9ppm	2~4°C	5%~9% RH
	Low	0~1.9ppm	0~2°C	0~5% RH
	Stop	Low than default value		
The background color will be changed automatically according to different VOC value. VOC>10ppm, Green color; VOC<15ppm, Yellow color; VOC>15ppm, Red Color				
Recommend Setting Value		6.0-8.0ppm	18-26 °C	50%-80%

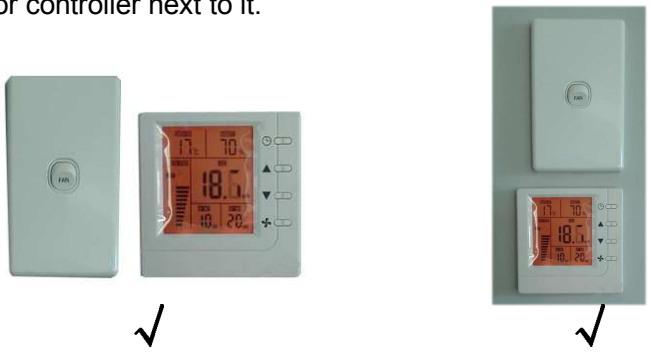
## Controller Installation

**ATTENTION INSTALLER:** To prevent serious injury from electrical shock this product must be installed by a qualified HVAC contractor.

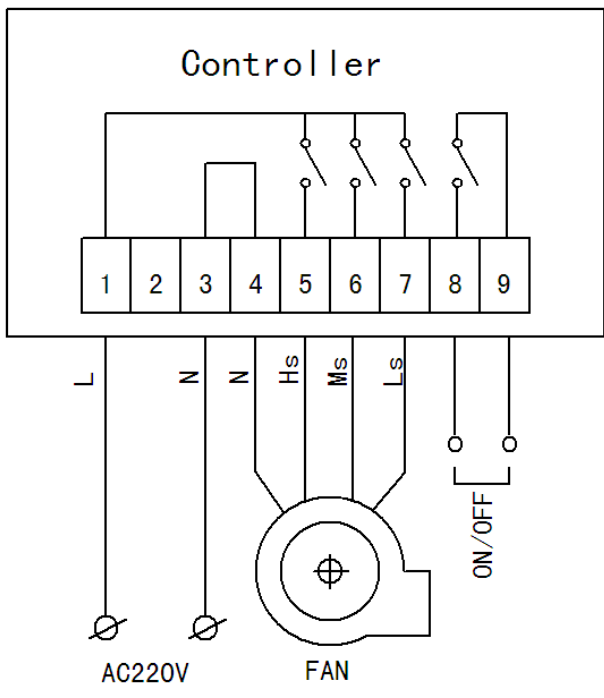
O2vent controller is Mounting Controller, it will detect current Temperature, Humidity, VOC Concentration of Indoor AIR, so it should be installed properly. By the side, it is used for indoor air only.

### 1. Position:

- ◆ Mounting installation in lounge or hall where the fresh air will be introduced in. It is not recommended to install the controller inside of wardrobe, cooking area, storage, roof space, garage or bedrooms.
- ◆ The heights from floor is recommended at least same size as other mounting switches.
- ◆ A power switch should be installed for controller next to it.



### 2. Wiring Diagram

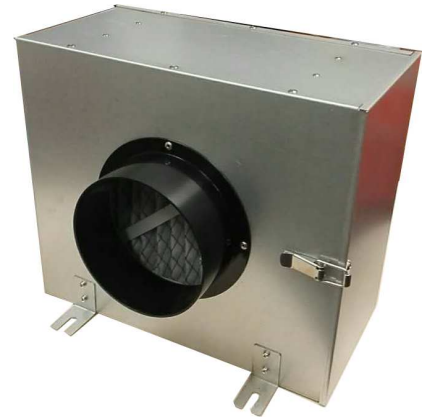


# Maintenance

## Filter Replacement

O2VENT HEPA Air filter can remove solid particulates such as dust, pollen, mold, and bacteria from the air before entering your home, also it removes odors and gaseous pollutants such as volatile organic compounds or ozone. Usually it needs to be replaced once a year. You can change by yourself or contact us to organize replacement for you. If you would like to replace by yourself, please be sure you learn about all safety requirements for climbing into roof space and will be responsible for your safety.

1. Tools and materials: Dry Cloth Cleaner, Ladder, Heat Light and prop safe ware, New Filter.
2. Turn the power off to the ventilation system.
3. Climbing into roof space.
4. Opening the Filter Box and taking the used filter out, cleaning the Filter Box and put the new filter in.
5. Closing the Filter Box and lock it.
6. Turn the power on.



### Caution:

**In summer season, the temperature of roof space is very high, so you should be carefully to choose the right time to do this job.**

- If you would like to ask us to change the filter for you, call **0800 628 368** or send email to [service@pacifichac.nz](mailto:service@pacifichac.nz)
- We recommend changing the air filter(s) of your O2VENT system approximately 6 to 12 months.
- Our affordable G4 Filter is available for you.