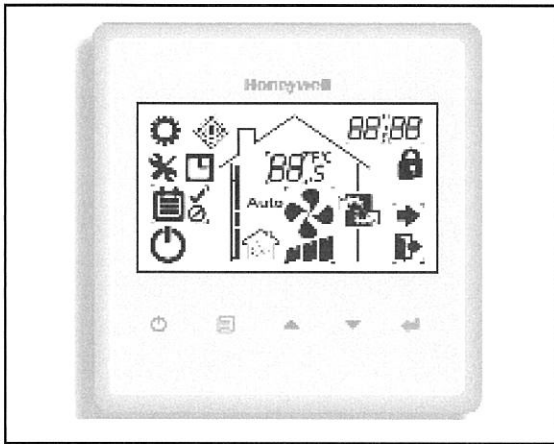


## VEN8675 SERIES

## DIGITAL VENTILATOR CONTROL INDOOR AIR QUALITY CONTROL

### PRODUCT SPECIFICATION SHEET



### APPLICATION

The VEC8675 series digital controller is designed to provide complete control for different Ventilation applications. The controller incorporates all the inputs and outputs to work in unison to create intelligent ventilation ensuring that this advanced applications specific controller meets all the demands for energy efficient and flexible air quality control.

The basic application of this product including:

Manual or automatic 3-speed fan control

By-pass control

Indoor air quality monitoring

Filter replacement warning

Stand by and energy saving mode

### FEATURES

#### Modern Design

- Large LCD display with white backlight
- Super slim, 14mm thickness
- Same size as standard wall box in China
- Sensitive touch button
- High luminance white Backlit

#### IAQ real time monitor

- Support CO2 and TVOC sensor
- Indoor air quality display timely
- Automatically air quality control according to the

#### Sensor input

- Programmable control
- Filter replacement warning

#### One-key bypass\*

- Convenience and energy saving

#### One push operation

- One touch for mode switch
- Keypad lock function

#### Temp. Display

- Additional temperature display

\*Only implement on special model or need purchase separately

### SPECIFICATIONS

Table 1. Model Selection Guide

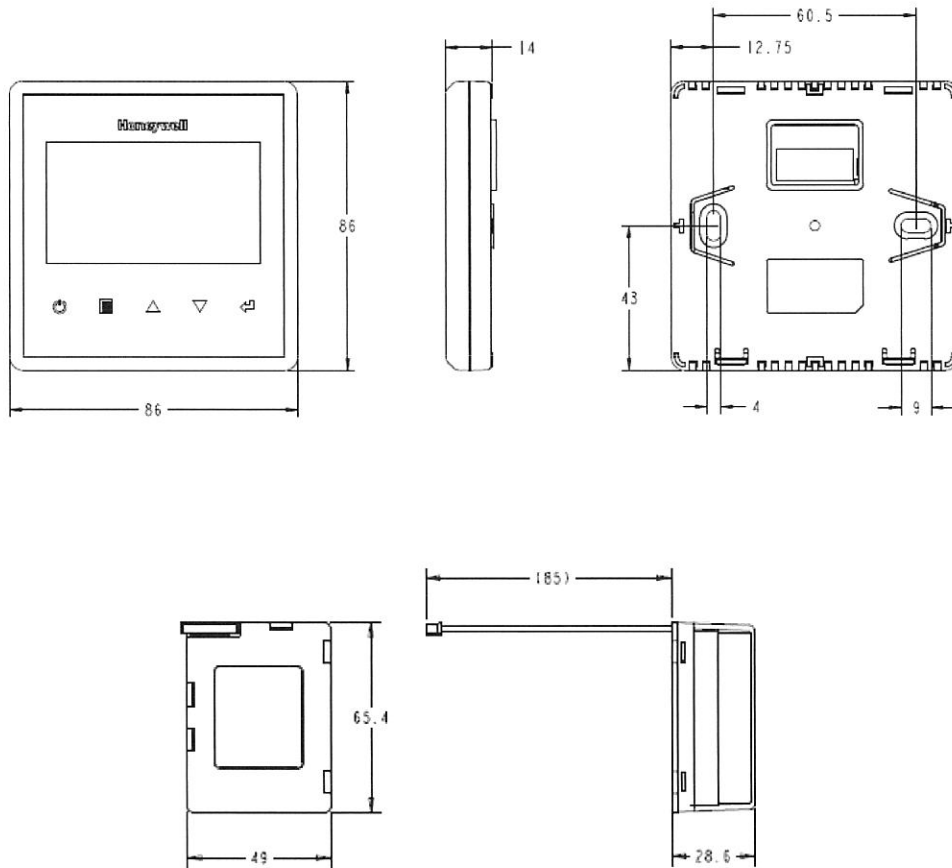
Item	Backlight	Operation voltage (VAC)	Programmable	By Pass	IAQ sensor support
VEC8675WP10	White	220/50Hz	Y	Y	N
VEC8675WP20	White	220/50Hz	Y	Y	Y

**VEC8675 VEN CONTROLLER**

Temp. Display Range : 0...37°C or 32...99°F  
 Display and setting unit : 0.5 °C or 1°F  
 Differential : 1 °C or 2 °F  
 Sensor : CO2 or TVOC sensors  
 : 0-10V DC Input  
 Fan Control : 3 Speeds ON/OFF control  
 Electrical ratings of loads : 4(2) A, 220 V~, 400Wmax, 10A inrush  
 Typical loads are fan motor  
 Electrical life : Greater than 10,000 cycles at 220 VAC

Mounting : Mounts directly onto wall-box – a standard 86mm wall box. Mounting screws are provided  
 Wiring : 7-10 lead wire per unit  
 Wiring length : Max.100m (sum of all thermostat wiring)  
 Enclosure : 2-piece housing (front cover, rear cover)  
 Dimensions : 86 x 86 x 23mm(W x H x D).  
 Environmental requirements : Operating temperature range: -17°C to 49°C. (0°F to 120°F).  
 : Shipping temperature range will be: -30°F to 150°F.  
 Humidity range 5 to 90% RH, non-condensing at 26 °C

**DIMENSIONS**



**Fig. 1 Dimensions (in mm)**

## INSTALLATION

### Location

The VEN8675 is the controller for Ventilation system, provides the temperature measurement and display function. It should be located about 1.5m above the floor in a position with good air circulation at room temperature. Do not mount it where it could be affected by:

- Draughts or dead spots behind doors or in corners
- Hot or cold air from ducts
- Radiant heat from the sun or appliances
- Unheated (uncooled) area such as an outside wall behind the thermostat
- Concealed pipes or chimneys

### Wiring

The VEC8675 can be directly mounted on the standard 86mm wall box. The mounting screws are supplied.

Loosen the screw terminals, insert wires into terminal block, and then retighten screws, push the power box into the wall box.

### Back Cover Assembly

Place back cover on the wall box, fast the mounting screws. Connect the cable of power box with front board, and then close the front cover with back cover.

- ① Connect the wire with power box
- ② Push the power box back into wall box
- ③ Mount the back cover on the wall box
- ④ Carefully connect the cable with front cover and close those two cases

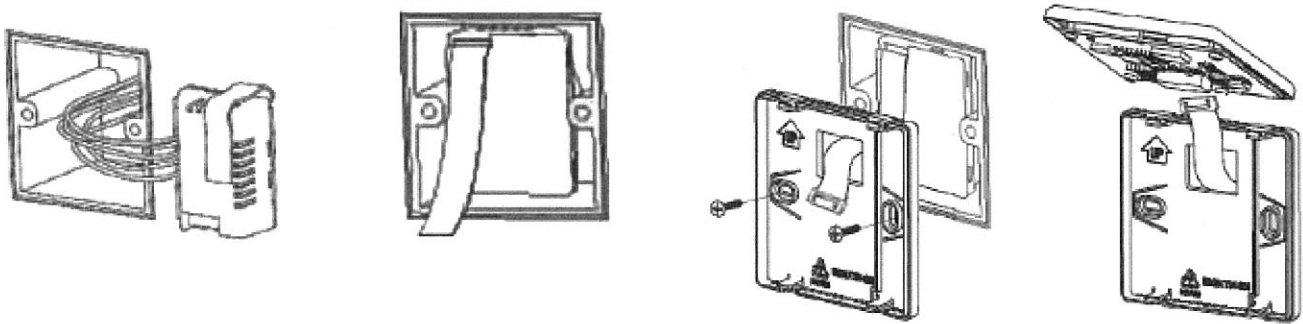
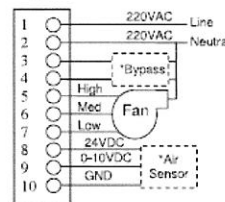


Fig. 2 Mounting

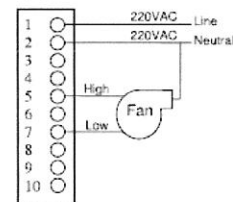
## WIRING DIAGRAM

1	L	220VAC Line
2	N	220VAC Neutral
3	BP	OFF Bypass OFF
4		ON Bypass ON
5	FH	High speed fan relay
6	FM	Medium speed fan relay
7	FL	Low speed fan relay
8	24VDC	24VDC power supply for Air Sensor
9	0-10VDC	Air Sensor Signal
10	GND	24VDC Ground

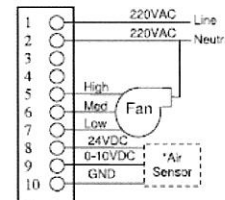
### Application 1: ERV



### Application 2: EV



### Application 3: MV



\*Air sensor only available for VEC8675WP20.



Fig. 3 wiring diagram

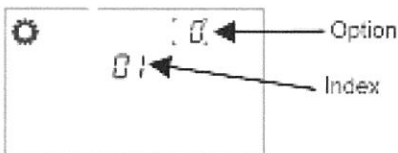
## Configuration






### Installer Setup

Follow the procedure below to configure the ERV controller to match the installed ERV system, and customize feature operation as desired.

After confirm current clock of power up can enter home screen.

Touch and hold both of  and  for 3 seconds in home screen to enter (or exit) setup mode.





Tap  to change index and tap  or  to change the option value in ISU mode. Touch and hold both of  and  for 3 seconds to exit and save settings.

### Installer Test Table (IT)

Index	Description	Possible Options
10	Bypass Control Test	0 OFF 1 Bypass ON
20	Read Voltage from Air Sensor	0.0V - 10.5V
40	Fan Control Test	0 OFF 1 Fan Low ON 2 Fan Med ON 3 Fan High ON
70	Software Information	71 Software Major Revision 72 Software Minor Revision 73 Production Identification Code

Index	Description	Possible Options
1	System Type	0 ERV, without sensor (Default) (3 speed, bypass or not) 1 ERV, with sensor (3 speed, bypass or not) 2 EV (2 speed no middle speed, No bypass, No sensor) 3 MV, without sensor (3 speed, No bypass) 4 MV, with sensor (3 speed, No bypass)
2	Bypass	0 Disabled(Default) 1 Enabled
3	Filter warning	0 Disabled 1 Enabled(Default)
4	Filter warning period	1 One Month 2 Two Month 3 Three Month(Default) 4 Four Month

5	Fan Control Type	1 Man Fan: Low-Med-High 2 Auto Fan: Low-Med-High 3 Auto Fan: Low-High 4 Auto Fan: Low-Med 5 Auto Fan: Med-High 6 Auto Fan: Low 7 Auto Fan: Med 8 Auto Fan: High
6	Auto Fan speed limits	Fan low speed limits 1.5-9V (Default 3.0VDC)
7		Fan med speed limits 1.5-9V (Default 4.5VDC)
8		Fan high speed limits 1.5-9V (Default 6.0VDC)
9	Temperature Scale	0 Degrees Fahrenheit (°F) 1 Degrees Celsius (°C) (Default)
10	Display Temperature Adjustment	Range is -2°C to 2°C(-4°F~4°F) Default is 0.
11	Keypad Lock out	0 All keys are available (Default) 1  are locked 2 All buttons are locked except  3 All buttons are locked

**Honeywell**

Environmental & Combustion Controls (Tian Jin) Co. Ltd.

No. 158, Nan Hai Road, TEDA, TianJin, China PRC

Tel. 86-22-6628-7000

Fax. 86-22-2532-9935

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