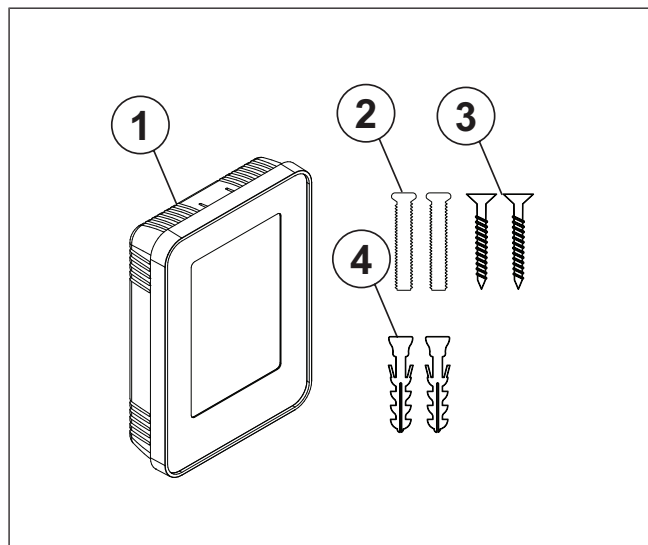


Installation/Operation Manual

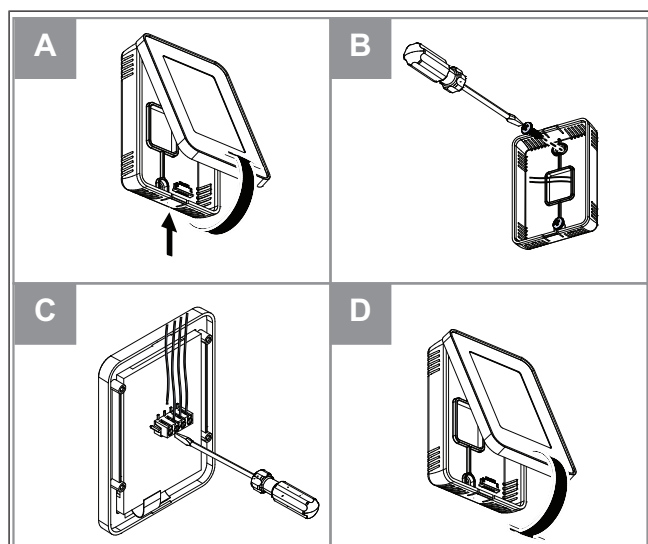
ECO-Touch[®] AUTO IAQ, #414727

Product Overview

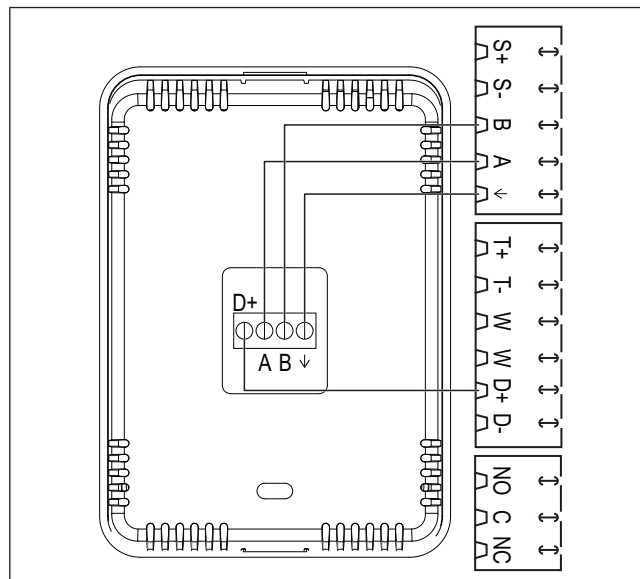


1. ECO-Touch[®] AUTO IAQ, #414727
2. Mounting screws
 - a. Quantity 2
3. Wood screws
 - a. Quantity 2
4. Wall anchors
 - a. Quantity 2

To Install the Product



To Wire the Product



To do before the commissioning

- Make sure that the installation and electrical connection are correctly done.
- Visually examine the product and accessories for damage.
- Make sure that there are no blockages in the air inlet and the air outlet.
- Make sure that installation material and unwanted objects are removed from the product and the ducts.
- Make sure that ducts are sufficiently insulated and installed according to local rules and regulations.
- Make sure that any duct work accessories (if any) such as dampers, silencers, or other devices are correctly installed.
- Make sure that the duct system is correctly connected to the product.

To Balance the Airflow



Caution

It is necessary for this procedure to be done by a qualified professional.

Call a qualified professional if you believe there is an issue with your product.

Note:

Use a Fantech programmable touch screen wall control and a manometer to balance the airflow.

Note:

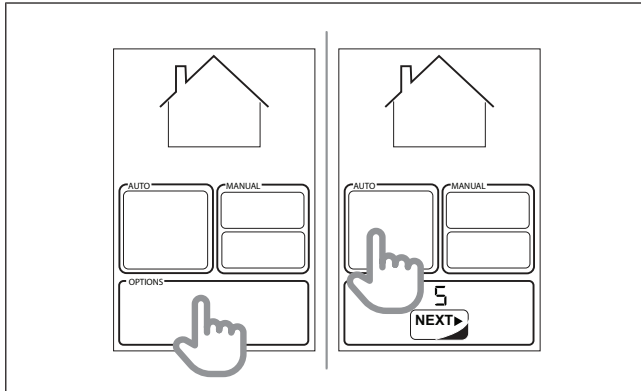
Before you start this procedure, refer to the balancing label on the ventilation product.

To Balance the Exhaust Fan

Note:

The “up” or “down” button on the control adjusts the fan speed by 1%.

- 1 Measure the airflow on the stale air side of the product.
- 2 To enter balancing mode, get to the options menu.
- 3 When the 5-second opening sequence starts, press and hold on the “ECO” area for 5 seconds to go into basic balancing mode.

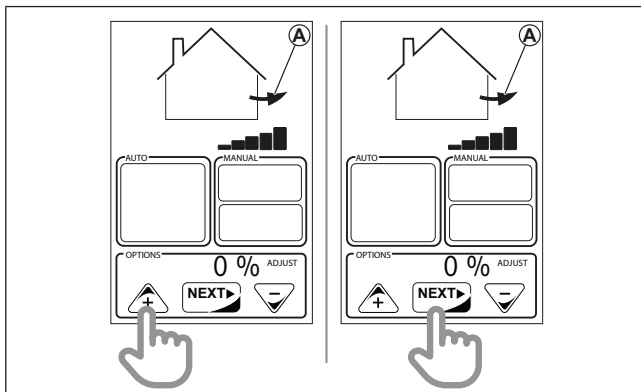


- 4 Use the “up” and/or “down” buttons on the control to get to the required fan speed.

Note:

The supply and exhaust fans are adjusted on high (MAX) speed only, and the offsets are applied in relation to the medium and low (MIN) speed automatically.

- 5 When the necessary fan speed is met, press the “next” button.

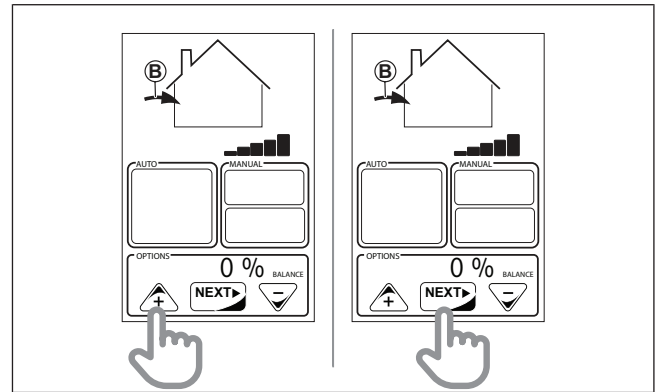


To Balance the Supply Fan

Note:

The “up” or “down” button on the control adjusts the fan speed by 1%.

- 1 Measure the airflow on the fresh air side of the product.
- 2 Use the “up” and/or “down” buttons on the control to get to the required fan speed.
- 3 When the necessary fan speed is met, press the “next” button.



A. Exhaust mode

B. Supply mode

The product is now ready for service.

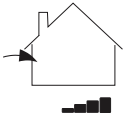
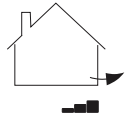
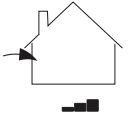
To Get to the Advanced Balancing Menu

- 1 To enter balancing mode, get to the options menu.
- 2 When the 5-second opening sequence starts, press and hold on the “house” icon for 5 seconds to go into advanced balancing mode.

Note:

The advanced balancing mode allows you to adjust all speeds independently for both supply and exhaust.

There are 6 total adjustments to make. They include:

Steps	Image	Speed Value	Supply/Exhaust
Stage 1		MAX (High)	Exhaust
		MAX (High)	Supply
Stage 2		Medium	Exhaust
		Medium	Supply
Stage 3		MIN (Low)	Exhaust
		MIN (Low)	Supply

Sequence of Operations

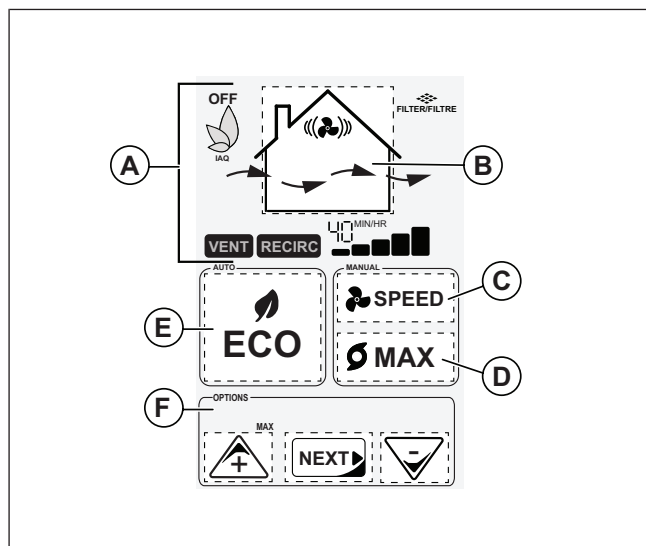


Fig. 1 Main Screen

- A. Operation Indicators Section Touch Area
- B. Manual Ventilation Mode Selection Touch Area
- C. Manual Fan Speed Selection Touch Area
- D. Max Mode Touch Area (20 to 40 to 60 minute timer override)
- E. Automatic Mode Touch Area
- F. Options and Preferences Touch Area

Operation Indicators			
VENT	RECIRC	System Stand-by	IAQ Level (ECO Mode Only)
Air Exchange Mode	Recirculation Mode		
Fan Speed Level and Timer	Fan Operation	Icon Operation (Active)	Icon Operation (Inactive)

Use and Operation

For manual operation, choose :

- Ventilation Mode (B)
- Fan Speed (C, D)

You can select these manually or you can allow the controller to choose (E).

- 1 To use the controller, double-tap one of the touch areas (refer to the main screen diagram) to unlock the controller from sleep mode. The touchscreen backlight will illuminate and respond to user inputs.

If no inputs are made after 25 seconds, the controller will return to sleep mode.

- 2 To select a specialized mode or speed, press the related touch area (refer to the main screen diagram).

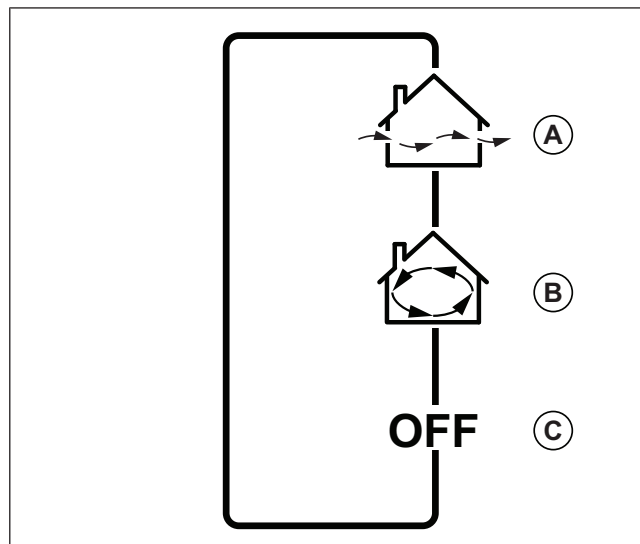


Fig. 2 Ventilation Mode Selection

- A. Indoor air exchanges with outdoor air.
- B. Indoor air recirculates within the space.
- C. Stand-by

The ventilation system will stay in this operating state unless a timer switch (installed separately) is activated.

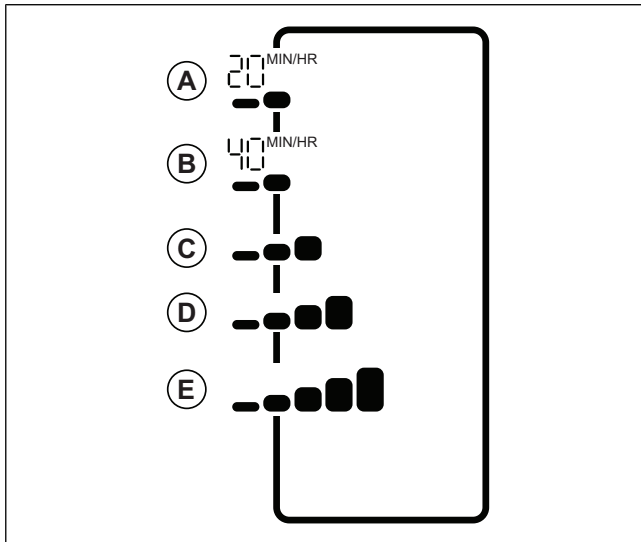


Fig. 3 Exchange Air Fan Speed Selection

- A. Low Speed, 20 min/hr¹
- B. Low Speed, 40 min/hr¹
- C. Low Speed
- D. Medium Speed
- E. High Speed

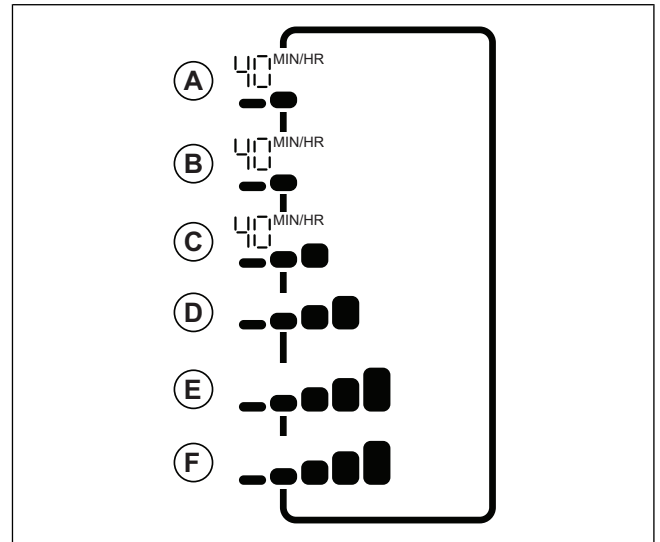


Fig. 4 Recirculation Fan Speed Selection

Recirculation Mode Settings

- A. Low Speed, 40 min/hr²
- B. Medium Speed, 40 min/hr²
- C. High Speed, 40 min/hr
- D. Low Speed
- E. Medium Speed
- F. High Speed

Automatic Operation (ECO Mode)

When the ECO mode touch area (E) is pressed, the connected ventilation system will operate automatically.

It will optimize performance based on the indoor air quality (IAQ) sensor, the indoor relative humidity (RH) sensor, the outdoor conditions, and user preferences.

1. Refer to the [Options and Preferences](#) menu to customize ECO mode.

Max Speed Mode

When the MAX mode touch area (D) is pressed, the connected ventilation system will operate and exchange indoor air with outdoor air at the highest speed for 20/40/60 minutes.

1. Once activated, to get to the next time period, press the MAX mode touch area.

You can repeat this cycle as necessary.

1. The controller activates the ventilation system for 20 or 40 minutes. Then, the system operates in stand-by mode for the rest of the hour.
2. When the "VENT" icon flashes and the "RECIRC" icon displays, the ventilation system will exchange air for 20 minutes and then recirculates air for 40 minutes at the selected speed.

Options and Preferences

Table 1 Options and Preferences

Parameters	Option	Possible Values	Default Values
	Night Performance¹ Ventilation mode and fan speed during the night.	Ventilation Mode/Fan Speed Level	Air Exchange Mode and Low Speed
	Day Performance¹ Ventilation mode and fan speed during the day.	Ventilation Mode/Fan Speed Level	Air Exchange Mode and Low Speed
	Relative Humidity Set the indoor relative humidity you want the ventilation system to stay below.	30% to 80%	45%
 FILTER/FILTRE	Maintenance Reset Refer to section "Maintenance Reminder".	Reset Timer and Icon Display	N/A
	Paired Timers Shows number of paired wireless timers. Timers can be connected on this screen.	0 to 8	0
	Unpair Timers Disconnect timers from this screen. 1. Hold NEXT for 5 seconds to disconnect all wireless timers from this controller.	N/A	N/A

1. If you want to use the night/day functionality, make sure this product is installed in a position where it can sense sunlight.

Options Menu

You can use the options menu to customize the operation of your controller.

1. To enter the menu, press anywhere in the bottom part of the options screen touch area.

The icon NEXT will show with a 5-second countdown timer.

2. To change the available options, press the NEXT button before the timer reaches zero.

Once in the options menu, you can change all options shown within [Table 1 Options and Preferences](#).

3. To change the values of each option, press the UP or DOWN arrows.
4. To navigate to the next available option, press the NEXT button.
5. To exit the options menu, and return to normal operation, press the NEXT button to advance to the original 5-second timer.

Once the timer expires, the controller will operate normally with your new preferences.

After 1 minute, the controller will automatically exit the options menu.

About the IAQ Sensor

This control has a IAQ sensor that measures the Total Volatile Organic Compounds (TVOCs) in the air in 10-minute intervals.

The sensor calculates the average TVOCs within each 10-minute period. Based on a score of 0–500 (with 0 being the best air quality and 500 being the worst), the IAQ sensor will measure the indoor, airborne TVOCs around the control and will increase the ventilation rate according to the average score from the previous 10-minute period.

The IAQ icon will change in accordance with the ventilation rate (refer to table [Table 2 IAQ Leaf Stages](#)).

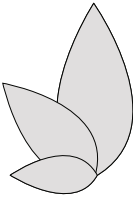
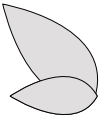
After commissioning, and when in ECO mode, the control will show an “IAQ” icon with or without leaves.

The IAQ sensor will never decrease the ventilation rate if a higher ventilation rate is selected by the relative humidity (RH) algorithm.

Values are not scientific and are only an index for relative adjustments. If you would like to adjust the sensitivity of sensor, refer to section [IAQ Sensor Adjustment](#)

There are four levels of air quality:

Table 2 IAQ Leaf Stages

 IAQ	3 Leaf Stage Best air quality: the HRV/ERV will continue to operate as intended.
 IAQ	2 Leaf Stage Above-average air quality: the HRV/ERV will operate or stay at low speed.
 IAQ	1 Leaf Stage Below-average air quality: the HRV/ERV will operate or stay at medium speed.
IAQ	No Leaves Shown Stage Poor air quality: the HRV/ERV will operate or stay at high speed.

IAQ Sensor Adjustment

The sensor can be adjusted through the procedure that follows:

1. Press the “Options” touch area at the bottom of the screen.
2. Press and hold the “Next” button to get to the first IAQ score threshold.
3. Press the “up” or “down” arrow to increase or decrease the IAQ score threshold for low speed (2 leaf stage).
4. Press “Next” to confirm the threshold.
5. Repeat the previous 2 steps for the medium (1 leaf stage) and high speed (No leaves shown stage) stages.
6. Once complete, press “Next” to confirm the new threshold values.

Maintenance Reminder

Every 3 months (90 days), the maintenance icon will show. Refer to the ventilation system maintenance instructions.

1. To reset the maintenance timer, enter the options menu.
2. Advance to the “maintenance reset” option.

A blinking maintenance icon will come into view.
3. Hold the NEXT button for 3 seconds until the controller returns to its normal operation.

Fantech reserves the rights to alter their products without notice. This also applies to products already ordered, as long as it does not affect the previously agreed specifications.