

# INSTALLATION AND OWNER GUIDE FOR 40355, 40455 AND VT9W WALL CONTROLS

## WALL CONTROL COMPATIBILITY

REFER TO THE WALL CONTROL COMPATIBILITY CHART INCLUDED WITH THIS WALL CONTROL.

## WALL CONTROL INSTALLATION

### WARNING

IT IS RECOMMENDED TO WEAR SAFETY GLASSES AND GLOVES WHILE PERFORMING THESE INSTRUCTIONS. ALWAYS DISCONNECT THE UNIT BEFORE MAKING ANY CONNECTIONS. FAILURE TO DISCONNECT POWER COULD RESULT IN ELECTRIC SHOCK OR DAMAGE TO THE WALL CONTROL OR ELECTRONIC MODULE INSIDE THE UNIT.

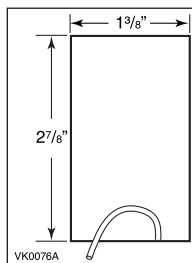
### CAUTION

FAILURE TO COMPLY WITH THE FOLLOWING CAN CAUSE ERRATIC OPERATION OF THE UNIT AND/OR THE WALL CONTROL:  
NEVER INSTALL MORE THAN ONE X-TOUCH MAIN WALL CONTROL PER UNIT. MAKE SURE THAT THE WIRES DO NOT SHORT-CIRCUIT BETWEEN THEMSELVES OR BY TOUCHING ANY OTHER COMPONENTS ON THE WALL CONTROL. AVOID POOR WIRING CONNECTIONS. TO REDUCE ELECTRICAL INTERFERENCE (NOISE) POTENTIAL, DO NOT RUN WALL CONTROL WIRING NEXT TO CONTROL CONTACTORS OR NEAR LIGHT DIMMING CIRCUITS, ELECTRICAL MOTORS, DWELLING/BUILDING POWER OR LIGHTING WIRING, OR POWER DISTRIBUTION PANEL.

1 UNPLUG THE VENTILATION UNIT FROM POWER SOURCE.

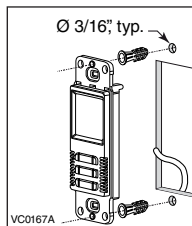
2 CUT A 2 7/8" x 1 3/8" HOLE IN A WALL, AT A CONVENIENT LOCATION FOR THE WALL CONTROL. ROUTE THE CABLE FROM THE UNIT TO THIS HOLE.

NOTE: DIMENSIONS SHOWN ARE FOR AN INSTALLATION WITHOUT WALL BOX.

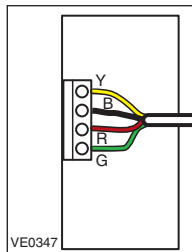


3 TEMPORARILY PLACE THE SWITCH OVER THE HOLE AND MARK BOTH MOUNTING SCREW HOLE POSITIONS.

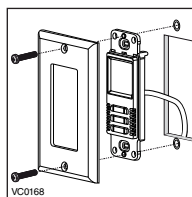
4 REMOVE THE SWITCH, DRILL BOTH SCREW HOLES (3/16" Ø) IN WALL AND INSERT WALL ANCHORS (INCLUDED).



5 STRIP THE END OF THE CABLE TO ACCESS THE 4 WIRES. STRIP THE END OF EACH WIRE. USING A SMALL BLADE SCREWDRIVER, CONNECT EACH WIRE TO ITS CORRESPONDING TERMINAL, ON THE BACK OF THE WALL CONTROL: YELLOW WIRE TO "Y," BLACK WIRE TO "B," RED WIRE TO "R," AND GREEN WIRE TO "G."



6 MOUNT THE WALL CONTROL TO THE WALL. PLUG THE VENTILATION UNIT AND TEST THE WALL CONTROL OPERATION.

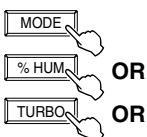


## ERROR CODES

ERROR CODES	SOLUTION
A 2-DIGIT ERROR CODE (E1, E2, ETC.) IS DISPLAYED ON WALL CONTROL SCREEN.	<ul style="list-style-type: none"> <li>ENSURE THAT THE COLOR CODED WIRES HAVE BEEN CONNECTED TO THEIR APPROPRIATE PLACE.</li> <li>ENSURE THAT THE WIRES ARE CORRECTLY CONNECTED.</li> <li>PRESS AND HOLD SIMULTANEOUSLY FOR 8 SECONDS ON % HUM, MODE AND TURBO KEYS TO RESET THE WALL CONTROL. THE USER PREFERENCES WILL HAVE TO BE RESET.</li> </ul>
A 3-DIGIT ERROR CODE (E21, E22, ETC.) IS DISPLAYED ON WALL CONTROL SCREEN.	<ul style="list-style-type: none"> <li>PROBLEM WITH THE VENTILATION UNIT. CONTACT YOUR INSTALLATOR.</li> </ul>
A 10-SECOND COUNTDOWN IS DISPLAYED ON WALL CONTROL SCREEN.	<ul style="list-style-type: none"> <li>WAIT UNTIL THE END OF THE COUNTDOWN, WITHOUT PRESSING ANY KEY.</li> </ul>

## WALL CONTROL USE

### BACKLIGHT

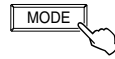


IF THE BACKLIGHT IS NOT ILLUMINATED, PRESSING ON MODE, % HUM OR TURBO KEY WILL ACTIVATE IT. THE BACKLIGHT REMAINS ILLUMINATED FOR 10 SECONDS AFTER THE LAST KEY IS PRESSED (NO MATTER THE KEY).

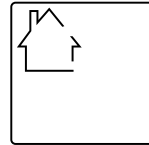
## WALL CONTROL USE (CONT'D)

### OPERATING MODES

NOTE: IF THE BACKLIGHT IS NOT ILLUMINATED, PRESS ON ANY KEY TO ACTIVATE THE WALL CONTROL.



PRESS THE MODE KEY TO CHOOSE THE OPERATION MODE OF THE VENTILATION UNIT (EXCEPT TURBO MODE). OPERATING MODE WILL THEN APPEAR ON LCD SCREEN (STANDBY, RECIRC, 20 min/h, CONT, SMART).



### STANDBY

PUT THE UNIT ON STAND-BY MODE, SO IT WILL ONLY RESPOND TO OVERRIDE WALL CONTROLS (IF PRESENT). ON LCD SCREEN, ONLY THE HOUSE IS VISIBLE SHOWING THE CONTROL IS POWERED ON. THIS IS THE FACTORY SET DEFAULT MODE.



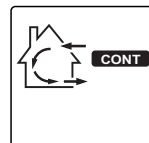
### RECIRC

AIR IS RECIRCULATED INSIDE THE HOUSE ON HIGH SPEED.



### 20 min/h

THE VENTILATION UNIT EXCHANGES AIR INTERMITTENTLY ON A ONE HOUR CYCLE AS FOLLOWS: OFF FOR 40 MIN. (OR RECIRCULATION FOR 40 MIN. ON LOW OR HIGH SPEED, SEE BACK PAGE) AND THEN EXCHANGE AIR DURING 20 MIN. ON LOW SPEED. REPEAT CYCLE AFTER THE 20 MIN. OF AIR EXCHANGE.

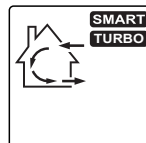


### CONT

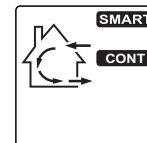
AIR IS EXCHANGED WITH THE OUTDOORS AT THE MINIMUM BLOWER SPEED.

### SMART

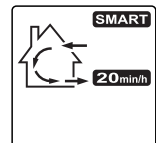
AIR EXCHANGE IS MANAGED ACCORDING TO INDOOR HUMIDITY MEASURED BY THE WALL CONTROL AND OUTDOOR TEMPERATURE. IN SMART MODE, THE SMART ICON APPEARS AS WELL AS THE CURRENT OPERATING MODE CALLED BY SMART (SEE BELOW).



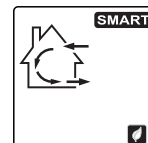
TURBO MODE  
CALLED BY  
SMART MODE



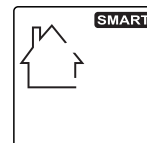
CONT MODE  
CALLED BY  
SMART MODE



20 min/h MODE  
CALLED BY  
SMART MODE



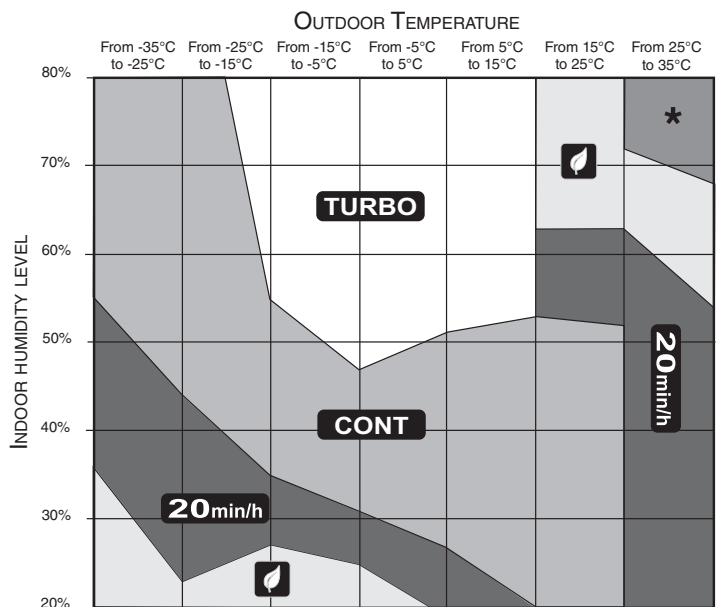
ECO MODE  
CALLED BY  
SMART MODE  
(SEE NOTE)



STANDBY  
MODE  
CALLED BY  
SMART MODE

NOTE: THE ECO MODE SET THE UNIT OPERATION TO STANDBY FOR 50 MINUTES (OR IN RECIRC MODE FOR 50 MINUTES; SEE SETTINGS SECTION) AND THEN EXCHANGE AIR DURING 10 MINUTES ON LOW SPEED. THIS MODE IS EXCLUSIVELY ACTIVATED BY SMART MODE.

THE CHART BELOW SHOWS THE OPERATING MODES CALLED BY SMART MODE, ACCORDING TO THE INDOOR HUMIDITY PERCENTAGE AND THE OUTDOOR TEMPERATURE.



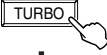
VG0100A


\* THIS AREA REPRESENTS STANDBY MODE.

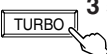
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## FUNCTIONS

### TURBO FUNCTION


 PRESS THE **TURBO** FUNCTION KEY TO TURN THE UNIT ON AIR EXCHANGE IN HIGH SPEED DURING 4 HOURS, THEN, THE UNIT WILL GET BACK TO ITS PREVIOUS OPERATION MODE.

 THE **TURBO** ICON IS FLASHING DURING THE 4-HOUR CYCLE. TO EXIT THIS FUNCTION BEFORE THE END OF ITS 4-HOUR CYCLE, PRESS ON **TURBO** OR **MODE** KEY; THE UNIT WILL GET BACK TO ITS PREVIOUS OPERATION MODE.

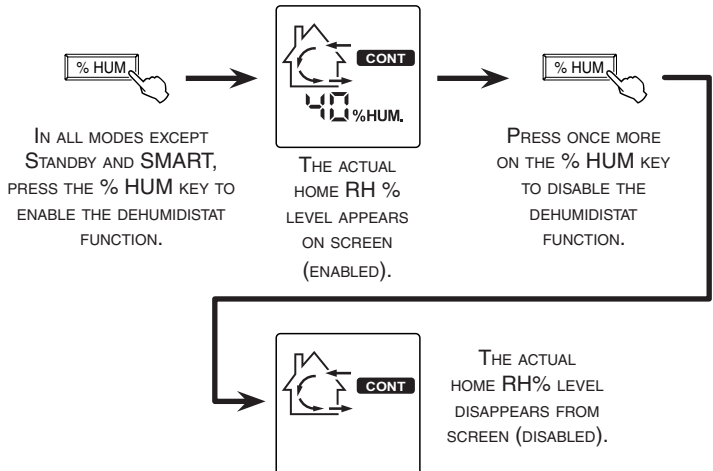
 **3 sec.** PRESS AND HOLD THE **TURBO** FUNCTION KEY DURING 3 SECONDS TO TURN THE UNIT ON AIR EXCHANGE IN HIGH SPEED CONTINUOUSLY.

 THE **TURBO** ICON APPEARS AND STAY CONTINUOUSLY. TO EXIT THIS **TURBO** MODE, PRESS ON **TURBO** OR **MODE** KEY; THE UNIT WILL GET BACK TO ITS PREVIOUS OPERATION MODE.

### DEHUMIDISTAT FUNCTION


 THE DEHUMIDISTAT FUNCTION HAS BEEN CREATED TO MANAGE THE INDOOR RELATIVE HUMIDITY EXCESS. WHEN THE ACTUAL HOME RELATIVE HUMIDITY PERCENTAGE (RH %) DETECTED IS OVER THE SET VALUE, DROPS APPEARS ON SCREEN AND THE CONTROL OVERRIDES THE CURRENT MODE, TURNING ON THE UNIT ON HIGH SPEED EXCHANGE UNTIL THE INDOOR RELATIVE HUMIDITY % SET IS REACHED. THE UNIT THEN RETURNS TO ITS PREVIOUS OPERATION SETTING. REFER BELOW TO FIND OUT HOW TO SET THE INDOOR RELATIVE HUMIDITY %.


#### HOW TO ENABLE AND DISABLE THE DEHUMIDISTAT FUNCTION:




## SETTINGS

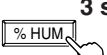
### HOW TO SET THE INDOOR RELATIVE HUMIDITY (RH %) LEVEL

 **3 sec.** PRESS AND HOLD THE **% HUM** KEY FOR 3 SECONDS.

 THE ACTUAL RH% LEVEL APPEARS ON SCREEN. DEFAULT VALUE: 44%


PRESS THE **% HUM** KEY TO CHANGE THE VALUE. LOWER VALUE: 30%. HIGHER VALUE: 56%.

 THE VALUE CHANGES BY 2% INCREMENTS.

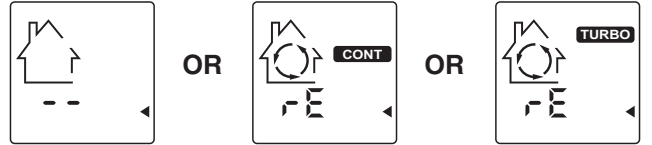
 **3 sec.** TO EXIT THIS SETTING MENU, PRESS AND HOLD THE **% HUM** KEY FOR 3 SECONDS OR WAIT 10 SECONDS.

## SETTINGS (CONT'D)

### HOW TO SET THE UNIT OPERATION IN THE REMAINING 40 MINUTES ON 20 MIN/H MODE AND HOW TO SET THE UNIT DEFROST CYCLE TYPE

PRESS AND HOLD THE **MODE** KEY  **3 sec.** FOR 3 SECONDS.

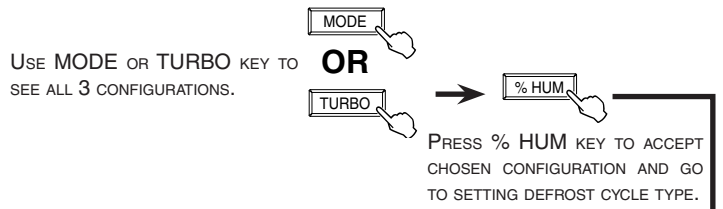
THE LCD SCREEN WILL SHOW ONE OF THESE CONFIGURATIONS:



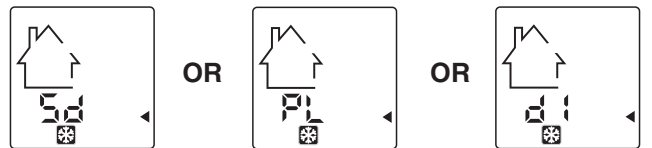
THE SMALL TRIANGLE AND TWO LINES FLASH TO SHOW **STANDBY** (DEFAULT CONFIGURATION SETTING).

RECIRCULATION ARROWS TURN WHILE THE SMALL TRIANGLE AND **rE** FLASH, **CONT** LABEL APPEARS TO SHOW **RECIRCULATION** ON LOW SPEED.

RECIRCULATION ARROWS TURN WHILE THE SMALL TRIANGLE AND **rE** FLASH, **TURBO** LABEL APPEARS TO SHOW **RECIRCULATION** ON HIGH SPEED.



THE LCD SCREEN WILL SHOW ONE OF THESE DEFROST CYCLE TYPES:

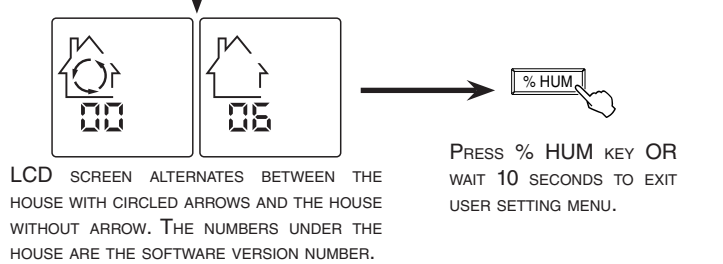
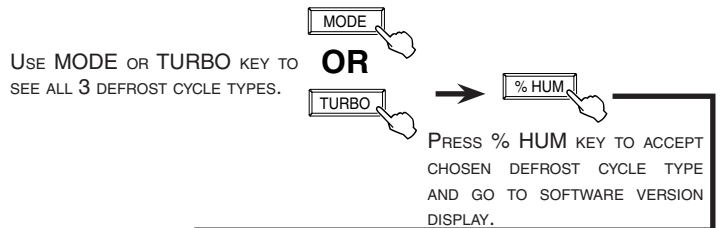


**Sd (STANDARD)** APPEARS OVER SNOWFLAKE ICON (DEFAULT CYCLE SETTING). WHEN NEEDED, THE UNIT WILL PERFORM DEFROST CYCLE ON HIGH SPEED.

**PL (PLUS)** APPEARS OVER SNOWFLAKE ICON. USE THIS CYCLE IN COLD REGION (OUTDOOR TEMPERATURE  $-27^{\circ}\text{C}$  [ $-17^{\circ}\text{F}$ ] AND LOWER). WHEN NEEDED, THE UNIT WILL PERFORM DEFROST CYCLE ON HIGH SPEED ON A LONGER PERIOD OF TIME.

**dl (DISCRETION)** APPEARS OVER SNOWFLAKE ICON. WHEN NEEDED, THE DEFROST CYCLE WILL BE PERFORMED ON THE SAME SPEED THAN THE UNIT VENTILATION SPEED. (E.G.: IF THE UNIT IS SET ON **TURBO**, THE DEFROST CYCLE WILL BE DONE ON HIGH SPEED, AND IF THE UNIT IS SET ON **CONT**, THE DEFROST CYCLE WILL BE DONE ON LOW SPEED.

**NOTE:** THIS IS THE DEFROST TYPE USED FOR THE DATA PUBLISHED BY HVI AND ENERGY STAR®.

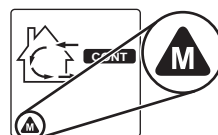


### PROTECTION MODE





THIS ICON APPEARS TO SHOW WHEN THE VENTILATION UNIT IS IN **PROTECTION MODE**. THIS SPECIAL MODE HAS BEEN CREATED TO PROTECT THE VENTILATION UNIT FROM SPECIFIC CONDITIONS (E.G.: OUTDOOR TEMPERATURE COLDER THAN  $-25^{\circ}\text{C}$ ). THERE IS NO ACTION TO BE TAKEN WHEN THIS ICON APPEARS, IT WILL DISAPPEAR BY ITSELF.

### MAINTENANCE INDICATOR



THIS ICON FLASHES WHEN IT IS TIME TO PERFORM THE MAINTENANCE. REFER TO THE VENTILATION UNIT USER GUIDE.

 **AND**  ONCE THE UNIT MAINTENANCE IS DONE, PRESS SIMULTANEOUSLY ON BOTH **MODE** AND **TURBO** KEYS TO RESET THE MAINTENANCE INDICATOR. THIS WILL ERASE THE ICON FROM THE SCREEN.