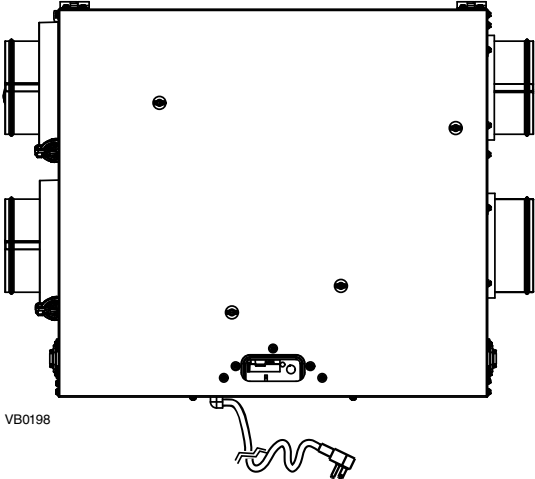




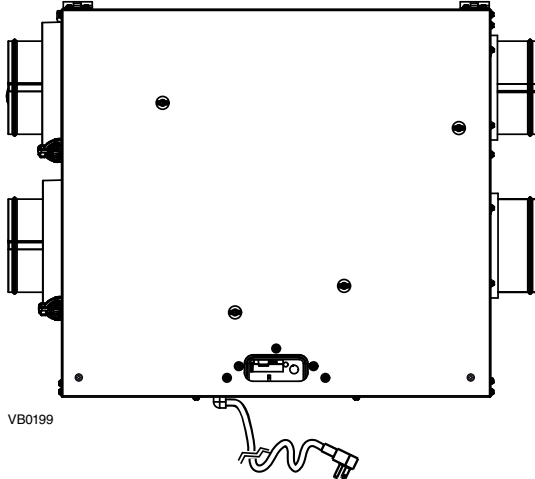
USER GUIDE

ENERGY RECOVERY VENTILATORS VENMAR AVS S10 ERV, AVS S10C ERV AND AVS S10 ERVPLUS

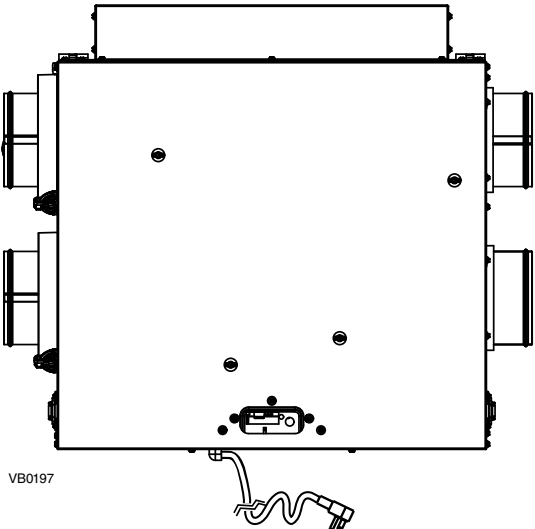
Model no.: 41700



Model no.: 41704



Model no.: 41702*



PLEASE READ AND SAVE THESE INSTRUCTIONS

Venmar Ventilation inc., 550 Lemire Blvd., Drummondville, QC, Canada J2C 7W9
www.venmar.ca



*This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR requirements only when used in Canada.

Thank you for buying a Venmar unit!

We have prepared this User Guide especially for you. Please read it carefully to ensure you obtain full benefit from your ERV. Please take note that this manual uses the following symbols to emphasize particular information:

⚠ WARNING

Identifies an instruction which, if not followed, might cause serious personal injuries including possibility of death.

CAUTION

Identifies an instruction which, if not followed, may severely damage the unit and/or its components.

NOTE: Indicates supplementary information needed to fully complete an instruction.

We welcome any suggestions you may have concerning this guide and/or the unit, and we would appreciate hearing your comments on ways to better serve you. Please forward all correspondence to us at the address indicated on the product registration card included with this guide.

CAUTION

Make sure at all times that the outside intake and exhaust hoods are free from any snow during the winter season. It is important to check your unit during a big snow storm, so it doesn't draw in any snow. If this is the case, please operate the unit in recirculation mode (if available), or turn it OFF for a few hours.

Do not use your unit during construction or renovation of your house or when sanding drywall. This type of dust may damage your system.

Since the electronic control system of the unit is incorporated with a microprocessor, it may not operate correctly because of external noise or very short power failure. If this happens, unplug the unit and wait approximately 10 seconds. Then, plug the unit in again.

When leaving the house for a long period of time (more than two weeks), a responsible person should regularly check if the unit operates adequately.

If the ductwork runs through an unconditioned space (e.g.: attic), the unit must operate continuously except when performing maintenance and/or repair. Also, the ambient temperature of the house should never drop below 18°C (65°F).

REPLACEMENT PARTS AND REPAIR

In order to ensure your ventilation unit remains in good working condition, you must use Venmar Ventilation Inc. genuine replacement parts only. The Venmar Ventilation Inc. genuine replacement parts are specially designed for each unit and are manufactured to comply with all the applicable certification standards and maintain a high standard of safety. Any third party replacement part used may cause serious damage and drastically reduce the performance level of your unit, which will result in premature failing. Venmar Ventilation Inc. also recommends to contact a Venmar Ventilation Inc. certified service depot for all replacement parts and repairs.

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1. DEFROSTING MODES

When the outside temperature is below -10°C (14°F)*, recovery of energy creates frost in the core.

To maintain its proper operation, the unit is programmed to defrost the energy recovery core.

For AVS S10 ERV and AVS S10c ERV models, during the defrost cycle, the unit keeps the same speed but stops to supply fresh air.

For AVS S10 ERVplus model, during the defrost cycle, the dampers close but the unit speed can be set on high or low, according to your needs. See point 2.4 for more details.

After defrosting, the unit returns to the operating mode selected by the user.

*Due to its unique design, the AVS S10c ERV model is programmed to defrost on a regular basis, no matter the outdoor temperature.

2. CONTROLS

2.1 AVS S10 ERV_{PLUS} BOOTING SEQUENCE

The unit booting sequence is similar to a personal computer booting sequence.

Each time the unit is plugged after being unplugged, or after a power failure, the unit will perform a booting sequence before starting to operate.

During the booting sequence, the LED located on the unit door (**A** in illustration below) will be OFF for 3 seconds, and then will turn RED for the rest of the booting sequence (approximately 30 seconds). During this RED light phase, the unit is checking and resetting the motorized damper position.

Once the motorized damper position completely set, the booting sequence is done; the color of the LED will show on which defrost cycle the unit is set.

NOTE: No command will be taken until the unit is fully booted.

2.2 AVS S10 ERV AND AVS S10c ERV BOOTING SEQUENCE

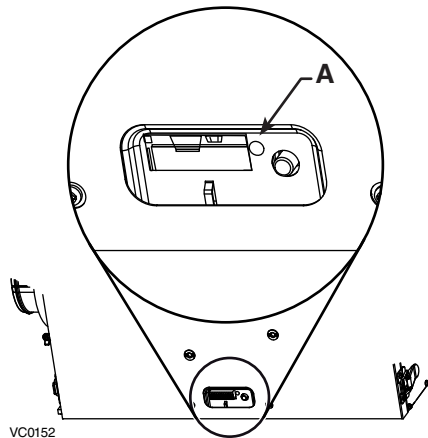
The unit booting sequence is similar to a personal computer booting sequence.

Each time the unit is plugged after being unplugged, or after a power failure, the unit will perform a booting sequence before starting to operate.

During the booting sequence, the integrated control LED located on the unit door (**A** in illustration below) will light up and remain GREEN or AMBER for 3 seconds, and will then shut off*; the booting sequence is done.

* or will light the color of the previous mode to show the unit resume to it, if the unit is controlled by its integrated control.

NOTE: No command will be taken until the unit is fully booted.



2.3 BLINKING LED

If a problem occurs during the unit operation, or if the unit turns in Protection mode*, its integrated control LED (**A**) will blink. The color and pattern of the blinking light depends on the type of error detected (or if running in Protection mode, see point 7B on page 14).

Refer to Section 4 Troubleshooting for further details.

* All units are equipped with an electronic supplemental protection, called Coldshield™ Protection, to stop air distribution in dwelling if air distribution temperature drops below freezing point, due to abnormal conditions.

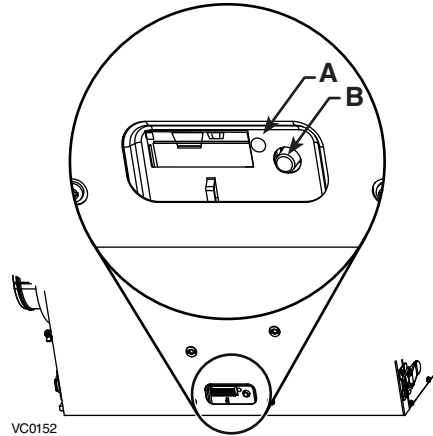
2. CONTROLS (CONT'D)

2.4 AVS S10 ERV_{PLUS} INTEGRATED DEFROST CONTROL

After the booting sequence is done, the LED (A) will light and stay lit to show in which defrost cycle the unit is set. Use the push button (B) to change the defrost cycle of the unit (see table below).

LED COLOR	DEFROST CYCLE
GREEN	STANDARD
RED	PLUS
AMBER	DISCRETION

NOTE: There is a 15-minute delay for the new defrost cycle choice to be kept in memory; if a power failure occurs during this time delay, when the power returns, the unit resume to its previous setting.



According to your needs, there are 3 defrost cycles available:

STANDARD: This is the factory set defrost cycle. This mode is the most efficient used to suit HVI and ENERGY STAR® performance. When needed, the unit will perform defrost cycle on high speed.

PLUS: This mode has been created for people who live in cold region (outside temperature -27°C [-17°F] and lower). This setting makes the unit perform defrost cycle on high speed for a longer period of time.

DISCRETION: When needed, the defrost cycle will be performed on the same speed than the unit ventilation speed. This means that if the unit is set on high speed, the defrost cycle will be done on high speed, but if the unit is set on low speed, the defrost cycle will be done on low speed.

2.5 AVS S10 ERV AND AVS S10C ERV UNITS INTEGRATED CONTROL

Use the push button (B) to control the unit. The LED (A) will then shows on which mode the unit is in. Refer to table at right.

NOTE: When using main control, the integrated control must be turned off (no light from LED).

LED COLOR	RESULTS
AMBER	UNIT IS ON LOW SPEED
GREEN	UNIT IS ON HIGH SPEED
No LIGHT	UNIT IS OFF OR CONTROLLED BY A MAIN CONTROL

2.6 SETTING EXTENDED DEFROST FOR AVS S10 ERV AND AVS S10C ERV UNITS

These units are factory set to normal defrost. In cold region (outside temperature -27°C [-17°F] and lower), it may be necessary to setup extended defrost. During the first 3 seconds of booting sequence, the integrated control LED shows the current defrost mode (refer to table at right).

LED COLOR	DEFROST MODE
GREEN	NORMAL
AMBER	EXTENDED

Within the first 3 seconds of booting sequence, press on push button until the LED starts to blink, then release the push button; the LED will blink AMBER 5 times. After that, the LED will shut off, then turn RED (the unit returns in its booting sequence).

2. CONTROLS (CONT'D)

The S10 ERVplus unit must be controlled by a main control. For more convenience, S10 ERV and S10c ERV units can also be controlled using an optional main control. Only one main control can be connected per unit.

NOTES: 1. The integrated control must be turned OFF on S10 ERV and S10c ERV models to use a main control.

2. If an optional auxiliary control is used, if activated, this auxiliary control will override the optional main control operation.

2.7 ALTITUDE MAIN CONTROL (FOR AVS S10 ERVPLUS MODEL ONLY)

ALTITUDE WALL CONTROL KEYS AND INDICATORS

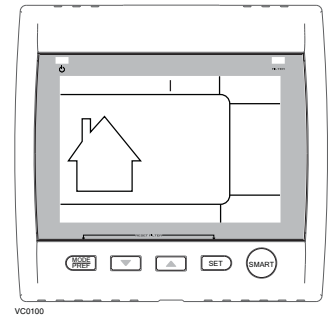
MODE/PREF KEY



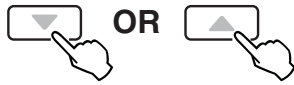
Press this key to select whether Ventilation mode (air exchange with the outside), Recirculation mode (air recirculation within the house) or Program mode (the operation of the ventilation unit is customized by the user. Refer to **How to SET PERIODS FOR PROGRAM MODE** section).



Press and hold this key for 3 seconds to access Preference setting menu.



ARROW KEYS



Use the arrow keys to:

- Select ventilation and recirculation speeds.
- Review the programmed periods.
- Select Preference and Program values.

8 SEC.



Press on Up arrow key for 8 seconds to display indoor relative humidity level (in percentage).

SET KEY



Press and hold this key for 3 seconds to access setting periods for Program Mode.

Press this key to confirm the chosen option and go to the following setting.

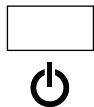
SMART KEY



Press this key to enable and disable the SMART mode.

The SMART mode uses indoor relative humidity level and minimum and maximum outdoor temperature values to manage the air exchange with the outdoors, in order to enhance comfort in the house.

POWER INDICATOR



This indicator, located in the upper left side of the wall control, illuminates when the control powered on.

FILTER MAINTENANCE INDICATOR



This indicator, located in the upper right side of the wall control, illuminates when it is time to perform the ventilation unit filter maintenance (refer to Section 3 Maintenance).

Once the filter maintenance is done, reset the filter maintenance indicator as follow:

BOTH DURING 5 SEC.



Press simultaneously on both MODE/PREF key and SET key for 5 seconds to turn off the filter maintenance indicator light.

POWER FAILURE

After a power failure, the Altitude wall control returns to its original settings. However, if the power failure duration is more than 4 hours, the wall control loses only its day and time settings memory (these must be reprogrammed, see next page). The rest of the preferences and settings is kept in permanent memory.

2. CONTROLS (CONT'D)

2.7 ALTITUDE MAIN CONTROL (FOR AVS S10 ERVPLUS MODEL ONLY) (CONT'D)

HOW TO SET PREFERENCES

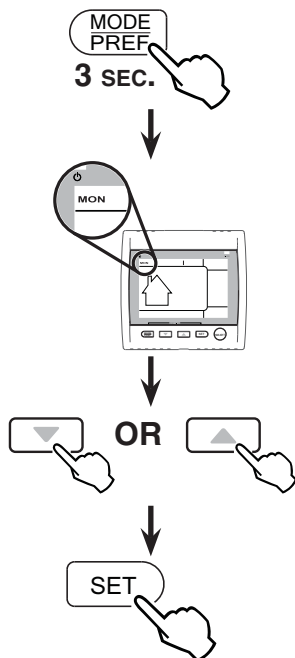
In order to benefit from all of the features of your wall control, the preferences must be set. Table below shows all available settings.

SETTING	AVAILABLE VALUES	DEFAULT OPTION
CURRENT DAY	MON/TUE/WED/THU/FRI/SAT/SUN	MON
HOUR DISPLAY	12:00 ^{AM} OR 24:00	12:00 ^{AM}
CURRENT HOUR	FROM 0 TO 12 OR 24	12
CURRENT MINUTE	FROM 00 TO 59	00
TEMPERATURE UNIT	°C OR °F	°C
INSIDE TEMPERATURE DISPLAY	ON OR OFF	ON
MINIMUM OUTSIDE TEMPERATURE FOR AIR EXCHANGE*	-40°C TO 0°C OR -40°F TO 32°F	-25°C OR -13°F
MAXIMUM OUTSIDE TEMPERATURE FOR AIR EXCHANGE*	1°C TO 40°C OR 33°F TO 104°F	27°C OR 81°F
*IN PROG OR SMART MODE, THESE LIMIT VALUES ALLOW TO STOP AIR EXCHANGE WITH THE OUTSIDE FOR BETTER COMFORT IN THE HOUSE.		
BACKLIGHT COLOR	BLUE OR GREEN	BLUE
BACKLIGHT DISPLAY	AUTO OR ON	AUTO
AUTO: BACKLIGHT ACTIVATED 10 SECONDS WHEN ANY KEY IS PRESSED. ON: BACKLIGHT ALWAYS ON.		
OFF MODE FOR INTERMITTENT MODE	VENTILATION/RECIRCULATION OR VENTILATION/OFF	VENT/RECIRC.
AFTER A VENTILATION PERIOD, DETERMINES THE SECOND PART OF THE CYCLE (RECIRCULATION OR OFF).		

NOTE: The outdoor temperature value displayed on LCD screen comes from the reading while the unit is performing air exchange. Also, keep in mind that outdoor temperature reading is taken from the unit fresh air from outside port; due to the length of the insulated duct, the result of the reading is slightly different from the real outside temperature.

SETTING PREFERENCES PROCEDURE

NOTE: While setting Preferences, the corresponding setting value flashes (e.g.: while setting current hour, hour is flashing).



Press and hold MODE/PREF key for 3 seconds to access the setting menu.

NOTE: You can exit Preferences setting by pressing on MODE/PREF for 3 seconds any time in the process, or wait 60 seconds. The modified values will be kept in memory.

If the control is set for the very first time, the current day will be the first setting to be made: MON (for Monday) will flash on screen.

Use the arrow keys to select value.

Press SET key to confirm the selected preference and go to next setting.

2. CONTROLS (CONT'D)

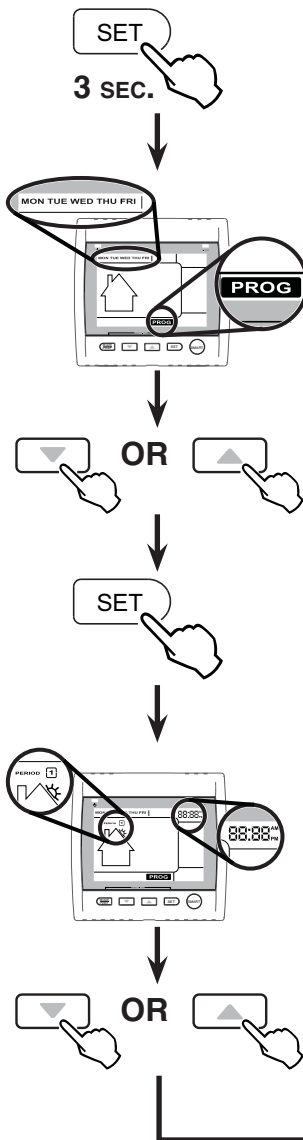
2.7 ALTITUDE MAIN CONTROL (FOR AVS S10 ERVPLUS MODEL ONLY) (CONT'D)

HOW TO SET PERIODS FOR PROGRAM MODE

The Program Mode allows the user to customize the operation of his/her ventilation unit, for week and weekend days. All days are divided in 4 periods. The periods starting hour and ventilation speed are factory set (see below).

DAILY PERIODS DEFAULT SETTINGS		
PERIOD	STARTING HOUR	MODE
PERIOD 1 (MORNING)	6:00 AM	MIN
PERIOD 2 (DAY)	9:00 AM	20 MIN/H
PERIOD 3 (EVENING)	5:00 PM	MIN
PERIOD 4 (NIGHT)	11:00 PM	20 MIN/H

TO CHANGE THESE VALUES:



Press SET key for 3 seconds.

PROG (for Program) will appear on screen and week days will flash.

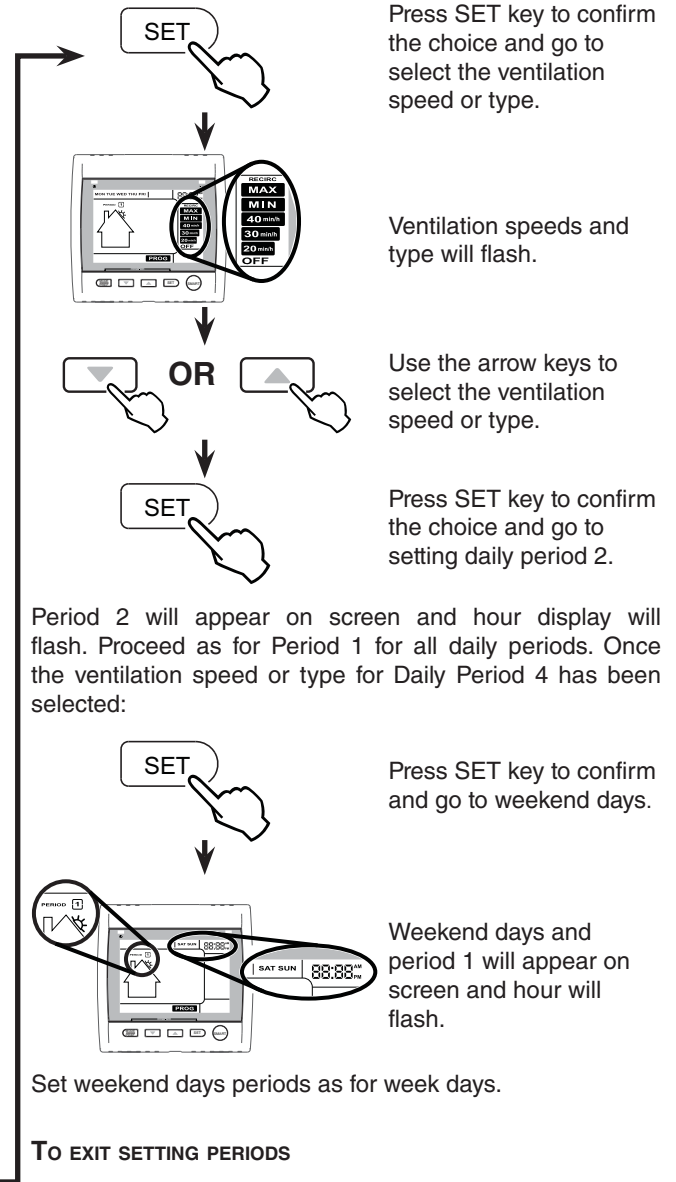
NOTE: If the week days were the first to be set, the weekend days will appear on screen; but if the weekend days were the first to be set, then the week days will appear on screen.

Use the arrow keys to select between week days or weekend days.

Press SET key to confirm the choice and go to setting daily period 1.

Period 1 will appear on screen and hour display will flash.

Use the arrow keys to select the period starting hour.
NOTE: Time changes by 15 minutes increments.



Press SET key to confirm the choice and go to select the ventilation speed or type.

Ventilation speeds and type will flash.

Use the arrow keys to select the ventilation speed or type.

Press SET key to confirm the choice and go to setting daily period 2.

Period 2 will appear on screen and hour display will flash. Proceed as for Period 1 for all daily periods. Once the ventilation speed or type for Daily Period 4 has been selected:

Press SET key to confirm and go to weekend days.

Weekend days and period 1 will appear on screen and hour will flash.

Set weekend days periods as for week days.

TO EXIT SETTING PERIODS



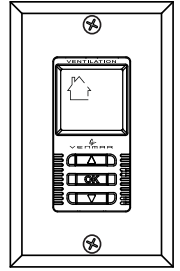
Press SET key for 3 seconds.

2. CONTROLS (CONT'D)

2.8 DECO-TOUCH MAIN CONTROL (FOR AVS S10 ERV_{PLUS} AND AVS S10 ERV MODELS ONLY)

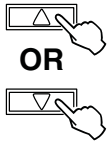
BACKLIGHT

If the backlight is not illuminated, the first button pressed (no matter which button) shall turn on the backlight only, without incurring any other changes. The backlight remains illuminated for 10 seconds after the last button pressed.



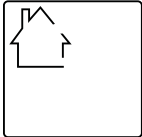
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OPERATING MODES



OR

To change the operation modes of the ventilation unit, press the UP or DOWN arrow button. Operating mode label will then scroll up or down on LCD screen.



OFF

Put the unit on standby 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 default mode.



RECIRC

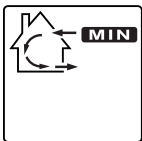
Air is recirculated inside the house at high speed.
NOTE: This mode is not available for AVS S10 ERV.



20 MIN/H

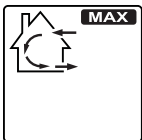
The ventilation unit exchanges air intermittently on a one hour cycle as follows: OFF for 40 min. (or recirculation* on high speed for 40 min., see next page) and then exchange air during 20 min. on low speed. Repeat cycle after the 20 min. of air exchange.

*Only OFF mode for AVS S10 ERV.



MIN

Air is exchanged with the outdoors on low speed.



MAX

Air is exchanged with the outdoors on high speed.

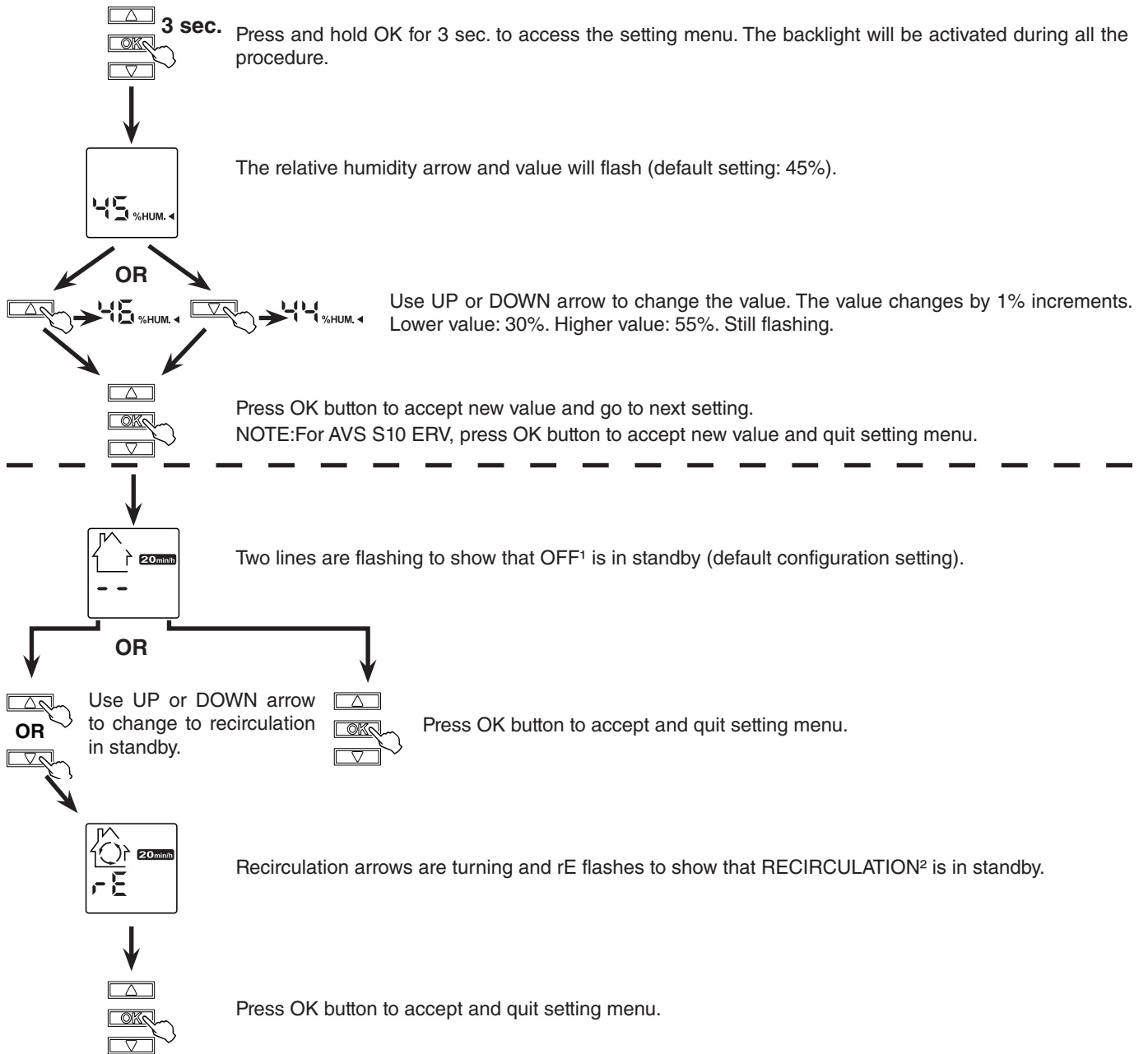
2. CONTROLS (CONT'D)

2.8 DECO-TOUCH MAIN CONTROL (FOR AVS S10 ERVPLUS AND AVS S10 ERV MODELS ONLY) (CONT'D)

HOW TO SET THE RELATIVE HUMIDITY (RH) LEVEL AND CHOOSE BETWEEN **OFF IN STANDBY** OR **RECIRCULATION IN STANDBY***

Setting the relative humidity level allows to select the maximum desired indoor humidity level (in percentage). This value will be used to start the dehumidistat override (air exchange on high speed).

NOTE: Before proceeding, press on any button to turn on the backlight.



¹**OFF IN STANDBY:** On 20 min./h. mode, the ventilation unit is OFF during 40 minutes and exchanges air with the outdoors on low speed during the remaining 20 minutes of the hour; this is the default value.

²**RECIRCULATION IN STANDBY*:** On 20 min./h. mode, the ventilation unit recirculates the indoor air for 40 min. on high speed and exchanges air with the outdoors on low speed during the remaining 20 min. of the hour.

*RECIRCULATION in standby is not available for AVS S10 ERV model.

2. CONTROLS (CONT'D)

2.8 DECO-TOUCH MAIN CONTROL (FOR AVS S10 ERVPLUS AND AVS S10 ERV MODELS ONLY) (CONT'D)

DEHUMIDISTAT OVERRIDE SELECTION

In the operating modes MIN, MAX, 20 min./h. and RECIRC (if available), the user can select a dehumidistat override so that if the relative humidity (RH) in the house exceeds the RH setting previously stored, the ventilation unit will exchange in high speed until the target indoor RH setting is reached.

An air exchanger is not a dehumidifier, but it can change the indoor relative humidity by bringing in drier or more humid air from outside during non heating season. The dehumidistat override function is useful to reduce indoor RH when the outdoor air is cool and dry during the heating season. Select a target RH between 30% and 55% according to your comfort. When outdoor relative humidity is high (e.g. in summer), turn off the override by pressing OK until the RH display disappears.



When the dehumidistat override is activated, the AUTO indicator will appear on LCD screen to show that the actual mode is being overridden. Also, the relative humidity appears (if it was not shown, see example beside). Once the target humidity level is reached, the unit goes back into its original operating mode and AUTO disappears from LCD screen.

NOTE: If the actual mode is MAX, only the relative humidity level appears on screen, AUTO label will not appear.

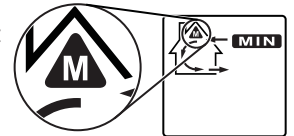
To engage the humidity override, press OK. The actual indoor RH and the %HUM label appear on LCD screen.

NOTE: If the actual RH is less than 20%, then the humidity indicator will display "LO"; and if the actual RH is greater than 80%, then the humidity indicator will display "HI".

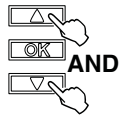
To turn off the dehumidistat override, press OK again. The RH and %HUM display will disappear from LCD screen.

MAINTENANCE INDICATOR

The maintenance indicator is represented by an M in a rounded triangle, at the top of the house (see at right). If this indicator is flashing, perform the quarterly maintenance, and if it is not flashing, perform the annual maintenance (refer to Section 3).



RESETTING MAINTENANCE INDICATOR: Press simultaneously on both arrow buttons, maintenance indicator will disappear from LCD screen.



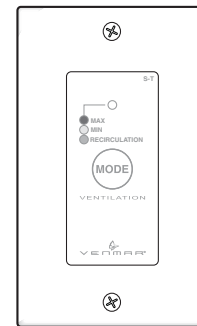
POWER FAILURE

After a power failure, the wall control returns to its original operation mode. All settings are kept in memory.

2.9 SIMPLE-TOUCH CONSTRUCTO MAIN CONTROL (FOR AVS S10 ERVPLUS MODEL ONLY)

Activate the push button; the color of the indicator shows the unit operating mode.

Color	Mode	Suggested Use
GREEN	Recirculation	Use this mode when you deem the inside air is too dry in heating season, or too humid during cooling season. In this mode, the unit stops exchanging with the outside and recirculates inside air at high speed.
YELLOW	Min Speed Ventilation	For normal daily operation.
RED	Max Speed Ventilation	For excess pollutants and humidity (parties, odors, smoke, etc.)



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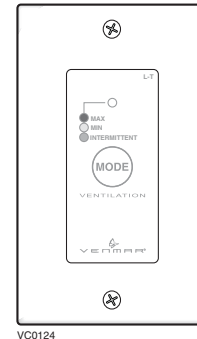
NOTE: After a power failure, the wall control turns OFF.

2. CONTROLS (CONT'D)

2.10 LITE-TOUCH CONSTRUCTO MAIN CONTROL (FOR ALL MODELS)

Activate the push button; the color of the indicator shows the unit operating mode.

Color	Mode	Suggested Use
GREEN	Intermittent	Select this mode when you are away from the house for a few days. Also, when you deem the inside air is too dry in heating season, or too humid during cooling season. In this mode, the unit is OFF for 40 minutes per hour and ventilates at minimum speed the remaining 20 minutes of the hour.
YELLOW	Min Speed Ventilation	For normal daily operation.
RED	Max Speed Ventilation	For excess pollutants and humidity (parties, odors, smoke, etc.)



NOTE: After a power failure, the wall control turns OFF.

2.11 CONSTRUCTO MAIN CONTROL (FOR ALL MODELS)

Adjusting AIR SUPPLY CONTROL

- Select "MIN" or "MAX" using slide switch (A).
 - When "MIN" (minimum speed) is selected, if the knob (B) is set above the click, the unit will exchange in low speed with the outside and if it is set below the click, the unit will exchange on high speed with the outside until the desired humidity level has been reached.
 - When "MAX" (maximum speed) is selected, the unit will exchange on high speed with the outside either if the knob is set below or above the click.
- To **turn off the unit**, slide the switch at the "OFF" position.

Adjusting DEHUMIDISTAT

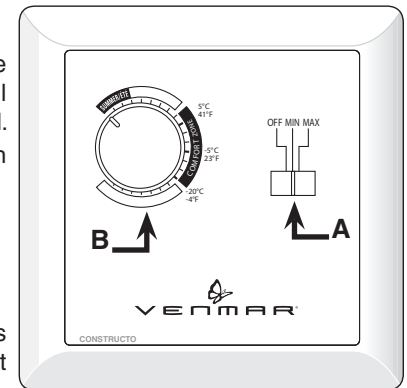
Setting during the summer months:

During this period, unless being afflicted with breathing problems, using the Dehumidistat is unnecessary. Set the slide switch to "OFF". (Do not exchange in day time; exchange at night time, if cool outside, or if it is not raining.)

Setting during the fall, winter and spring months:

(When severe condensation appears on windows)

- Determine the humidity level in your house (bring the knob (B) counterclockwise to its maximum position, then bring it back clockwise slowly until you hear a "click").
- Set the knob to one line under this temperature level or "click".



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CAUTION

Do not select a temperature below -20°C (-4°F). This could lead to excessive dryness in the air causing discomfort for the occupants.

It is possible (and normal) to experience condensation on your windows when drastic changes in temperature happen (for example: -5°C [23°F] to -20°C [-4°F]). In that case, we suggest waiting a few days to allow the situation to stabilize.

2. CONTROLS (CONT'D)

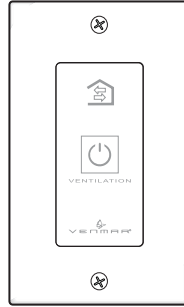
2.12 OPTIONAL AUXILIARY CONTROLS

Contrary to the main controls, many optional auxiliary controls can be connected to the same ventilation unit.

NOTE: When outside temperature drops below -10°C (14°F), the unit will perform a defrost cycle at the end of auxiliary control cycle.

2.12.1 20-MINUTE LIGHTED PUSH BUTTON (FOR AVS S10 ERV AND AVS S10c ERV MODELS ONLY)

Press once to activate the push button. The unit will operate on high speed for 20 minutes and the indicator will light up. To stop activation before the end of the 20-minute cycle, push one more time. The unit will get back to its previous setting.

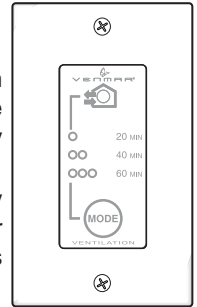


VC0141

2.12.2 20/40/60-MINUTE PUSH-BUTTON TIMER (FOR AVS S10 ERVPLUS MODEL ONLY)

Location: Located in the bathroom or in other locations where there is temporary humidity excess or pollutants.

Purpose: To eliminate excess humidity produced by showers or other periodic activities producing pollutants.



VC0143

Within 2 seconds, push once for 20 minutes, twice for 40 minutes or three times for a 60-minute activation.

Results expected:

1. Motor speed: high for 20, 40 or 60 minutes.
2. Indicator light goes "ON" and flashes every 5 seconds (once to indicate a 20-minute operation, twice for a 40-minute, and three times for a 60-minute operation).
3. Air exchange indicator light goes "ON".
4. When chosen duration is completed, the unit resumes to its previous settings.

NOTE: To stop activation before the end of the chosen duration, push one more time.

2.12.3 DEHUMIDISTAT (FOR ALL MODELS)

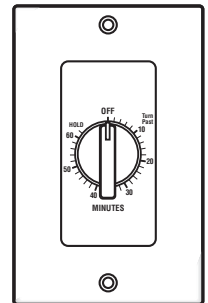
Adjust knob to the desired maximum indoor humidity level.



VC0009

2.12.4 60-MINUTE CRANK TIMER (FOR ALL MODELS)

This control makes the system operate at high speed for periods varying from 10 to 60 minutes.



VC0017

CAUTION

Do not select a humidity level below 30%. This could lead to excessive dryness in the air causing discomfort for the occupants.

3. MAINTENANCE

⚠ WARNING

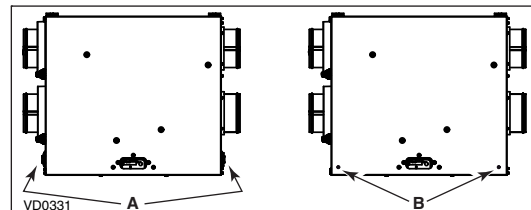
Risk of electric shock. Before performing any maintenance or servicing, always disconnect the unit from its power source. When cleaning the unit, it is recommended to wear safety glasses and gloves.

3.1 QUARTERLY MAINTENANCE

1. Turn off and unplug the unit.
2. Open the unit door:

AVS S10 ERV AND AVS S10 ERVPLUS MODELS:
Unlatch both side latches (A).

AVS S10c ERV MODEL:
Remove both door screws (B) and set aside.



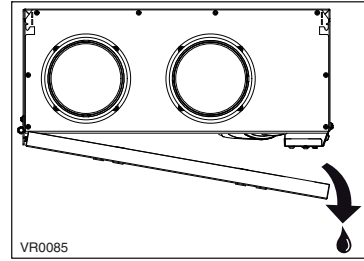
3. MAINTENANCE (CONT'D)

3.1 QUARTERLY MAINTENANCE (CONT'D)

2. Open the unit door (cont'd)

CAUTION

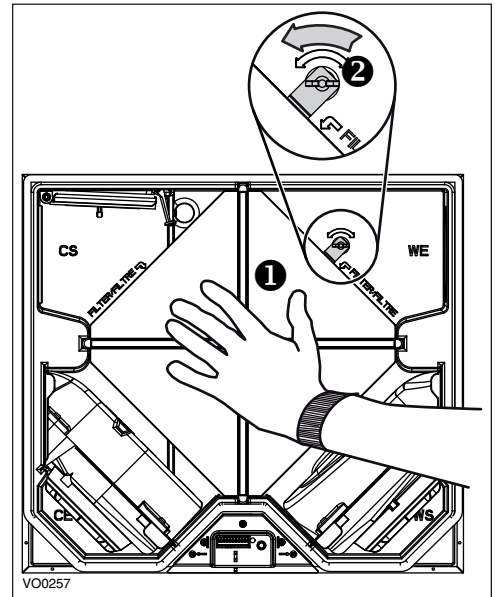
Be careful when opening the door; water may be present when outdoor temperature is cold.



WARNING

Always hold the core when rotating the core retaining bracket; failure to do so will cause the core to fall out.

3. While retaining the core (1), loosen the wing nut (2) and rotate the core retaining bracket (shaded part in illustration at right) to disengage it from the core flange. Slide out the core with its filters.



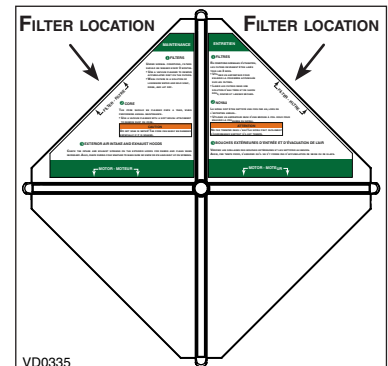
4. Clean the inside walls and door of the unit with a damp cloth, then wipe with a clean dry one.

5. Remove both filters from core top and wash them under hot water with mild soap. Rinse thoroughly and let dry completely before reinstalling on the core.

6. Remove the dust on the core using a vacuum cleaner and a soft brush attachment.

CAUTION

Do not soak the recovery core in water!



7. Reinstall the filters on the cleaned core; refer to the core label for proper location.

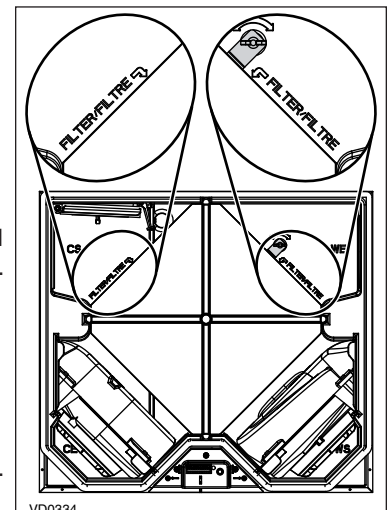
8. Slide the cleaned core with filters in the unit. Refer to filters location indicators embossed inside the unit to position adequately the core. Use the core bracket to lock the core in place.

WARNING

Hold the core until the core bracket is completely tighten.

9. Close the door, plug back the unit and turn it on.

NOTE: The unit will return to its previous setting after a 30-second delay for booting sequence.



3. MAINTENANCE (CONT'D)

3.2 ANNUAL MAINTENANCE

Proceed as the Quarterly Maintenance (Section 3.1), but before reinstalling the cleaned core, clean the supply side damper using a vacuum cleaner and a soft brush attachment. Check if it can move freely. Then, clean the exterior hoods.


4. TROUBLESHOOTING

If the unit does not work properly:

AVS S10 ERVplus: Turn off the unit using its main control, reset the unit by unplugging it for one minute and then replug it.

AVS S10 ERV and S10c ERV: Turn off the unit using the integrated push-button, reset the unit by unplugging it for one minute and then replug it.

All units: If it still not working properly, refer to table below.

PROBLEMS		TRY THIS
1.	On Altitude wall control, there is no outside temperature displayed on screen  .	<ul style="list-style-type: none"> At its very start-up or after a power failure, it takes some minutes before the outside temperature value appears on screen. Set the wall control on MIN or MAX in VENT mode. If the problem is not solved by the above, contact your installer.
2.	On Altitude or Deco-Touch wall control, error code E1 or E3 appears on screen.	<ul style="list-style-type: none"> Contact your installer.
3.	Nothing works.	<ul style="list-style-type: none"> See if the unit is plugged in. See if the unit is receiving power from the house circuit breaker or fuse.
4.	Condensation on windows (air too humid).	<ul style="list-style-type: none"> Operate the unit on maximum speed ventilation until the situation is corrected. Leave curtains half-open to allow air circulation. Store all firewood in a closed room with a dehumidifier or in a well ventilated room, or store the wood outside. Do not adjust the thermostat of your heating system below 18°C (64°F).
5.	Inside air too dry.	<ul style="list-style-type: none"> Temporarily use a humidifier. Operate the unit in recirculation mode (if available).
6.	Air too cold at the air supply grille.	<ul style="list-style-type: none"> Check if the exterior hood(s) is (are) not blocked. Operate the unit in low speed ventilation or in intermittent or recirculation mode (if available). Install a duct heater.
7.	A. The LED of the integrated control is blinking RED (one blink every second).	<ul style="list-style-type: none"> There is a problem with one of the motors. The unit is OFF. Contact your installer.
	B. The LED of the integrated control is blinking RED (2 blinks per second, faster blink).	<ul style="list-style-type: none"> When outside temperature is colder than -25°C, it could be normal for the unit to enter in Protection Mode. Unit exhaust air without entering fresh air for a 2-hour period, then resume to its previous operation mode and stops flashing RED. If LED continues to flash RED when back to previous mode, contact your installer.
8.	A. The LED of the integrated control is blinking GREEN (2 blinks every 2 seconds).	<ul style="list-style-type: none"> There is a problem with the cold side thermistor. The unit is still working, but will defrost frequently. Contact your installer.
	B. The LED of the integrated control is blinking GREEN (2 blinks per second, faster blink).	<ul style="list-style-type: none"> There is a problem with the warm side thermistor. The unit is OFF. Contact your installer.
9.	The LED of the integrated control is blinking AMBER (S10 ERVplus unit only).	<ul style="list-style-type: none"> There is a problem with the damper system. Contact your installer.
10.	The push button on integrated control or integrated defrost control does not work.	<ul style="list-style-type: none"> The 30-second boot sequence is not completed. According to the unit, see 2.1 or 2.2 on page 3. If the booting sequence is completed and the push button still doesn't work, contact your installer.