

USER GUIDE



VB0100

MODELS

ERV CONSTRUCTO 1.5 QUATTRO

ERV CONSTRUCTO 2.0 QUATTRO

FOR RESIDENTIAL USE ONLY

READ AND SAVE THESE INSTRUCTIONS



About this Guide

This guide 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

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

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

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CONGRATULATIONS! You have made an excellent choice!

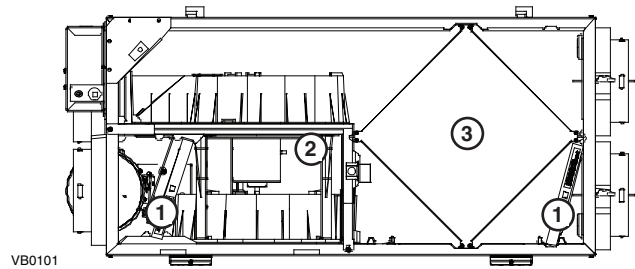
We have prepared this User Guide especially for you. Please read it carefully to ensure that you obtain full benefits from your Energy Recovery Ventilator unit.

CAUTION

1. This unit is intended for residential use only.
2. Some activities create dust or vapors which may damage your unit. You must, therefore, turn off and unplug your unit in the following situations:
 - major renovation work
 - housing construction
 - sanding (e.g. gypsum joints, etc.)
 - varnishing
3. During heavy snowstorms, the unit should also be turned off to avoid problems caused by snow penetration, even if it is equipped with anti-gust intake hood.
4. Power disturbances or very short power failures may cause the electronic control microprocessor to malfunction. If it does, disconnect the power plug from the outlet and wait approximately 30 seconds, then plug it back in to resume operation.
5. At least once a year, the unit mechanical and electric parts should be inspected by qualified service personnel.

1. UNIT DESCRIPTION

- 1. Filters
- 2. Blower assembly
- 3. Energy recovery core



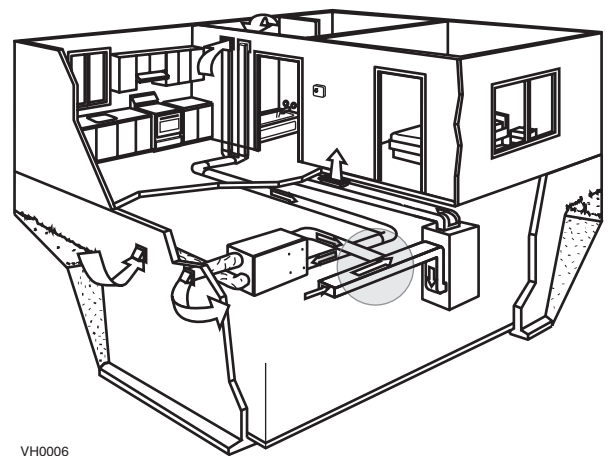
1.1 SPECIFICATIONS

MODEL	CONSTRUCTO 1.5 QUATTRO	CONSTRUCTO 2.0 QUATTRO
WIDTH	34" (864 MM)	34" (864 MM)
HEIGHT	16½" (419 MM)	16½" (419 MM)
DEPTH	17¼" (438 MM)	17¼" (438 MM)
WEIGHT	74 LB (34 KG)	76 LB (35 KG)
ELECTRICAL SUPPLY	120 V, 60 Hz	120 V, 60 Hz
POWER CONSUMPTION	150 W	240 W

2. FUNCTION OF THE ENERGY RECOVERY VENTILATOR

Your ventilation system will help eliminate poor air quality problems by drawing the stale and humid air out of the house and replacing it with fresh outside air. By eliminating accumulated pollutants and humidity, it maintains an optimum air quality and an ideal relative humidity all-year round.

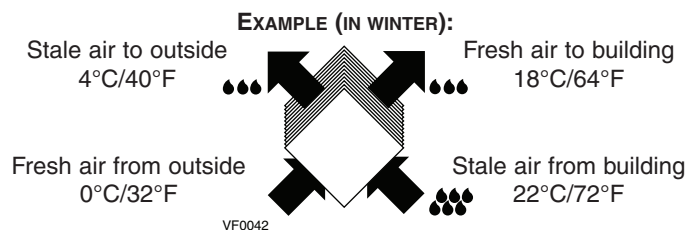
Shown with a forced air heating system; can also operate on its own. Installation may vary.



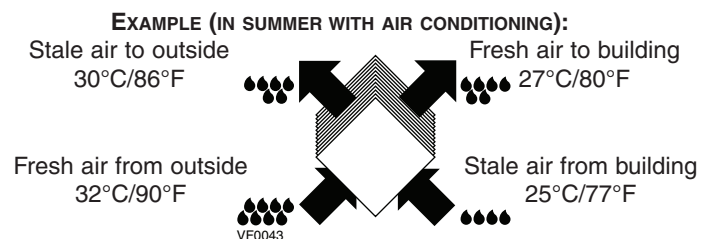
2.1 ENERGY RECOVERY

Units equipped with a heat and humidity recovery core (enthalpic core) can reduce ventilation costs in winter as well as in summer.

During the heating season, the unit draws the humidity and heat from the stale air and transfers them, in part, to the cold air entering the house, thus avoiding dryness problems and providing maximum comfort.



During the cooling season, the unit reverses the process, preventing the humidity from the outside air from entering into the house.



2.2 DEFROSTING

When the outside temperature is below -5°C (23°F), recovery (of heat or energy) creates frost in the core. To maintain its proper operation, the unit is programmed to defrost the recovery core. The defrosting frequency varies according to outside temperature. Defrosting lasts 10 minutes. During the defrost cycle, the unit shifts to maximum speed and the dampers close.

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

3. CONTROLS

3.1 Main Controls

3.1.1 3-POSITION SWITCH

Location: Located on the side of unit.

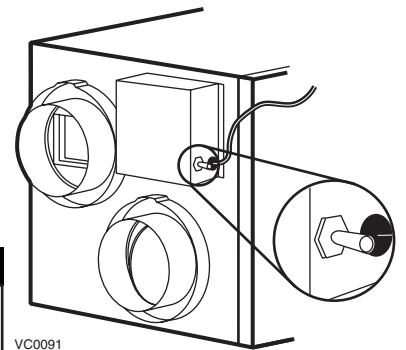
Purpose: To adjust air supply.

How to operate on a daily basis

- Select LOW SPEED for normal daily operation.
- Select HIGH SPEED for excess pollutants and humidity (parties, odors, smoke, etc.).

How to turn the unit off:

Push switch to the REMOTE position.



VC0091

⚠ WARNING

Optional controls can still activate the unit, even when in REMOTE position. You must, therefore, unplug the unit to be absolutely sure it is off.

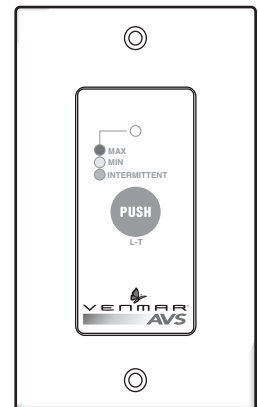
3.1.2 LITE-TOUCH CONSTRUCTO

Location: Located in the busiest area of the house.

Purpose: To adjust air supply and select the desired indoor humidity level.

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 in 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.).



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3. CONTROLS (CONT'D)

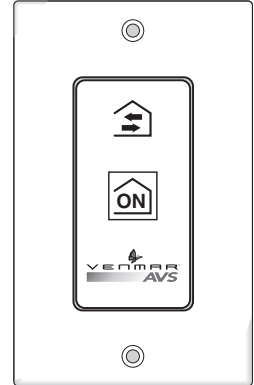
3.2 Auxiliary Controls

3.2.1 20-MINUTE LIGHTED PUSH-BUTTON

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.

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.



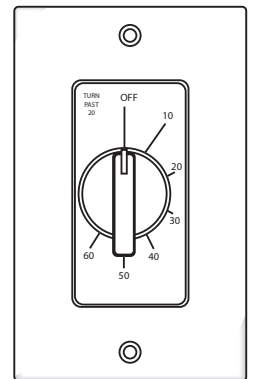
VC0082

3.2.2 60-MINUTE MECHANICAL TIMER

Location: Located in the bathroom or in other locations where temporary humidity excess or pollutants are present.

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

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



VC0017

4. MAINTENANCE

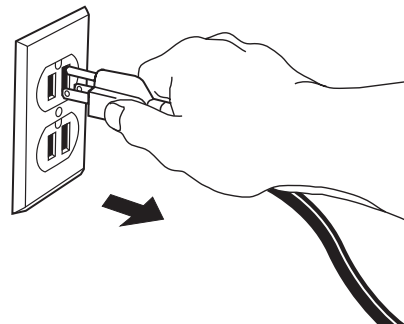
⚠ WARNING

In order to prevent personal injury, turn off the unit and unplug it before performing maintenance. When cleaning the unit, it is recommended to wear safety glasses and gloves.

Regular maintenance should be performed every 3 months. Annual maintenance should also take place every fall.

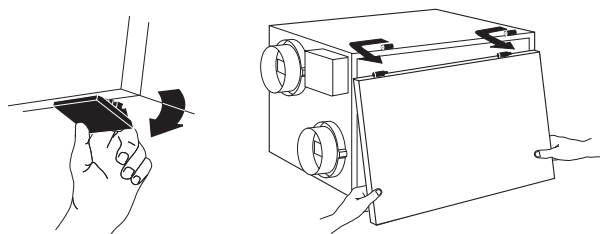
4.1 REGULAR

1. Turn the unit off and disconnect the power supply.



VD0005

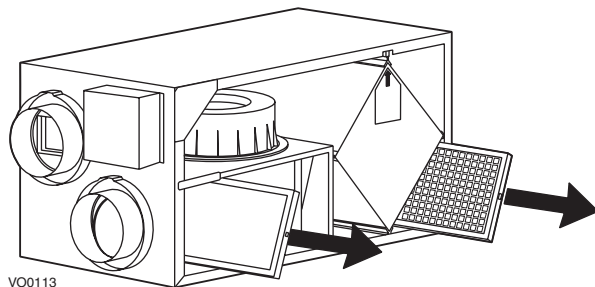
2. Unlatch the door. Lift the panel towards you. Hold it firmly and hit the right side of the panel. The door should slide to the left.
3. Clean the inside of the door with a damp cloth.



VD0144

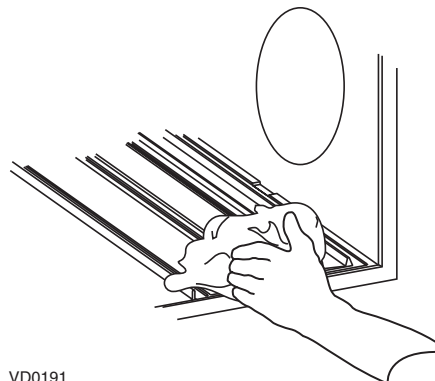
4. Clean the **filters**
 - Remove the filters.
 - Vacuum to remove most of the dust.
 - Wash with a mixture of warm water and mild soap. You may add bleach if you wish to disinfect (one tablespoon per gallon). Rinse thoroughly. Shake filters to remove excess water and let dry.

NOTE: Washing the filters in the top tray of the dishwasher is possible, but the aluminum frame might tarnish.



VO0113

5. Clean the **condensation tray** with a damp cloth.
6. Check the exterior **air intake hood**:
 - Make sure there are no leaves, twigs, ice or snow that could be drawn into the vent.
 - Clean if necessary.



VD0191

CAUTION

Even a partial blocking of this air vent could cause the unit to malfunction.

7. Reassemble the components:
 - Filters
 - Door (The door is secured when you hear a click.)
8. Reconnect the power supply and turn on the unit.

4. MAINTENANCE (CONT'D)

4.2 ANNUAL MAINTENANCE (FALL)

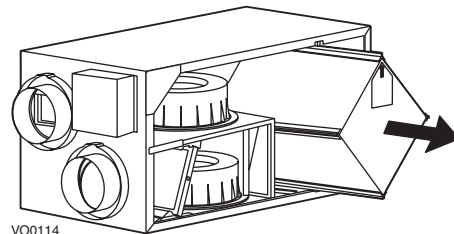
Repeat steps 1 to 6 from the previous section and continue with the following steps:

1. Clean the energy recovery core

CAUTION

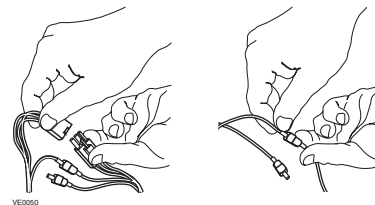
When handling the energy recovery core, it is recommended to wear safety gloves. Handle the energy recovery core with care. The energy recovery core cannot be washed with water.

- Remove the recovery core.
- Remove dust using a vacuum cleaner with a soft brush attachment.



2. Clean the centrifugal fan wheels

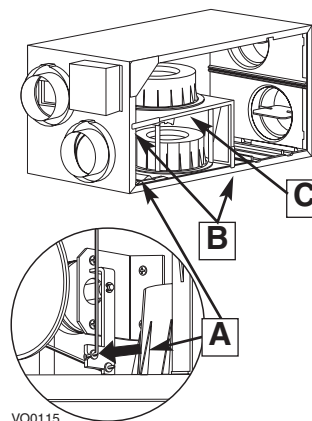
2.1 Disconnect the fan motor wires.



2.2 Disconnect the rod activating the square damper (A).

2.3 Remove both screws (B) securing the fan assembly.

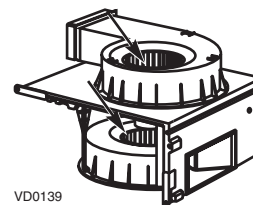
2.4 Pull the fan assembly (C) out of the unit.



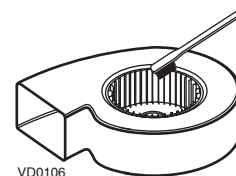
2.5 Check for any dust accumulation on the blades.

CAUTION

Do not oil the motor! It is already permanently lubricated.



2.6 Clean with a small brush if necessary.



3. Put the components back in place:

- Fan assembly (screws, damper rod, fan motor wires)
- Energy recovery core
- Filters
- Door

4. Reconnect the power supply and turn the unit on.

5. TROUBLESHOOTING

If you think your unit is malfunctioning, check some of the following:

	TYPE OF PROBLEM	TRY THIS...
1	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.
2	Condensation on windows (air too humid in wintertime).	<ul style="list-style-type: none">• Operate the unit at maximum speed (MAX.) during activities generating excess humidity (family gatherings, extra cooking, etc.)• 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).
3	Air too dry in winter or too humid in summer.	<ul style="list-style-type: none">• Temporarily switch the Lite-Touch Constructo on Intermittent mode.• Operate the unit at low speed (MIN).• Temporarily use a humidifier in wintertime.• Temporarily use a dehumidifier in summertime.
4	Air too cold at the air supply grille.	<ul style="list-style-type: none">• Make sure the stale air exhaust hood outside the house is not blocked.• Operate the unit at low speed (MIN.)• Have the system's balancing checked.• Have the unit's defrosting system checked.• Install a duct heater.

If the problem continues, contact your installer at the phone number or address listed below or call the following number to find an authorized service center near you:

- **1-800-567-3855**

YOUR INSTALLER'S ADDRESS