

## INSTALLATION GUIDE VÄNEE HRV 60H AND ERV 60H

**Model no.: 41602**  
**(HRV with ports on top)**



**Model no.: 41600**  
**(HRV with ports on sides)**



VB0076

**Model no.: 41606**  
**(ERV with ports on top)**



**Model no.: 41604**  
**(ERV with ports on sides)**



VB0075

RESIDENTIAL USE ONLY

**READ AND SAVE THESE INSTRUCTIONS**



7 72371 08635 7

06010B rev. H

## ABOUT THIS MANUAL

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Because of the large amount of models covered by this publication, the illustrations are typical ones. Some details of your unit may be slightly different than the ones shown.

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**

**Denotes 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 manual and/or the unit, and we would appreciate hearing your comments on ways to better serve you. Please contact us by phone at 1-800-567-3855.

## ABOUT THESE UNITS

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### LIMITATION

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For residential (domestic) installation only. This unit must be installed in accordance with all national and local regulations, building codes and safety codes.

### **WARNING**

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#### **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON(S) OBSERVE THE FOLLOWING:**

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Before servicing or cleaning the unit, disconnect power cord from electrical outlet.
3. This unit is not designed to provide combustion and/or dilution air for fuel-burning appliances.
4. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
5. Do not use this unit with any solid-state speed control device other than following main wall controls: Platinum, Lite-Touch Bronze, Simple-Touch Bronze or Bronze, and no other optional wall controls than 60-minute crank timer and/or 20-minute lighted push button and/or Humidity Control.
6. This unit must be grounded. The power supply cord has a 3-prong grounding plug for your personal safety. It must be plugged into a mating 3-prong grounding receptacle, grounded in accordance with the national electrical code and local codes and ordinances. Do not remove the ground prong. Do not use an extension cord.
7. Do not install in a cooking area or connect directly to any appliances.
8. Do not use to exhaust hazardous or explosive materials and vapors.
9. When performing installation, servicing or cleaning these units, it is recommended to wear safety glasses and gloves.
10. Due to the weight of the unit, two installers are recommended to perform installation.
11. When the federal, provincial or state legislation comprises more restrictive installation and/or certification requirements, the aforementioned requirements prevail on those of this document and the installer agrees to conform to these at his own expenses.

### **CAUTION**

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1. To avoid premature clogged filters, turn OFF the unit during construction or renovation.
2. Please read specification label on product for further information and requirements.
3. Be sure to duct air outside – Do not intake / exhaust air into spaces within walls or ceiling or into attics, crawl spaces, or garage.
4. Intended for residential installation only in accordance with the requirements of NFPA 90B (for a unit installed in U.S.A.) or Part 9 of the National Building Code of Canada (for a unit installed in Canada).
5. Do not run any air ducts directly above or closer than 2 ft (0.61 m) to any furnace or its supply plenum, boiler, or other heat producing appliance. If a duct has to be connected to the furnace return plenum, it must be connected not closer than 9'10" (3 m) from this plenum connection to the furnace.
6. The ductwork is intended to be installed in compliance with all local and national codes that are applicable.
7. 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.
8. If the ductwork passes 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).

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## 1. TYPICAL INSTALLATIONS

Installations may vary according to the type of unit and the ports configuration (top or sides). Use the following illustrations as guidelines to help you decide on how the unit will be installed.

All the units should be hung from the joists.

In every case, bathroom fans and a range hood should be used to exhaust stale air. Also, for homes with more than one level, we recommend one exhaust register at the highest level.

There are 3 installation methods: Fully ducted, Central Draw Point and Simplified Installation.

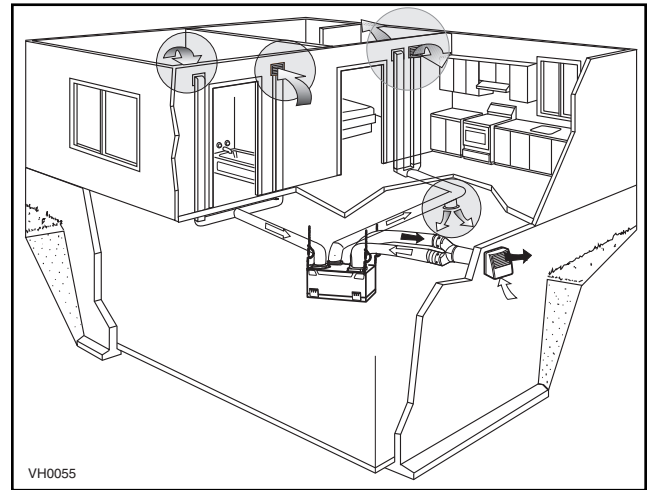
NOTE: An electrical outlet has to be available within 3 feet of the unit.

### 1.1 FULLY DUCTED SYSTEM (PRIMARYLY FOR HOMES WITH RADIANT HOT WATER OR ELECTRIC BASEBOARD HEATING.)

Stale air coming from the registers located at the highest level of the house is exhausted to the outside. Fresh air from outside is filtered and supplied by the register located in the lowest liveable level.

Homes with more than one level require at least one exhaust register at the highest level.

See figure at right.

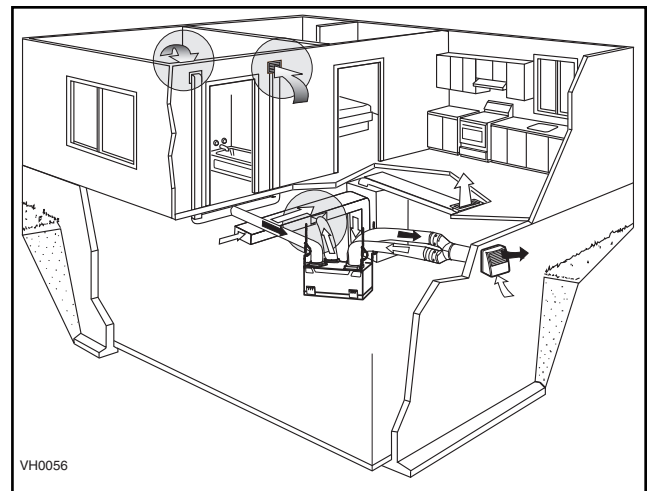


### 1.2 CENTRAL DRAW POINT (CONNECTION TO A FORCED AIR SYSTEM.)

Stale air coming from the registers located at the highest level of the house is exhausted to the outside. Fresh air from outside is filtered and supplied to the return (plenum) or the supply duct of the forced air unit. See figure at right.

For this type of installation, it is not essential that the forced air system blower runs when the unit is in operation, but we recommend it.

NOTE: Home with multiple forced air systems should have one unit on each system.

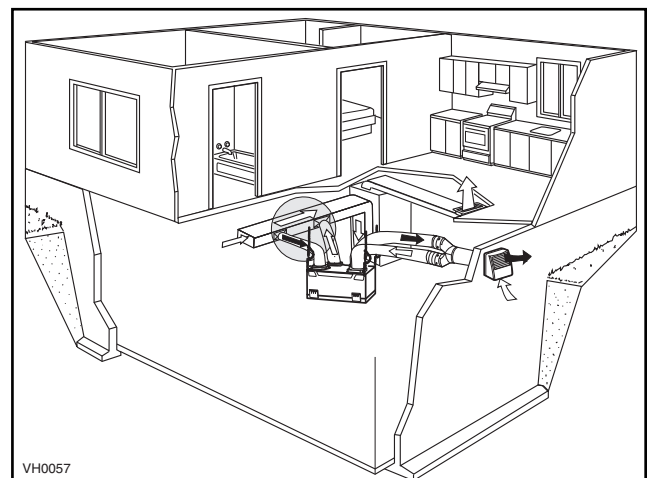


### 1.3 SIMPLIFIED INSTALLATION (CONNECTION TO A FORCED AIR SYSTEM)

Stale air is exhausted to the outside. Fresh air from outside is filtered and supplied to the return (plenum) or the supply duct of the forced air unit. See figure at right.

To avoid cross-contamination and achieve the highest efficiencies, the forced air system blower must always be ON.

NOTE: Home with multiple forced air systems should have one unit on each system.



## 1. TYPICAL INSTALLATIONS (CONT'D)

### 1.4 ATTIC INSTALLATION FOR ERV UNITS ONLY

All 3 types of installations can be used in the attic (Fully ducted system, Central Draw Point or Simplified). The example shown below is a Simplified installation (connection to a forced air system).

#### CAUTION

Due to the potential temperature difference between the attic and the rest of the house, all unit ducts must be insulated.

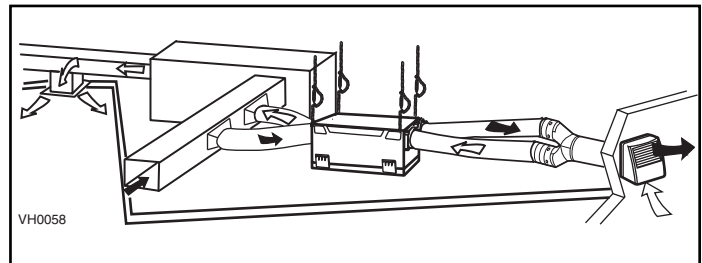
#### CAUTION

The attic temperature must always be above 0°C (32°F).

Stale air is exhausted to the outside. Fresh air from outside is filtered and supplied to the return (plenum) of the forced air unit. See figure at right.

To avoid cross-contamination and achieve the highest efficiencies, the forced air system blower must always be ON.

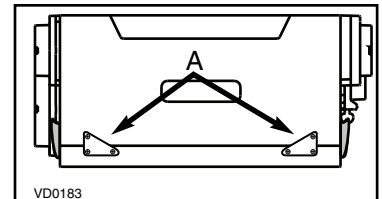
NOTE: Home with multiple forced air systems should have 1 unit on each system.



## 2. INSTALLATION

### 2.1 INSPECT THE CONTENTS OF THE BOX

- Inspect the exterior of the unit for shipping damage. Ensure that there is no damage to the door, door latches, power cord, etc.
- Remove and discard the 2 transport brackets (A) and open the door. Discard the styrofoam fillers (ERV units only) and remove the hardware kit from the unit. Inspect the interior of the unit for damage. Ensure that heat or energy recovery core, core filters, insulation, dampers, etc. are all intact.



### 2.2 LOCATING THE UNIT

Choose an appropriate location for the unit.

- Within an area of the house where the ambient temperature is between 10°C (50°F) and 65°C (149°F) (basement, furnace room, closet, etc.).
- So as to provide easy access to the interior of the unit, for maintenance.
- Close to an exterior wall, so as to limit the length of the insulated flexible duct to and from the unit.
- Away from hot chimneys and other fire hazards.
- Allow for a power source (standard 3-prong grounding outlet).
- For HRV units ONLY: Close to a drain. If no drain is close by, use a pail to collect run-off.

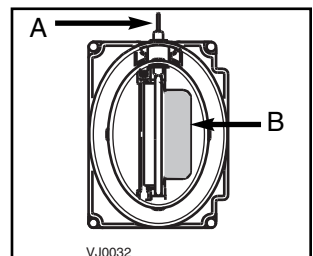
### 2.3 UNIT PREPARATION

Both HRV and ERV units are equipped with 2 ports having integrated balancing damper. Turn the thumb screw (A) **clockwise** to manually open and adjust the damper (B).

**HRV UNITS:** Set the Fresh air to building port to wide open position, and adjust the Exhaust air to outside port to 3rd notch.

NOTE: If the unit need to be balanced, adjust the damper of the Exhaust air to outside port to wide open position. See *Section 6*.

**ERV UNITS:** Set both Fresh air to building port and Exhaust air to outside port to wide open position.

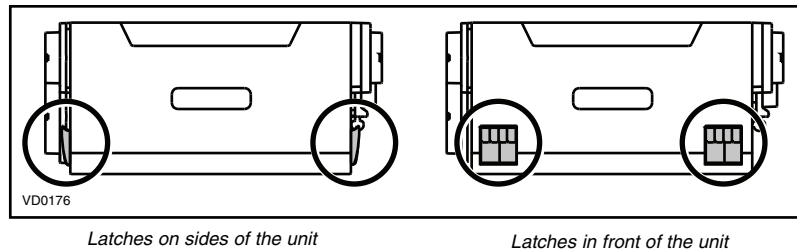


Port with integrated balancing damper - Top view

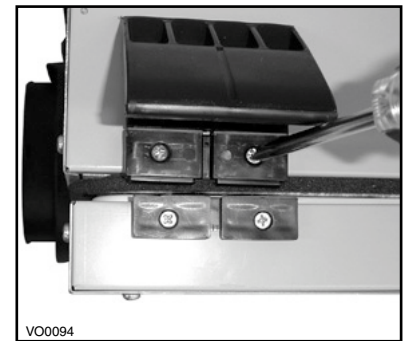
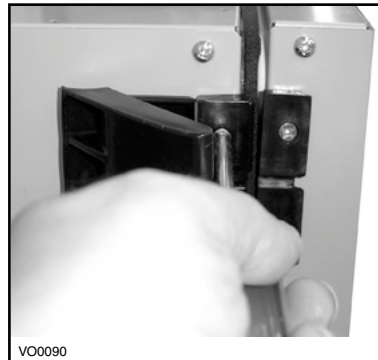
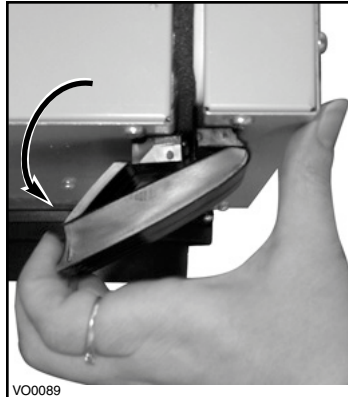
## 2. INSTALLATION (CONT'D)

### 2.3 UNIT PREPARATION (CONT'D)

The door latches location can be changed from sides to front of the unit, according to the installation needs.



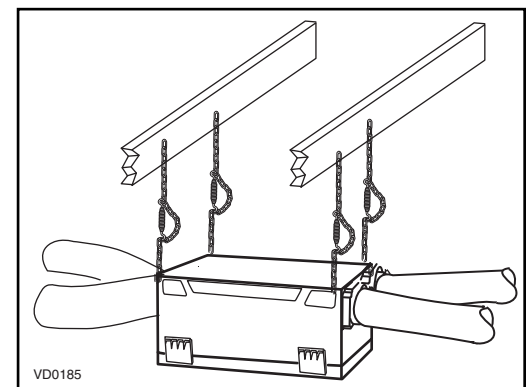
To do so, turn the unit upside down. Open the latches and unscrew them from the unit. Install the latches on their new locations.



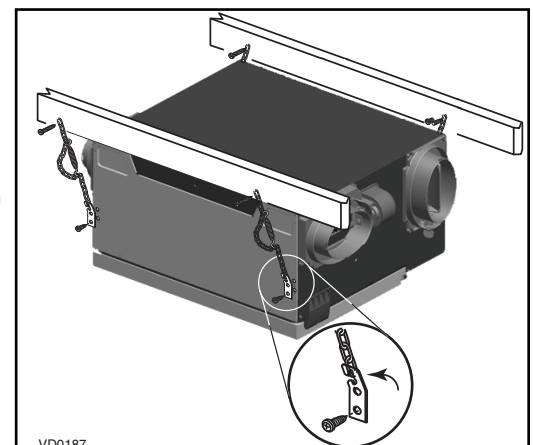
### 2.4 HOW TO HANG THE UNIT

Hang the unit with the 4 chains, hooks and springs provided.

**CAUTION**  
Make sure the unit is level.



If there is not enough space on top of the unit, slightly bend the hooks and install them lower on the unit. See figure beside.



## 2. INSTALLATION (CONT'D)

### 2.5 PLANNING OF THE DUCTWORK

- Keep it simple. Plan for a minimum of bends and joints.
- Keep the length of insulated ducts to a minimum.
- Do not ventilate crawl spaces or cold rooms. Do not attempt to recover the exhaust air from a dryer or a range hood. This would cause clogging of the filters and recovery module.
- If the house has two floors or more, be sure to plan for at least one exhaust register on the highest lived-in level.

### 2.6 INSTALLING THE DUCTWORK AND REGISTERS

#### ⚠ WARNING

**Never install a stale air exhaust register in a closed room where a combustion device operates, such as a gas furnace, a gas water heater or a fireplace.**

#### 2.6.1 FULLY DUCTED SYSTEM (AS ILLUSTRATED IN SECTION 1.1)

##### Stale air exhaust ductwork:

- Install the stale air exhaust registers where the contaminants are produced: Kitchen, living room, etc. Position the registers as far from the stairway as possible and in such a way that the air circulates in all the lived-in spaces in the house.
- If a register is installed in the kitchen, it must be located at least 4 feet (1.2 m) from the range.
- Install the registers 6 to 12 inches (152 to 305 mm) from the ceiling on an interior wall OR install them in the ceiling.

##### Fresh air distribution ductwork:

- Install the fresh air distribution registers in bedrooms, dining rooms, living room and basement.
- Keep in mind that the fresh air registers must be located as far as possible from the stale air registers.
- Install the registers in the ceiling OR 6 to 12 inches (152 to 305 mm) from the ceiling on an interior wall. The duct length should be at least 15' (4.6 m). (The fresh air will then flow through the room and mix with room air, ensuring a continuous renewed airflow.)
- If a register must be floor installed, direct the airflow up the wall.

#### 2.6.2 CENTRAL DRAW POINT SYSTEM (AS ILLUSTRATED IN SECTION 1.2)

##### Stale air exhaust ductwork:

Same as for Fully Ducted System, described on point 2.6.1)

##### Fresh air distribution ductwork:

#### ⚠ WARNING

**When performing duct connections, always use approved tools and materials. Respect all corresponding laws and safety regulations. Please refer to your local building code.**

#### CAUTION

**When performing duct connections to the furnace supply duct, this duct must be sized to support the additional airflow produced by the HRV/ERV. Also, use a steel duct.**

There are 2 methods for connecting the unit to the furnace/air handler:

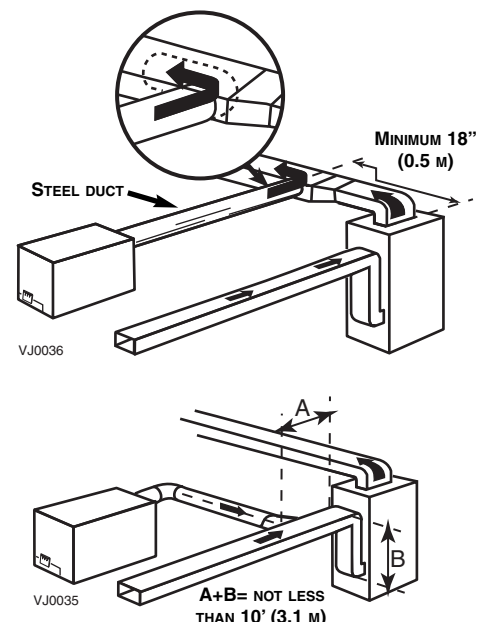
##### Method 1: Supply side connection

- Cut an opening into the furnace supply duct at least 18 inches (0.5 m) from the furnace/air handler.
- Connect this opening to the **Fresh air to building** port of the HRV/ERV (use **steel duct**, see figure beside).
- Make sure the HRV/ERV duct form an elbow inside the furnace/air handler ductwork.
- If desired, interlock (synchronize) the furnace/air handler blower operation (see Section 4).

##### Method 2: Return side connection

- Cut an opening into the furnace return duct not less than 10 feet (3.1 m) from the furnace/air handler (A+B).
- Connect this opening to the **Fresh air to building** port of the HRV/ERV (see figure beside).

NOTE: For Method 2, it is not essential that the furnace/air handler runs when the unit is operation, but we recommend it. If desired, interlock (synchronize) the furnace/air handler blower operation (see Section 4).





## 2. INSTALLATION (CONT'D)

### 2.6 INSTALLING THE DUCTWORK AND REGISTERS (CONT'D)

#### 2.6.3 SIMPLIFIED INSTALLATION (AS ILLUSTRATED IN SECTION 1.3)

#### ⚠ WARNING

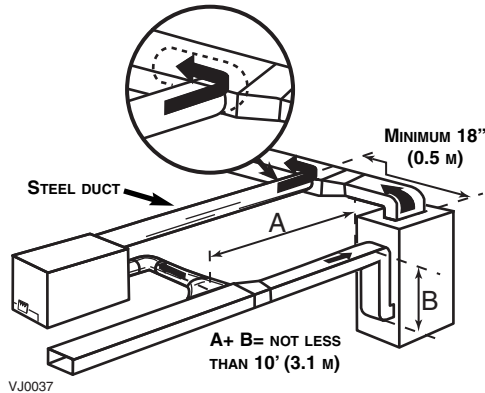
When performing duct connections, always use approved tools and materials. Respect all corresponding laws and/or safety regulations. Please refer to your local building code.

#### CAUTION

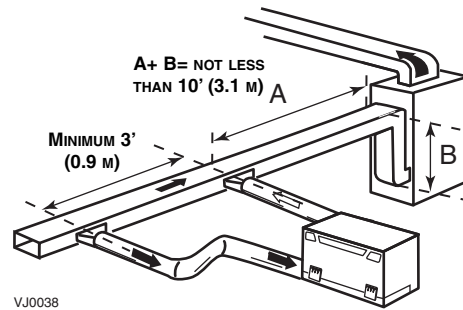
When performing duct connections to the furnace supply duct, this duct must be sized to support the additional airflow produced by the HRV/ERV. Also, use a steel duct. For a Return-Return installation, the furnace blower must be in operation when the HRV/ERV is in operation.

There are 2 methods for connecting the unit to the furnace/air handler:

##### Method 1: Supply-return connection



##### Method 2: Return-return without



##### Stale air intake:

- Cut an opening into the furnace/air handler return duct not less than 10 feet (3.1 m) from the furnace/air handler (A+ B).
- Connect this opening to the **Exhaust air from building** port of the HRV/ERV.

##### Fresh air distribution:

- Same instructions as for Method 1 or Method 2, Section 2.6.2.

For Method 2 (Return-return), make sure there is a distance of at least 3 feet (0.9 m) between the 2 connections to the furnace/air handler.

NOTE: For Method 1, it is not essential to synchronize the furnace blower operation with the unit operation, but we recommend it.

#### CAUTION

If using Method 2, make sure the furnace/air handler blower operation is synchronized with the unit operation! See **Section 4**.



## 2. INSTALLATION (CONT'D)

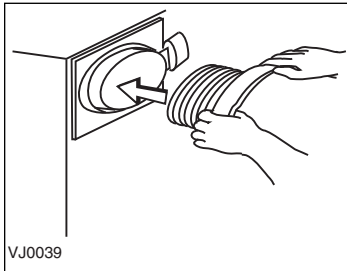
### 2.7 CONNECTING THE DUCTS TO THE UNIT

#### Insulated flexible ducts:

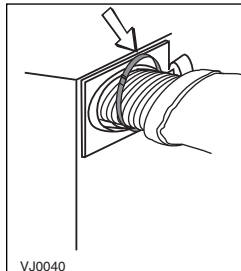
Use the following procedure for connecting the insulated flexible ducts to the port of the unit (*Exhaust air to outside* and *Fresh air from outside* ports).

#### CAUTION

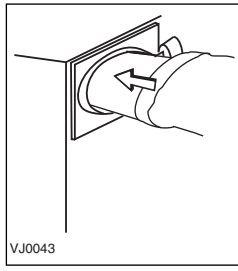
**Make sure the balancing dampers are set to their appropriate position before connecting the ducts to the ports. See Section 2.3.**



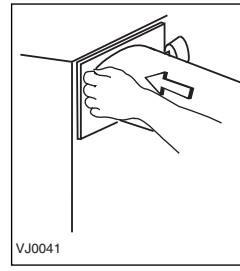
Pull back the insulation to expose the flexible duct.



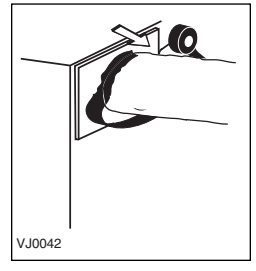
Attach the flexible duct to the port using tie wrap.



Pull the insulation over the joint and tuck in between the inner and outer rings of the double collar.



Pull the vapor barrier over the insulation and over the outer ring of the double collar.



Apply duct tape to the joint making an airtight seal. Avoid compressing the insulation when pulling the tape tightly around the joint. Compressed insulation loses its R value and causes water dripping due to condensation on the exterior surface of the duct.

#### CAUTION

**Make sure the vapor barrier on the insulated ducts does not tear during installation to avoid condensation within the ducts.**

#### Rigid ducts

#### CAUTION

**Do not use screws to connect the rigid ducts to the ports.**

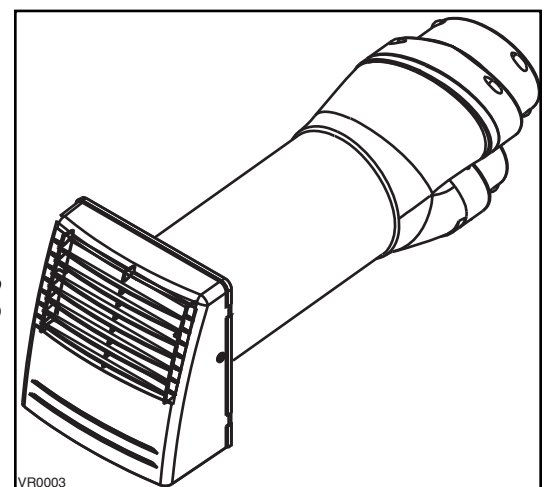
Use a small length of flexible duct to connect the rigid duct to the ports in order to avoid vibration transmissions. Use tie-wraps to perform connections.

### 2.8 INSTALLING THE TANDEM® TRANSITION\* KIT

The joist opening needed to install the Tandem® transition must be 9¾" minimum. The maximum height of the Tandem® transition is 8¾".

To connect the insulated flexible ducts to the Tandem® transition (*Exhaust air to outside* and *Fresh air from outside*), follow the instructions included with the Tandem® transition kit (part no.14690).

\*Patent Pending.



VR0003  
Tandem® transition kit

**NOTE:** If the joist are perpendicular to the ducts, or if the connection to the exterior hood is in a limited area, the installation will need 2 exterior hoods instead of one. See next Section 2.9 INSTALLING 2 EXTERIOR HOODS.

## 2. INSTALLATION (CONT'D)

### 2.9 INSTALLING 2 EXTERIOR HOODS

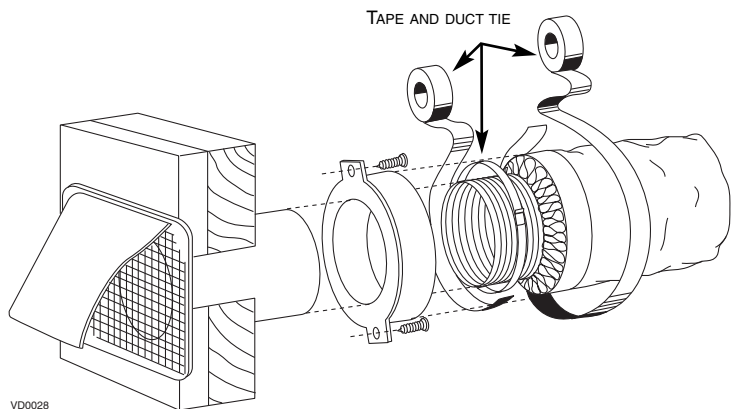
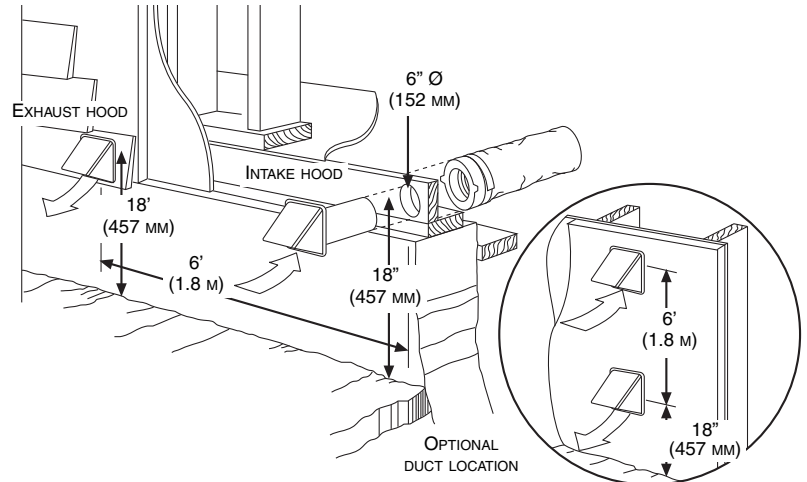
Choose an appropriate location to install the exterior hoods:

- There must be a minimum distance of 6' (1.8 m) between the hoods to avoid cross-contamination
- There must be a minimum distance of 18" (457 mm) from the ground

Make sure the intake hood is at least 6' (1.8 m) away from the following:

- Dryer exhaust, high efficiency furnace vent, central vacuum vent
- Gas meter exhaust, gas barbecue grill
- Any exhaust from a combustion source
- Garbage bin and any other sources of contamination

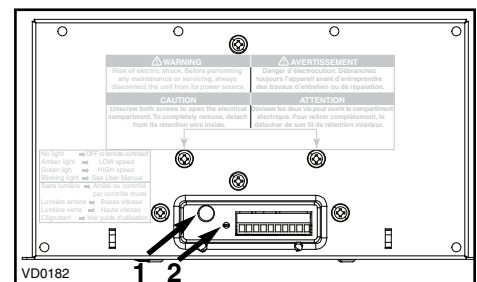
Refer to figure below for connecting insulated ducts to the exterior hoods. An "Anti-gust intake hood" should be installed in regions where a lot of snow is expected to fall.



## 3. CONTROLS

### 3.1 INTEGRATED CONTROL

All units are equipped with an integrated control, located under the unit, in front of the electrical compartment. Use the push button (1) to control the unit. The LED (2) will then show on which mode the unit is in.



Refer to table beside to see how to operate the unit using its integrated control.

| PRESS ON PUSH BUTTON | LED COLOR | RESULTS               |
|----------------------|-----------|-----------------------|
| ONCE                 | AMBER     | UNIT IS ON LOW SPEED  |
| TWICE                | GREEN     | UNIT IS ON HIGH SPEED |
| THREE TIMES          | NO LIGHT  | UNIT IS OFF           |

If a problem occurs during the unit operation, its integrated control LED (2) will blink. The color of the blinking light depends on the type of error detected. Refer to *Section 9 Troubleshooting* on page 17 for further details.

#### 3.1.1 BOOT SEQUENCE

The unit boot sequence is similar to a personal computer boot sequence. Each time the unit is plugged after being unplugged, or after a power failure, the unit will perform a 30-second booting sequence before starting to operate. During the booting sequence, the integrated control LED will light GREEN or AMBER for 5 seconds, and then will shut off for 2 seconds. After that, the LED will light RED for the rest of the booting sequence. During this RED light phase, the unit is checking and resetting the motorized damper position. Once the motorized damper position completely set, the RED light turns off and the booting sequence is done.

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

### 3. CONTROLS (CONT'D)

#### 3.2 ELECTRICAL CONNECTION TO OPTIONAL WALL CONTROLS

For more convenience, this unit can also be controlled using an optional main wall control.

NOTES: 1. The integrated control must be turned OFF to use an optional main control.

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

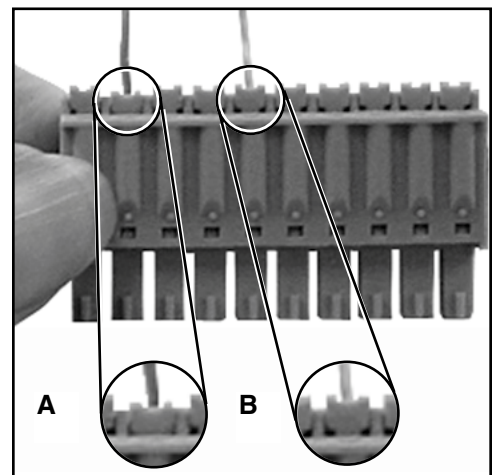
#### ⚠ WARNING

Always disconnect the unit before making any connections. Failure in disconnecting power could result in electrical shock or damage of the wall control or electronic module inside the unit.

#### CAUTION

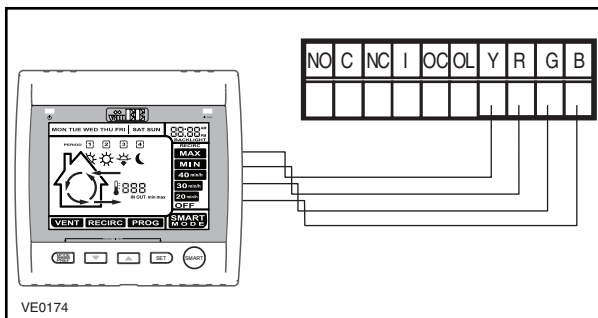
Never install more than one optional main wall control per unit. Make sure that the wires do not short-circuit between themselves or by touching any other components on the wall control. Avoid poor wiring connections. To reduce electrical interference (noise) potential, do not run wall control wiring next to control contactors or near light dimming circuits, electrical motors, dwelling/building power or lighting wiring, or power distribution panel.

Use the terminal connector included in the installation kit to perform the electrical connection for main and optional wall controls. Check if all wires are correctly inserted in their corresponding holes in the terminal block. (A wire is correctly inserted when its orange receptacle is lower than another one without wire. On picture beside, wire **A** is correctly inserted, but not wire **B**.)

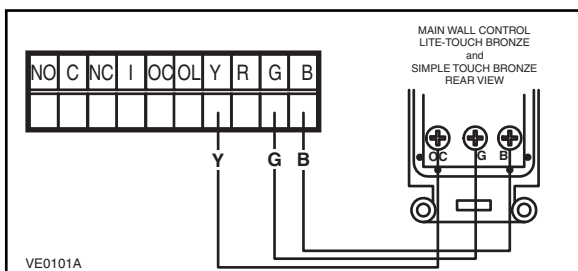


VE0106

#### 3.2.1 ELECTRICAL CONNECTION TO PLATINUM MAIN WALL CONTROL

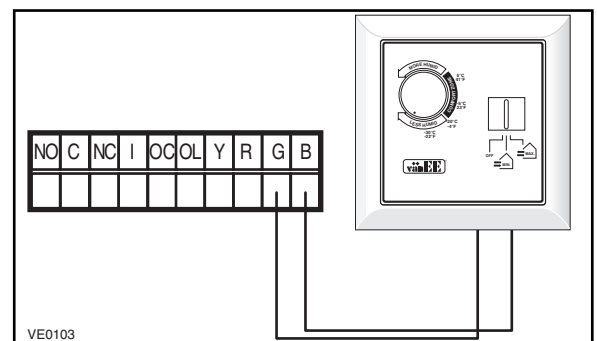


#### 3.2.2 ELECTRICAL CONNECTION TO LITE-TOUCH BRONZE OR SIMPLE-TOUCH BRONZE MAIN WALL CONTROLS



VE0101A

#### 3.2.3 ELECTRICAL CONNECTION TO BRONZE MAIN WALL CONTROL



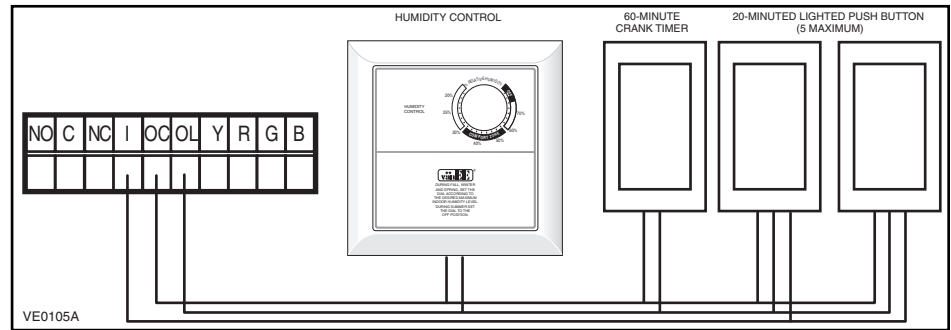
VE0103

### 3. CONTROLS (CONT'D)

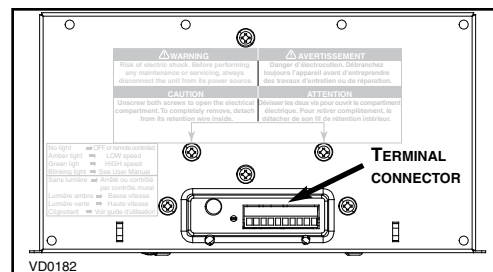
#### 3.2 ELECTRICAL CONNECTION TO OPTIONAL WALL CONTROLS (CONT'D)

##### 3.2.4 ELECTRICAL CONNECTION TO OPTIONAL AUXILIARY WALL CONTROLS

NOTE: If an optional auxiliary wall control is activated and then, the Humidity Control is being activated, this one will override the auxiliary wall control commands.



Once the wall control(s) connections have been made, insert the terminal connector in the bottom of the unit, on the electrical compartment front face.



NOTE: For information about the operation of the wall controls, refer to the user guide.

### 4. ELECTRICAL CONNECTION TO THE FURNACE

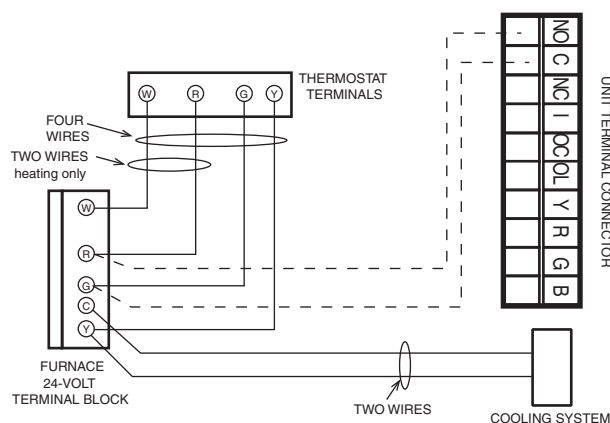
#### ⚠ WARNING

Never connect a 120-volt AC circuit to the terminals of the furnace interlock (standard wiring). Only use the low voltage class 2 circuit of the furnace blower control.

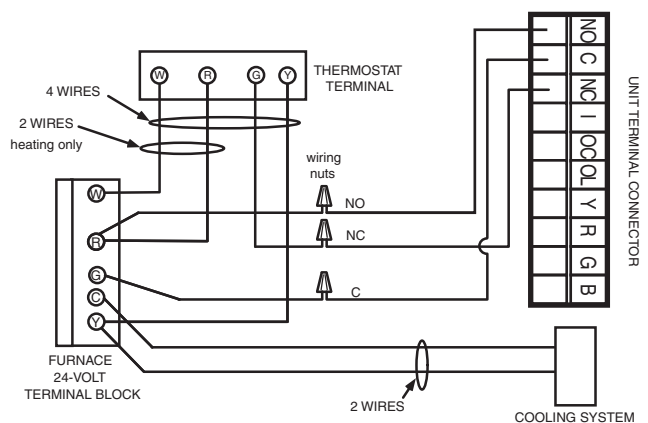
#### For a furnace connected to a cooling system:

On some older thermostats, energizing the “R” and “G” terminals at the furnace has the effect of energizing “Y” at the thermostat and thereby turning on the cooling system. If you identify this type of thermostat, you must use the ALTERNATE FURNACE INTERLOCK WIRING.

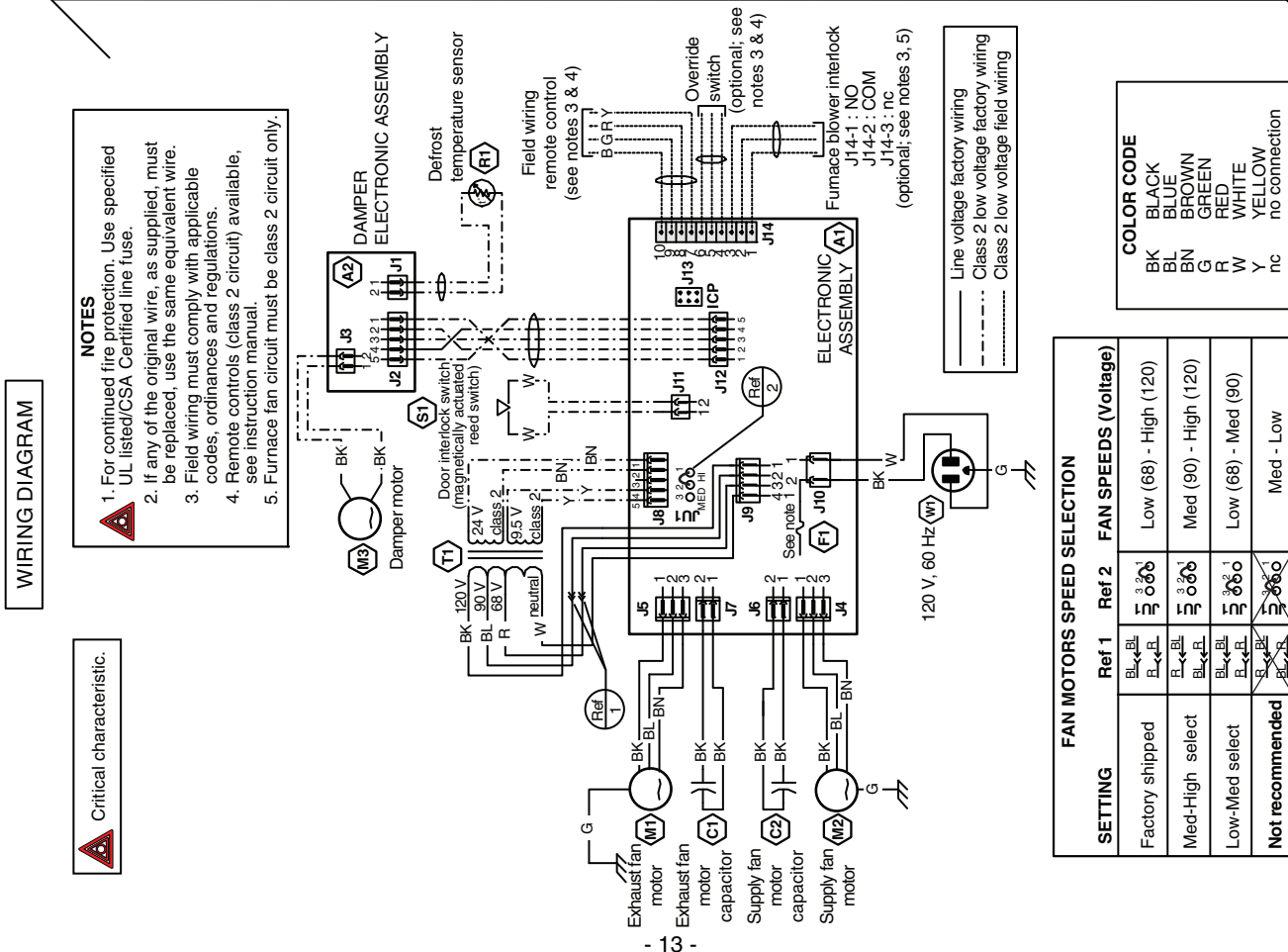
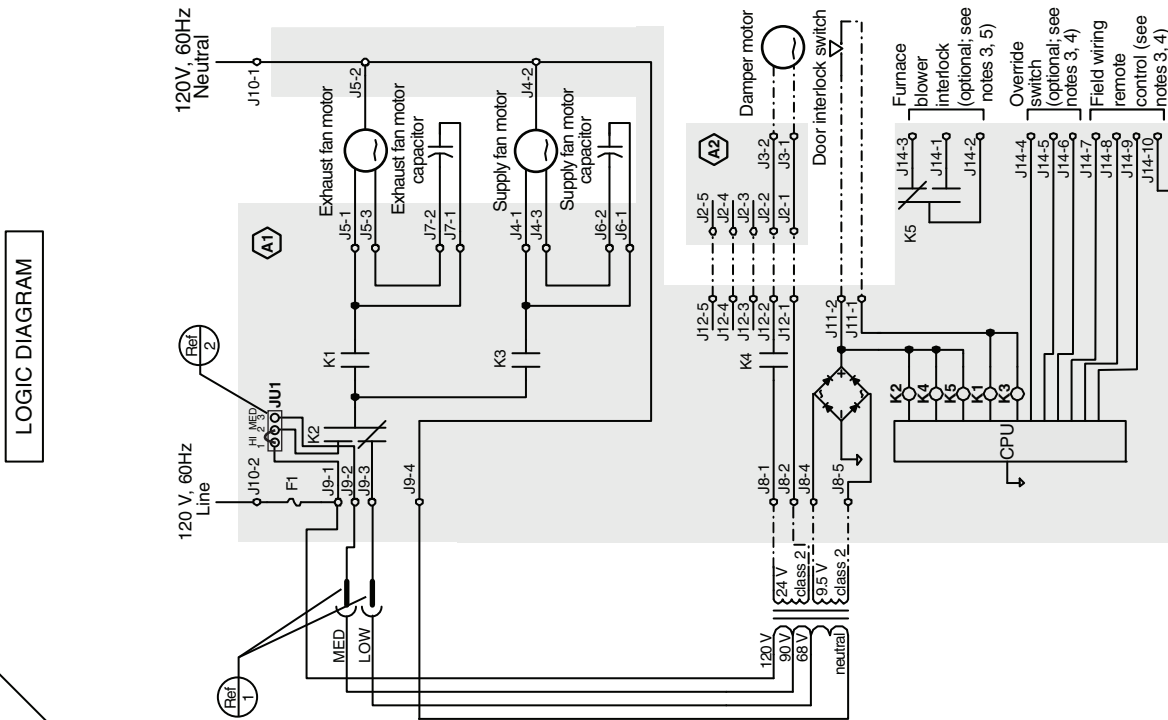
#### STANDARD FURNACE INTERLOCK WIRING



#### ALTERNATE FURNACE INTERLOCK WIRING



|                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>⚠ WARNING</b>                                                                                                                                                                                       |
| <b>Risk of electrical shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source.</b>                                                                    |
| <b>CAUTION</b>                                                                                                                                                                                         |
| <b>Never change both Ref 1 and Ref 2 configurations, only one configuration can be changed at the same time. If Ref 1 and Ref 2 configurations are changed, Medium and Low speed will be reversed.</b> |



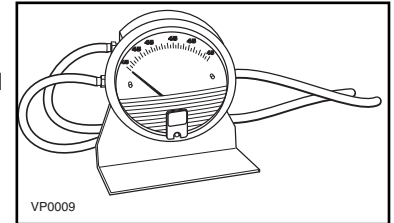
## 6. BALANCING THE UNIT

To avoid balancing, the difference between stale air ducts total length and fresh air ducts total length must not exceed 50 ft. However, even if the stale air ducts and fresh air ducts lengths are almost equal, your local building codes may require balancing the unit.

If the unit does not need to be balanced, shut all the pressure taps (located on the unit door) with the small plastic plugs included in the hardware kit.

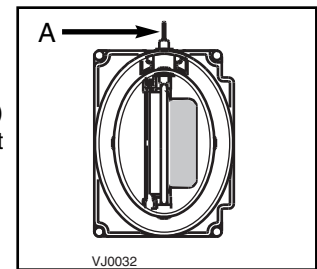
### 6.1 WHAT YOU NEED TO BALANCE THE UNIT

- A magnehelic gauge capable of measuring 0 to 0.5 inch of water (0 to 125 Pa) and 2 plastic tubes.
- The balancing chart located on the unit door.



### 6.2 PRELIMINARY STAGES TO BALANCE THE UNIT

- Seal all the unit ductwork with tape. Close all windows and doors.
- Turn off all exhaust devices such as range hood, dryer and bathroom fans.
- Make sure the integrated balancing dampers are **fully open**. Turn the thumb screw (A) **clockwise** to manually open the dampers. Both are located on the Exhaust air to outside port and on Fresh air to building port.
- Make sure all filters are clean (if it is not the first time you balance the unit).



Port with integrated balancing damper - Top view

### 6.3 BALANCING PROCEDURE

#### 1. Set the unit to high speed.

Make sure that the furnace/air handler blower is ON if the installation is in any way connected to the ductwork of the cold air return. If not, leave furnace/air handler blower OFF. If the outside temperature is below 0°C / 32°F, make sure the unit is not running in defrost while balancing. (By waiting 10 minutes after plugging the unit in, you are assured that the unit is not in a defrost cycle.)

#### 2. Place the magnehelic gauge on a level surface and adjust it to zero.

#### 3. Connect tubing from gauge to EXHAUST air flow pressure taps (see diagram beside).

Be sure to connect the tubes to their appropriate *high/low* fittings. If the gauge drops below zero, reverse the tubing connections.

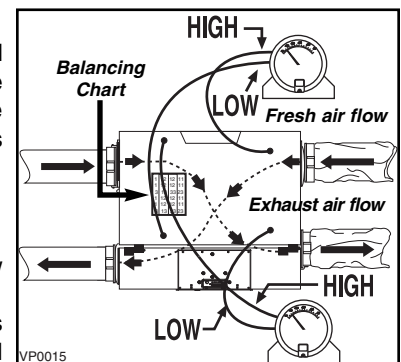
NOTE: It is suggested to start with the exhaust air flow reading because the exhaust has typically more restriction than the fresh air, especially in cases of fully ducted installations or source point ventilation. Place the magnehelic gauge upright and level. Record equivalent AIR FLOW of the reading according to the balancing chart.

#### 4. Move tubing to FRESH air flow pressure taps (see diagram). Adjust the fresh air balancing damper until the fresh air flow is approximately the same as the EXHAUST air flow. If fresh air flow is less than exhaust air flow, then go back and adjust the exhaust balancing damper to equal the fresh air flow.

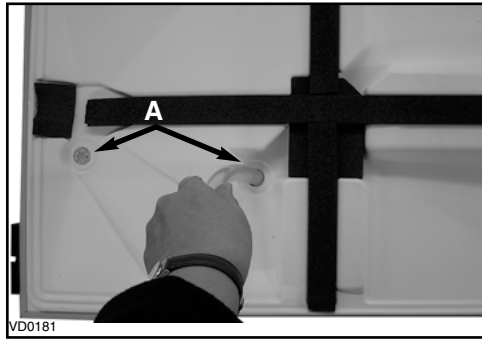
#### 5. Secure both dampers thumb screw in place with tape.

#### 6. Write the required air flow information on a label and stick it near the unit for future reference (date, maximum speed air flows, your name, phone number and business address).

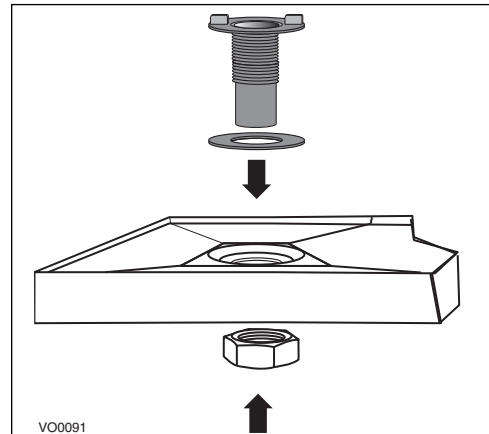
NOTE: The unit is considered balanced even if there is a difference of  $\pm 10$  cfm (or  $\pm 5$  l/s or  $17$  m<sup>3</sup>/h) between the two air flows.



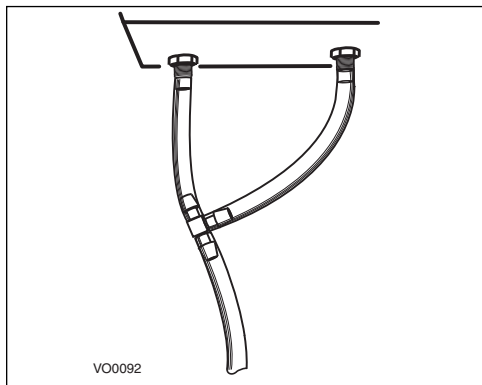
## 7. CONNECTING THE DRAIN (HRV UNITS ONLY)



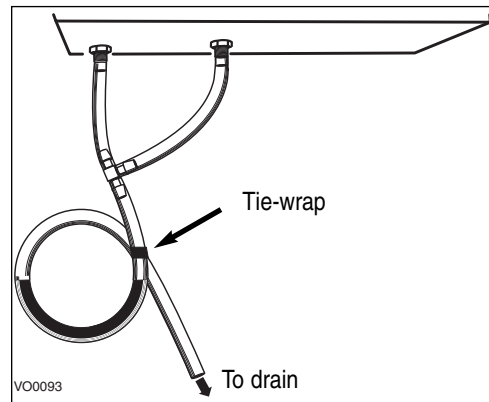
From the inner side of the unit door, using the provided drain tube, punch out both drain holes (A).



In order to keep the drain pan intact, hand tighten the 2 plastic drain fittings to the unit door using the gaskets and nuts as shown.



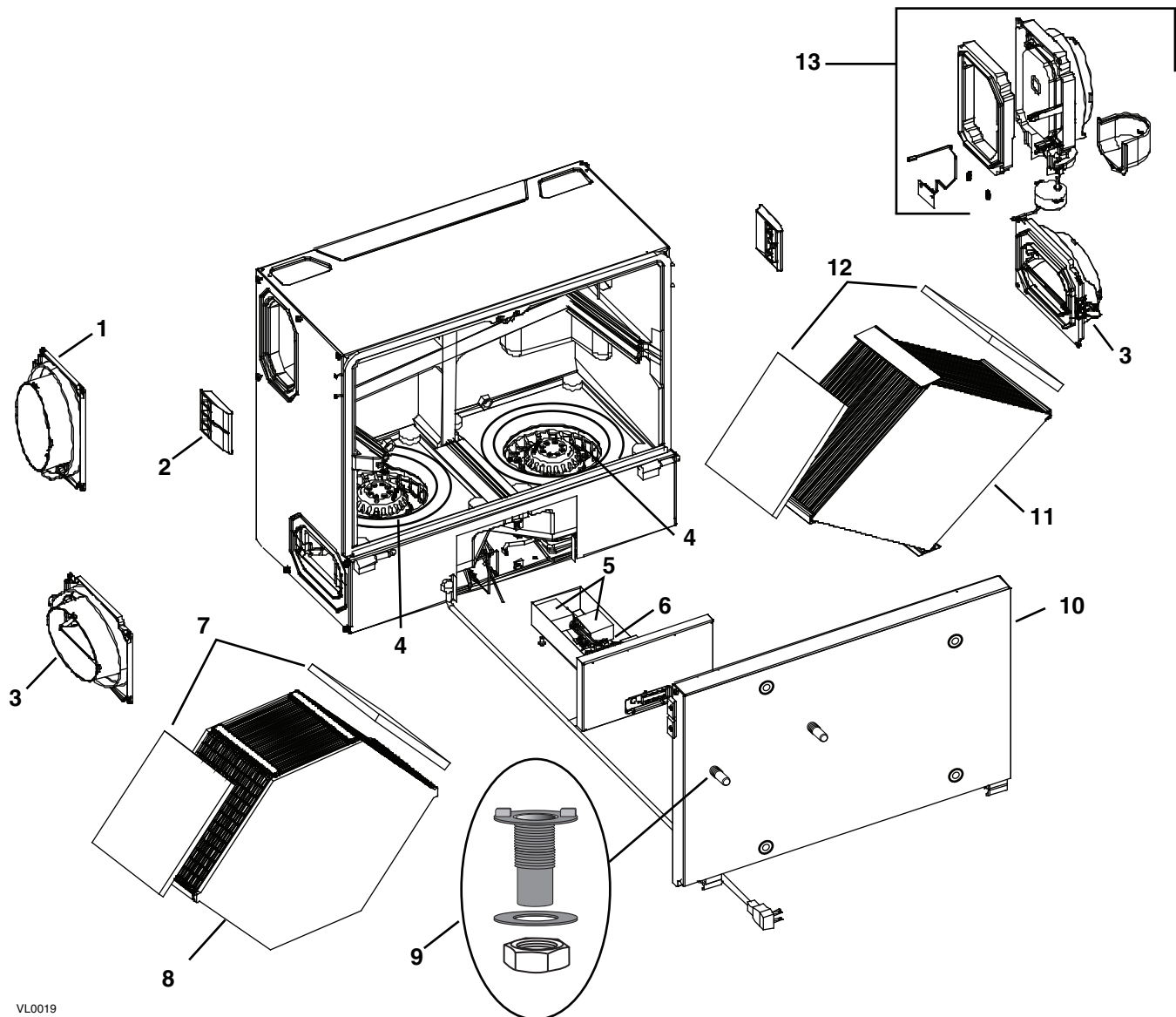
Cut 2 sections of plastic tubing, about 12" long and attach them to each drain fitting. Join the 2 short sections to the "T" junction and main tube as shown.



Make a water trap loop in the tube to prevent the unit from drawing unpleasant odors from the drain source. Make sure this loop is situated **BELOW** the "T" as shown. This will prevent water from being drawn back up into the unit in case of negative pressure. Run the tube to the floor drain or to an alternative drain pipe or pail. Be sure there is a slight slope for the run-off.



## 8. SERVICE PARTS



VL0019

| REF. No. | DESCRIPTION                                                                          | PART NUMBER             | 41600 HRV<br>PORTS ON SIDES | 41602 HRV<br>PORTS ON TOP | 41604 ERV<br>PORTS ON SIDES | 41606 ERV<br>PORTS ON TOP |
|----------|--------------------------------------------------------------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| 1        | OVAL PORT (FITS 5" DIAMETER DUCTS)                                                   | 16040                   | 1                           | 1                         | 1                           | 1                         |
| 2        | DOOR LATCH WITH SCREWS                                                               | 16035                   | 2                           | 2                         | 2                           | 2                         |
| 3        | OVAL PORT WITH INTEGRATED BALANCING DAMPER                                           | 16041                   | 2                           | 2                         | 2                           | 2                         |
| 4        | MOTOR & WHEEL ASSEMBLY (MOTOR CAPACITOR AND INLET RING INCLUDED)                     | 16024                   | 2                           | 2                         | 2                           | 2                         |
| 5        | CAPACITOR 3 $\mu$ F** (2)<br>CAPACITOR 5 $\mu$ F** (2)<br>CAPACITOR 7 $\mu$ F ** (2) | 17024<br>16042<br>16027 | 1                           | 1                         | 1                           | 1                         |
| 6        | ELECTRONIC BOARD                                                                     | 16038                   | 1                           | 1                         | 1                           | 1                         |
| 7        | ERV FOAM FILTER                                                                      | 16031                   | N/A                         | N/A                       | 2                           | 2                         |
| 8        | ERV CORE (WITH 2 FILTERS)                                                            | 16033                   | N/A                         | N/A                       | 1                           | 1                         |
| 9        | DRAIN CONNECTOR KIT                                                                  | 03203                   | 1                           | 1                         | N/A                         | N/A                       |
| 10       | DOOR ASSEMBLY                                                                        | 16095                   | 1                           | 1                         | 1                           | 1                         |
| 11       | HRV CORE (WITH 2 FILTERS)                                                            | 16034                   | 1                           | 1                         | N/A                         | N/A                       |
| 12       | HRV FOAM FILTER                                                                      | 16032                   | 2                           | 2                         | N/A                         | N/A                       |
| 13       | MOTORIZED DAMPER PORT ASSEMBLY                                                       | 16029                   | 1                           | 1                         | 1                           | 1                         |
| 14*      | TRANSFORMER                                                                          | 16039                   | 1                           | 1                         | 1                           | 1                         |

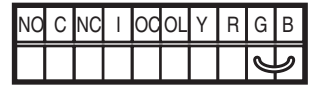
\* PART NOT SHOWN.

\*\* ENSURE TO VERIFY THE CAPACITOR VALUE (SHOWN ON LABEL) BEFORE ORDERING.

## 9. TROUBLESHOOTING

If the integrated control LED of the unit is flashing, this means the unit sensors detected a problem. See the table below to know where on the unit the problem occurs.

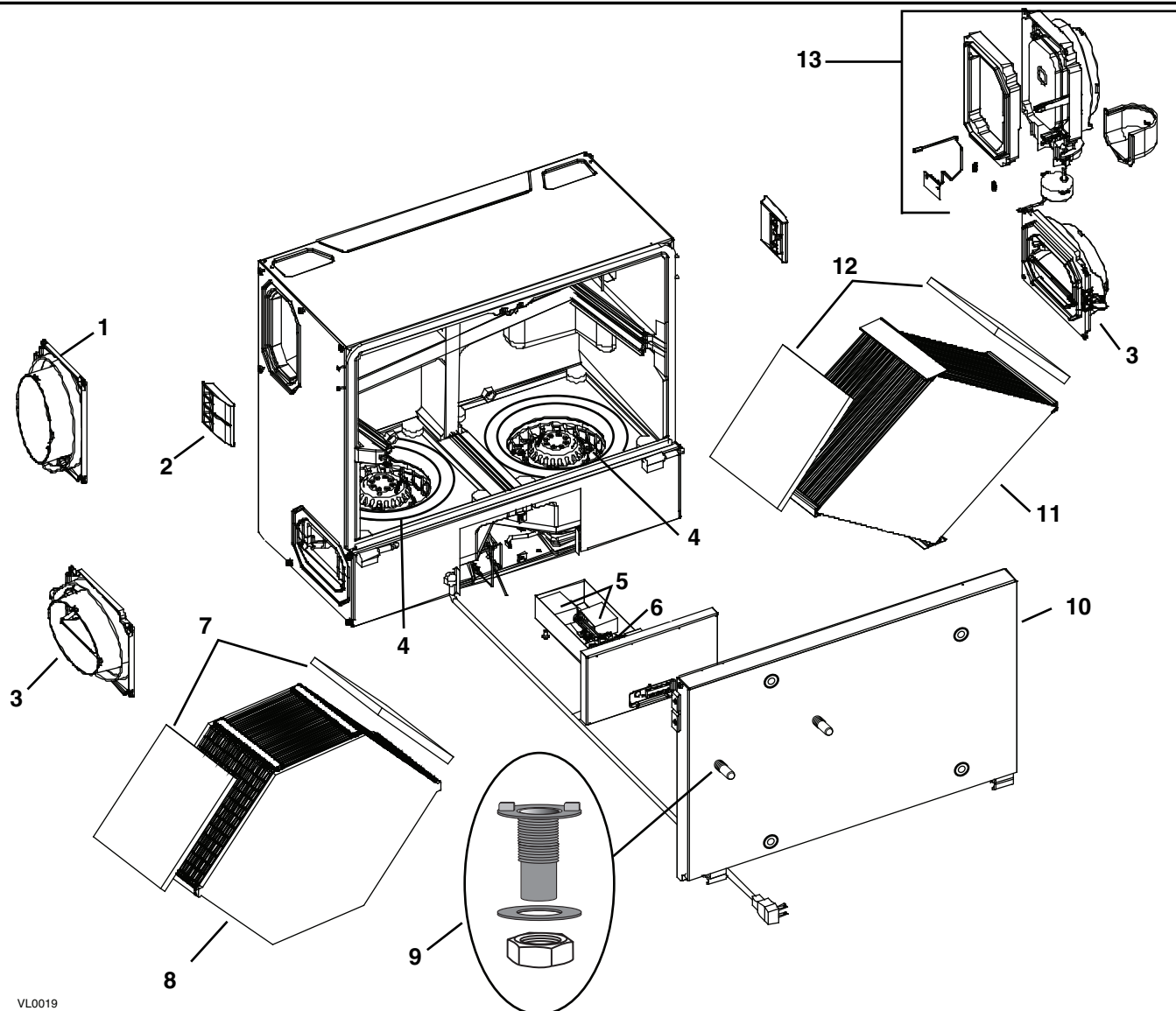
|                    |                                                   |                                                                                          |
|--------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| LED flashes GREEN. | • Thermistor error.                               | • Replace the entire port assembly (fresh air from outside port).                        |
| LED flashes AMBER. | • Damper error.                                   | • Go to Point 6.                                                                         |
| LED flashes RED.   | • The door is open and the unit is not unplugged. | • Close the door and press once on the integrated control push button to reset the unit. |
|                    | • Exhaust motor error.                            | • Go to Point 9.                                                                         |

| Problems                                                                                                                                                         | Possible causes                                                                                                                                                                                     | You should try this                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. The error code E1 is displayed on Platinum wall control screen.                                                                                               | <ul style="list-style-type: none"> <li>• The wires may be in reverse position.</li> <li>• The wires may be broken.</li> <li>• The wires may have a bad connection.</li> </ul>                       | <ul style="list-style-type: none"> <li>• Ensure that the color coded wires have been connected to their appropriate places.</li> <li>• Inspect every wire and replace any that are damaged.</li> <li>• Ensure the wires are correctly connected.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                  |
| 2. There is no outside temperature displayed on Platinum wall control screen  . | <ul style="list-style-type: none"> <li>• The unit thermistor is defective.</li> </ul>                                                                                                               | <ul style="list-style-type: none"> <li>• Replace the unit thermistor.</li> </ul> <p>NOTE: At its very start-up or after a power failure, it takes some minutes before the outside temperature appears on screen. The delay duration depends on which operation mode the wall control is set. The shortest delay is obtained when the wall control is set on MIN or MAX in VENT Mode.</p>                                                                                                                                                                                                                                     |
| 3. Platinum wall control screen alternates between normal display and E3.                                                                                        | <ul style="list-style-type: none"> <li>• The Platinum wall control is defective.</li> </ul>                                                                                                         | <ul style="list-style-type: none"> <li>• Replace the Platinum wall control.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4. Platinum wall control screen alternates between normal display and E4.                                                                                        | <ul style="list-style-type: none"> <li>• The Platinum wall control is defective.</li> </ul>                                                                                                         | <ul style="list-style-type: none"> <li>• Replace the Platinum wall control.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5. Unit does not work.                                                                                                                                           | <ul style="list-style-type: none"> <li>• The circuit board may be defective.</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>• Unplug the unit. Disconnect the main control and the optional(s) control(s) (if need be). Jump G and B terminals. Plug the unit back and wait about 10 seconds. If the motors run on high speed and the damper opens, the circuit board is not defective.</li> </ul> <div>  </div> <p>VE0097</p>                                                                                                                                                                 |
| 6. The damper actuator does not work.                                                                                                                            | <ul style="list-style-type: none"> <li>• The damper actuator or the integrated damper port mechanism may be defective.</li> <li>• The circuit board may be defective.</li> </ul>                    | <ul style="list-style-type: none"> <li>• Unplug the unit. Disconnect the main control and the optional controls(s) (if need be). Wait 10 seconds and plug the unit back. Check if the damper opens. If not, use a multimeter and check for 24 V AC on J12-1 and J12-2 (in electrical compartment). If there is 24 V AC, replace the entire port assembly.</li> <li>NOTE: It is normal to experience a small delay (7-8 seconds) before detecting the 24 V AC signal at starting-up. This signal will stay during 17-18 seconds before disappearing.</li> <li>• If there is no 24 V AC, replace the circuit board.</li> </ul> |
| 7. The wall control does not work.                                                                                                                               | <ul style="list-style-type: none"> <li>• The wires may be in reverse position.</li> <li>• The wires may be broken.</li> <li>• The wire in the wall OR the wall control may be defective.</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure that the color coded wires have been connected to their appropriate places.</li> <li>• Inspect every wire and replace any that are damaged.</li> <li>• Remove the wall control and test it right beside the unit using another shorter wire. If the wall control works there, change the wire. If it does not, change the wall control.</li> </ul>                                                                                                                                                                                                                           |
| 8. The Humidity Control does not work OR the 20-minute push-button timer does not work OR its indicator light does not stay on.                                  | <ul style="list-style-type: none"> <li>• The wires may be in reverse position.</li> <li>• The Humidity Control or push button may be defective.</li> </ul>                                          | <ul style="list-style-type: none"> <li>• Ensure that the color coded wires have been connected to their appropriate places.</li> <li>• Jump the OL and OC terminals. If the unit switch to high speed, remove the Humidity Control or push button and test it right beside the unit using another shorter wire. If it works here, change the wire. If it doesn't, change the Humidity Control or the push button.</li> </ul> <div>  </div> <p>VE0098</p>                                                |

## 9. TROUBLESHOOTING (CONT'D)

| Problems                                                                                                      | Possible causes                                                                                                                                                                                                                          | You should try this                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. The supply and/or exhaust motor do not work.                                                               | <ul style="list-style-type: none"><li>• The circuit board may be defective.</li><li>• The motor(s) may be defective.</li></ul>                                                                                                           | <ul style="list-style-type: none"><li>• Press on the integrated control push button until the unit turn on low speed (the LED will light AMBER). Using a multimeter, check the voltage on J4-1 and J4-2 (for supply motor), and on J5-1 and J5-2 (for exhaust motor). Refer to the FAN MOTORS SPEED SELECTION table in <i>Section 5 Wiring Diagram</i> to know what the reading must be. Then set the unit on high speed by pressing on the integrated control push button one more time (the LED will light GREEN). Using a multimeter, check the voltage on J4-1 and J4-2 (for supply motor), and on J5-1 and J5-2 (for exhaust motor). Refer to the FAN MOTORS SPEED SELECTION table in <i>Section 5 Wiring Diagram</i> to know what the reading must be. If all the readings correspond to the right voltage values, the circuit board is not defective. If one or both readings are different, change the circuit board.</li><li>• Using a multimeter, check the ohms value on each motor connectors. For BLUE and BLACK motor wires, the right value is <math>\pm 52</math> ohms. For BLUE and BROWN motor wires, the right value is <math>\pm 72</math> ohms. For BROWN and BLACK motor wires, the right value is <math>\pm 124</math> ohms. If the ohms values are the same, the motor is not defective. Replace the motor capacitor.</li></ul> |
| 10. The defrost cycle does not work (the fresh air duct is frozen) OR the fresh air distributed is very cold. | <ul style="list-style-type: none"><li>• Ice deposits may be hindering the damper operation.</li><li>• The damper rod or the port damper itself may be broken.</li><li>• The damper actuator or circuit board may be defective.</li></ul> | <ul style="list-style-type: none"><li>• Remove the ice.</li><li>• Inspect these parts and replace if necessary.</li><li>• See point 6.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11. The integrated control push button does not work.                                                         | <ul style="list-style-type: none"><li>• The 30-second boot sequence is not completed.</li></ul>                                                                                                                                          | <ul style="list-style-type: none"><li>• See <i>Section 3.1.1 Boot Sequence</i>.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## 8. PIÈCES DE REMPLACEMENT



VL0019

| RÉF.<br>N° | DESCRIPTION                                                                                                             | NUMÉRO<br>DE PIÈCE      | 41500 VRC AVEC<br>BOUCHES SUR CÔTÉS | 41502 VRC AVEC<br>BOUCHES SUR DESSUS | 41504 VRE AVEC<br>BOUCHES SUR CÔTÉS | 41506 VRE AVEC<br>BOUCHES SUR DESSUS |
|------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| 1          | BOUCHE OVALE<br>(CONVIENT AUX CONDUITS DE 5 PO)                                                                         | 16040                   | 1                                   | 1                                    | 1                                   | 1                                    |
| 2          | LOQUETS DE PORTE AVEC VIS                                                                                               | 16035                   | 2                                   | 2                                    | 2                                   | 2                                    |
| 3          | BOUCHE OVALE ET VOLET DE<br>BALANCEMENT INTÉGRÉ                                                                         | 16041                   | 2                                   | 2                                    | 2                                   | 2                                    |
| 4          | ASSEMBLAGE MOTEUR ET ROUE AVEC<br>LE CONDENSATEUR DU MOTEUR ET<br>L'ANNEAU D'ADMISSION                                  | 16024                   | 2                                   | 2                                    | 2                                   | 2                                    |
| 5          | CONDENSATEUR 3 $\mu\text{F}^{**}$ (2)<br>CONDENSATEUR 5 $\mu\text{F}^{**}$ (2)<br>CONDENSATEUR 7 $\mu\text{F}^{**}$ (2) | 17024<br>16042<br>16027 | 1                                   | 1                                    | 1                                   | 1                                    |
| 6          | CARTE                                                                                                                   | 16038                   | 1                                   | 1                                    | 1                                   | 1                                    |
| 7          | FILTRES EN MOUSSE POUR VRE                                                                                              | 16031                   | S/O                                 | S/O                                  | 2                                   | 2                                    |
| 8          | NOYAU VRE (AVEC 2 FILTRES EN MOUSSE)                                                                                    | 16033                   | S/O                                 | S/O                                  | 1                                   | 1                                    |
| 9          | ENSEMBLE POUR DRAINAGE                                                                                                  | 03203                   | 1                                   | 1                                    | S/O                                 | S/O                                  |
| 10         | PORTE ASSEMBLÉE                                                                                                         | 16094                   | 1                                   | 1                                    | 1                                   | 1                                    |
| 11         | NOYAU VRC (AVEC 2 FILTRES EN MOUSSE)                                                                                    | 16034                   | 1                                   | 1                                    | S/O                                 | S/O                                  |
| 12         | FILTRES EN MOUSSE POUR VRC                                                                                              | 16032                   | 2                                   | 2                                    | S/O                                 | S/O                                  |
| 13         | ASSEMBLAGE BOUCHE-VOLET MOTORISÉ                                                                                        | 16029                   | 1                                   | 1                                    | 1                                   | 1                                    |
| 14*        | TRANSFORMATEUR                                                                                                          | 16039                   | 1                                   | 1                                    | 1                                   | 1                                    |

\* PIÈCE NON ILLUSTRÉE.

\*\* PRENDRE SOIN DE BIEN VÉRIFIER LA VALEUR DU CONDENSATEUR (AFFICHÉE SUR L'ÉTIQUETTE) AVANT DE COMMANDER.

## 9. DÉPANNAGE

S'il survient un problème lors du fonctionnement de l'appareil, le voyant lumineux de l'appareil va clignoter. La couleur du clignotant dépend du type d'erreur détectée.

|                        |                                                                                               |                                                                                                                            |
|------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Voyant clignote VERT.  | • Erreur de thermistor.                                                                       | • Remplacer l'ensemble de bouche-volet motorisé (bouche d'aspiration d'air frais).                                         |
| Voyant clignote AMBRE. | • Erreur de volet.                                                                            | • Aller au point 6.                                                                                                        |
| Voyant clignote ROUGE. | • La porte est ouverte et l'appareil n'est pas débranché.<br>• Erreur de moteur d'évacuation. | • Fermer la porte et appuyer une fois sur le bouton-poussoir intégré pour réinitialiser l'appareil.<br>• Aller au point 9. |

| Problèmes                                                                                                                                                                   | Causes possibles                                                                                                                                              | Essayez ceci                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Le code d'erreur E1 s'affiche sur l'écran de la commande murale Platinum.                                                                                                | • Les fils peuvent être inversés.<br>• Les fils peuvent être brisés.<br>• Les fils peuvent être mal branchés à l'appareil.                                    | • S'assurer que le code des couleurs a été respecté lors du branchement des fils aux bornes correspondantes.<br>• Inspecter chaque fil et remplacer les endommagés.<br>• Vérifier la connexion des fils.                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. La température extérieure ne s'affiche pas sur l'écran  de la commande murale Platinum. | • Le thermistor est défectueux.                                                                                                                               | • Remplacer le thermistor.<br>NOTE : Au premier démarrage ou après une panne de courant, quelques minutes sont nécessaires avant que la température extérieure ne s'affiche à l'écran. La durée de ce délai varie selon le mode de fonctionnement auquel la commande murale est réglée. Le délai le plus court est obtenu lorsque la commande est réglée à MIN ou à MAX du Mode VENT.                                                                                                                                                                                                     |
| 3. L'écran de la commande murale Platinum alterne entre l'affichage normal et E3.                                                                                           | • La commande murale Platinum est défectueuse.                                                                                                                | • Remplacer la commande murale Platinum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. L'écran de la commande murale Platinum alterne entre l'affichage normal et E4.                                                                                           | • La commande murale Platinum est défectueuse.                                                                                                                | • Remplacer la commande murale Platinum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. L'appareil ne fonctionne pas.                                                                                                                                            | • La carte de l'appareil est peut-être défectueuse.                                                                                                           | • Débrancher l'appareil. Débrancher la commande murale optionnelle et les auxiliaires (le cas échéant). Court-circuiter les bornes G et B. Rebrancher l'appareil et attendre environ 10 secondes. Si les moteurs passent en haute vitesse et que le volet ouvre, la carte n'est pas défectueuse. <div> </div>                                                                                                                                                                                                                        |
| 6. Le servomoteur du volet ne fonctionne pas.                                                                                                                               | • Le servomoteur ou le mécanisme du volet motorisé peut être défectueux.<br><br>• La carte est peut-être défectueuse.                                         | • Débrancher l'appareil. Débrancher la commande murale optionnelle et les auxiliaires (le cas échéant). Attendre 10 secondes et rebrancher l'appareil. Vérifier si le volet ouvre. Si non, à l'aide d'un multimètre vérifier la présence de 24 V ca sur J12-1 et J12-2 (compartiment électrique). Si il y a 24 V ca, remplacer l'ensemble bouche et volet motorisé.<br>NOTE : Au démarrage, prévoir un délai de 7-8 secondes avant de détecter le signal 24 V. Le signal demeurera durant 17-18 secondes avant de disparaître.<br>• S'il n'y a pas de signal 24 V ca, remplacer la carte. |
| 7. La commande murale ne fonctionne pas.                                                                                                                                    | • Les fils sont peut-être inversés.<br>• Les fils sont peut-être endommagés.<br>• Les fils de la commande murale OU la commande murale peut être défectueuse. | • S'assurer que les fils sont branchés dans leur bornier respectif.<br>• Inspecter chacun des fils et remplacer les endommagés.<br>• Retirer la commande murale et la tester près de l'appareil avec un autre fil plus court. Si la commande fonctionne, changer le fil. Sinon, remplacer la commande murale.                                                                                                                                                                                                                                                                             |
| 8. Le <i>Humidity Control</i> ne fonctionne pas OU le bouton-poussoir 20 minutes ne fonctionne pas OU son voyant lumineux ne reste pas allumé.                              | • Les fils sont peut-être inversés.<br>• Le <i>Humidity Control</i> ou le bouton-poussoir peut être défectueux.                                               | • S'assurer que les fils sont branchés dans leur bornier respectif.<br>• Court-circuiter les bornes OL et OC. Si l'appareil passe en haute vitesse retirer le <i>Humidity control</i> ou le bouton-poussoir et le tester près de l'appareil avec un autre fil plus court. Si la commande fonctionne, changer le fil. Sinon, remplacer le <i>Humidity Control</i> ou le bouton-poussoir. <div> </div>                                                                                                                                 |

| Problèmes                                                                                                              | Causes possibles                                                                                                                                                                                                                                  | Essayez ceci                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Le moteur d'aspiration ou d'évacuation d'air ne fonctionne pas.                                                     | <ul style="list-style-type: none"> <li>• La carte peut être défectueuse.</li> <li>• Le(s) moteur(s) est (sont) peut-être défectueux.</li> </ul>                                                                                                   | <ul style="list-style-type: none"> <li>• Appuyer sur le bouton de la commande intégrée pour que l'appareil passe en basse vitesse (le voyant lumineux sera AMBRE). Avec un multimètre, vérifier la tension sur J4-1 et J4-2 (moteur aspiration) et sur J5-1 et J5-2 (moteur évacuation). Voir le tableau de SÉLECTION DE LA VITESSE DES MOTEURS DE VENTILATEUR dans la <i>section 5 Schéma électrique</i> pour connaître la bonne valeur de la tension. Puis, régler l'appareil en haute vitesse en appuyant une autre fois sur le bouton de la commande intégrée (le voyant sera VERT). Avec un multimètre, vérifier la tension sur J4-1 et J4-2 (moteur aspiration) et sur J5-1 et J5-2 (moteur évacuation). Voir le tableau de SÉLECTION DE LA VITESSE DES MOTEURS DE VENTILATEUR dans la <i>section 5 Schéma électrique</i> pour connaître la bonne valeur de la tension. Si toutes les lectures correspondent, la carte n'est pas défectueuse. Si une ou les deux lectures diffèrent, changer la carte.</li> <li>• Avec un multimètre, vérifier la valeur en ohms de chaque connecteur de moteur. Pour les fils BLEU et NOIR, la bonne valeur est de <math>\pm 52</math> ohms, pour les fils BLEU et BRUN, la bonne valeur est de <math>\pm 72</math> ohms et pour les fils BRUN et NOIR, la bonne valeur est de <math>\pm 124</math> ohms. Si les valeurs en ohms sont les mêmes, le moteur n'est pas défectueux. Remplacer le condensateur de moteur.</li> </ul> |
| 10. Le cycle de dégivrage ne fonctionne pas (le conduit d'air frais est gelé) OU l'air frais distribué est très froid. | <ul style="list-style-type: none"> <li>• Des dépôts de glace peuvent nuire au fonctionnement du volet.</li> <li>• La tige du volet ou le volet lui-même est brisé(e).</li> <li>• Le servo-moteur ou la carte peut être défectueux(se).</li> </ul> | <ul style="list-style-type: none"> <li>• Enlever la glace.</li> <li>• Inspecter et remplacer ces pièces si nécessaire.</li> <li>• Voir le point 6.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11. Le bouton-poussoir de la commande intégrée ne fonctionne pas.                                                      | <ul style="list-style-type: none"> <li>• La séquence de démarrage de 30 secondes n'est pas terminée.</li> </ul>                                                                                                                                   | <ul style="list-style-type: none"> <li>• Voir la <i>section 3.1.1 Séquence de démarrage</i>.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |