

BROAN[®]

USER AND INSTALLER MANUAL

BLP150E75NS-HWF

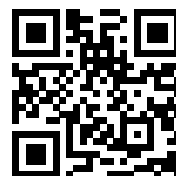


REGISTER YOUR PRODUCT ONLINE AT:
Broan-NuTone.com/en-us/product-registration-form



RESIDENTIAL USE ONLY

For additional information, videos and more, scan this QR code.



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.

LIMITATION

For residential (domestic) installation only. Installation work and electrical wiring must be done by a qualified person in accordance with all applicable codes and standards, including fire-rated construction codes and standards.

⚠ WARNING

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.
2. Before servicing or cleaning this unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
3. This unit is not designed to provide combustion and/or dilution air for fuel-burning appliances.
4. When cutting or drilling into a 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 those specified.
6. This unit must be grounded in accordance with the national electrical code and local codes and ordinances.
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 this unit, it is recommended to wear safety glasses and gloves.
10. When applicable local regulation 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 expense.
11. Do not screw the brackets, or any other hardware, into any other location but the mount locations designated by the manufacturer.
12. Make sure to secure mounting brackets in a sound structure.

CAUTION

1. To avoid prematurely clogged filters, turn the unit OFF 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. Do not attempt to recover the exhaust air from a dryer or a range hood.
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 within 2 ft. of a 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 10 ft. away from plenum connection to the furnace. This 10-ft. distance applies only in areas where the outside temperature falls below the freezing point (32°F/0°C).
6. The ductwork is intended to be installed in compliance with all applicable local and national codes.
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 65°F (18°C).
9. At least once a year, the unit mechanical and electronic parts should be inspected by qualified service personnel.
10. Do not use your unit during construction or renovation of your house or when sanding drywall. Certain types of dust and vapors may damage your system.
11. Make sure at all times that the outside intake and exhaust hoods are free from any snow during the winter season. It is important to check your unit during a big snow storm, so it doesn't draw in any snow. If this is the case, please turn the unit OFF for a few hours.
12. Since the electronic control system of the unit uses a microprocessor, it may not operate correctly because of external noise or very short power failure. If this happens, unplug the unit and wait approximately 10 seconds. Then, plug the unit in again.
13. Do not make excessive use of fragrance appliances or chemicals since some may damage the unit components material.

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Consumer Information

A. To ensure quiet operation of the ERV, each product model must be installed using sound attenuation techniques appropriate for the installation.

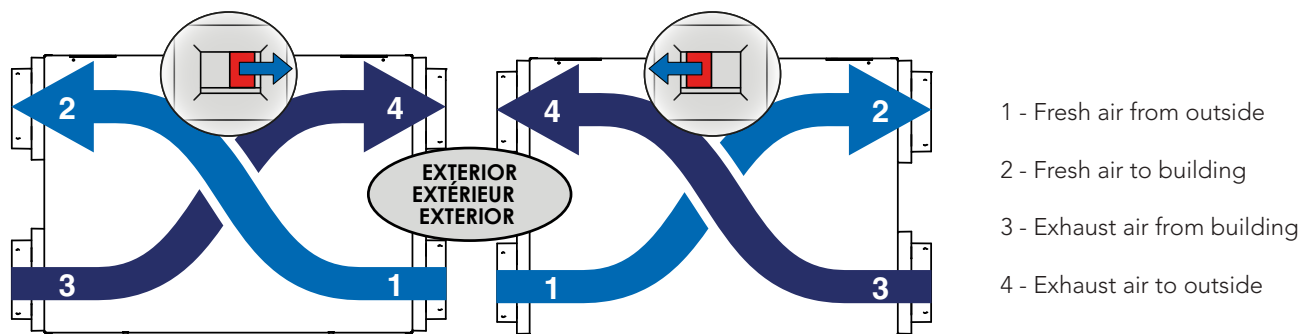
B. The way your energy-recovery ventilator is installed can make a significant difference to the electrical energy you use. To minimize the electricity use of the energy-recovery ventilator, a stand-alone fully ducted installation is recommended. If you choose a simplified installation that operates your furnace air handler for room-to-room ventilation, an electrically efficient furnace that has an electronically commutated (EC) variable speed blower motor will minimize your electrical energy consumption and operating cost.

C. Installation of a user-accessible control with your product model will improve comfort and may significantly reduce the product model's energy use.

1. TECHNICAL DATA

1.1 AIR DISTRIBUTION (NORMAL OPERATION)

Selector must point in exterior ducts direction.



NOTE: The dimensions, performance charts and specifications are listed on the specification sheets of the unit.
Visit our website at Broan-NuTone.com.

2. INSTALLATION

⚠ WARNING

The wearing of safety glasses and gloves is recommended when installing, maintaining or cleaning the unit to reduce the risk of injury that could be caused by the presence of thin metal and/or high moving parts.

CAUTION

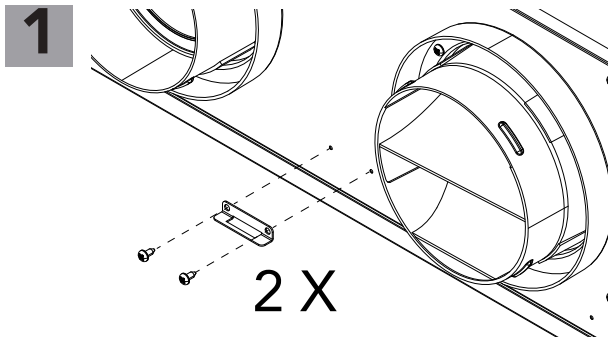
Make sure that no piece of mineral wool will enter in the unit during installation. Otherwise, this could reduce airflow and generate vibrations and noise in the unit.

2.1 LOCATING AND MOUNTING THE UNIT

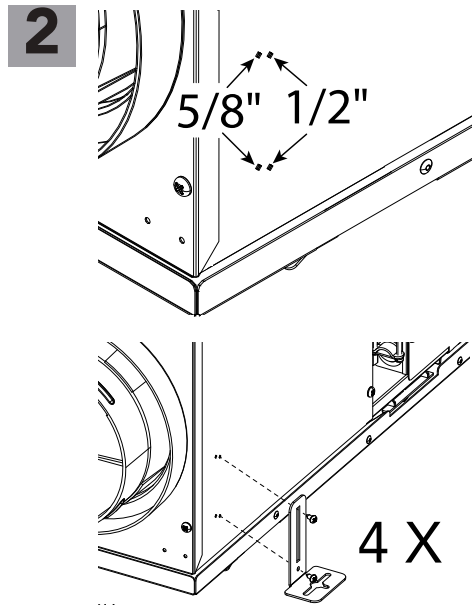
Choose an appropriate location for the unit:

- Within an area of the house where the ambient temperature is kept between 50°F and 160°F;
- Away from living areas (dining room, living room, bedroom), if possible;
- So as to provide easy access to the interior cabinet for maintenance, and to the control panel on the bottom side of the unit;
- Close to an exterior wall, so as to limit the length of the insulated flexible ducts to and from the unit;
- Away from hot chimneys, electrical panel and other fire hazards.

2.1 LOCATING AND MOUNTING THE UNIT (CONT.)

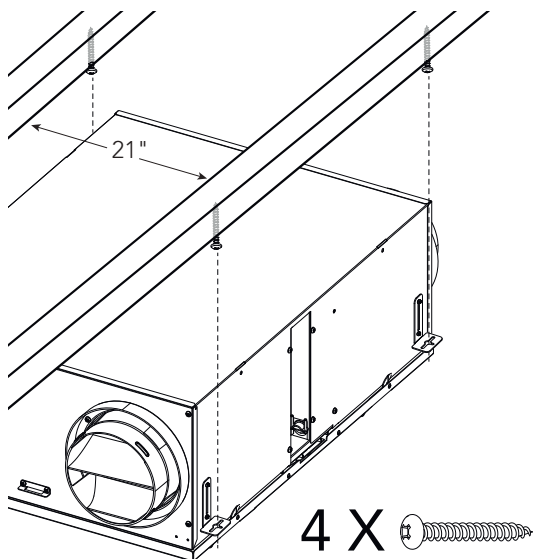


NOTE: Use box template to position screws for unit installation in ceiling or wall.



Bracket position is linked to gypsum board thickness.

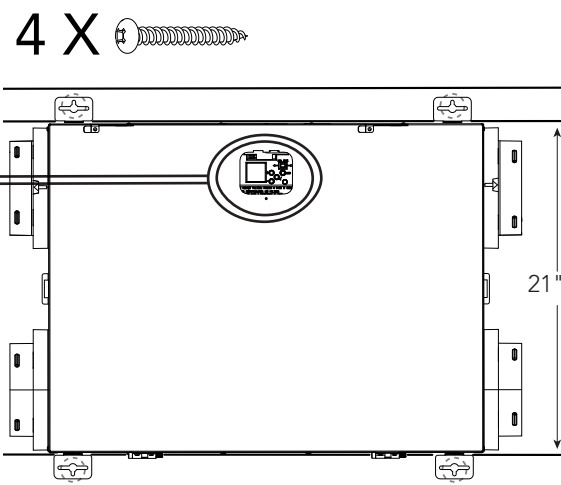
Ceiling Installation



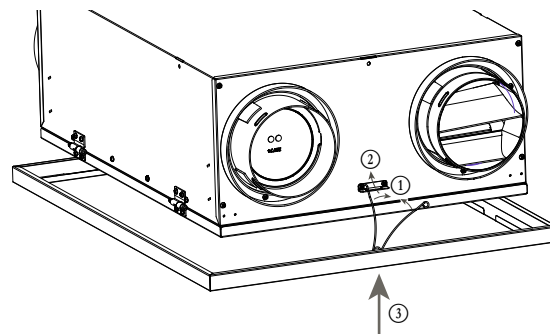
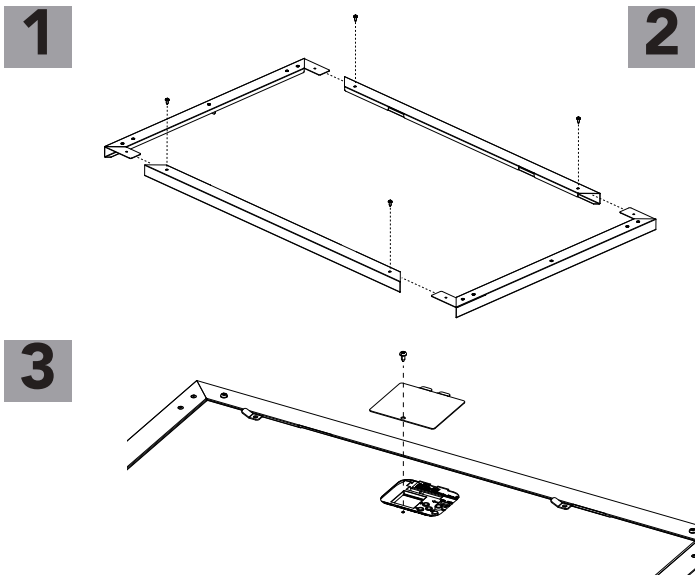
Wall Installation

NOTE: Make sure the electrical box is installed upward.

OR



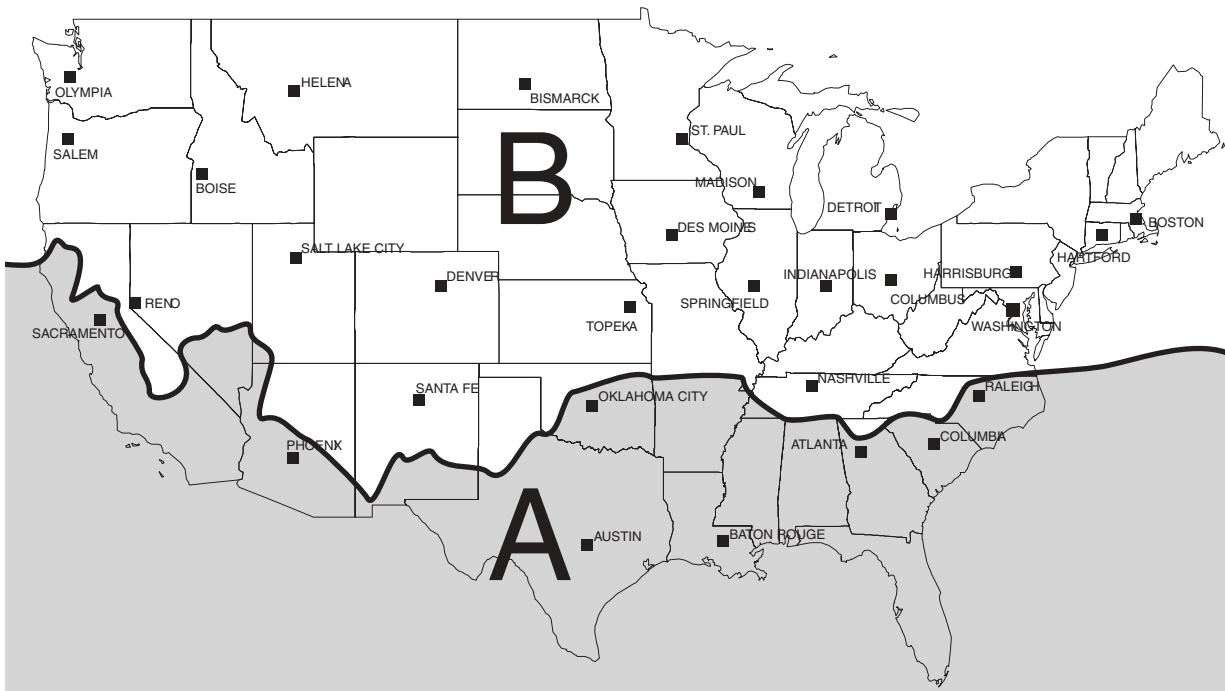
Trim Installation



Compress the springs, insert into the openings located on each side and push trim against ceiling/wall.

2.1 LOCATING AND MOUNTING THE UNIT (CONT.)

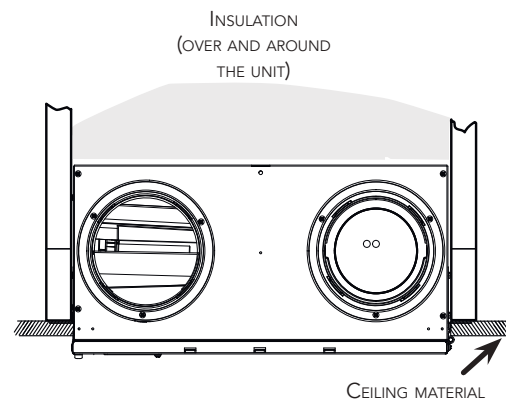
Installation requirements differ from zones A and B shown within map below.



ZONE A

CAUTION

When installed in ceiling in the attic of a zone A, insulation must be spread over the unit. Installed unit area ambient temperature must be kept between 50°F and 160°F.

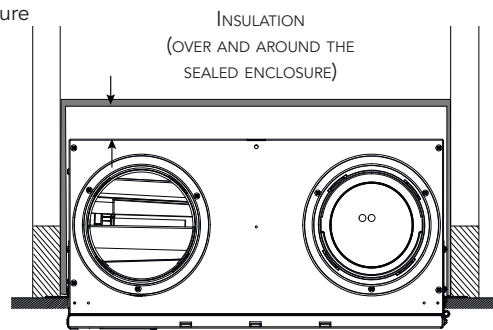


A clearance of about 1" is needed over the unit to ensure the unit does not touch the enclosure

ZONE B

CAUTION

When installed in the ceiling in an unconditioned space (e.g.: attic), above the unit in zone B, a sealed enclosure must be installed over and around the unit to avoid air leakage, condensation and mold growth risks. Insulation must be spread over and around the enclosure. Ducting must pass through the sealed enclosure and must be sealed to the enclosure.



2.2 INSTALLING THE DUCTWORK AND THE REGISTERS

⚠ WARNING

Never install a stale air exhaust register in a room where there is a combustion device, such as a furnace, gas water heater, fireplace or any appliance or equipment that can generate gaseous contaminants, or pollutants. The negative pressure this could create in the room may impair proper evacuation of the gas or pollutants, which may have severe health consequences.

CAUTION

If ducts have to go through an unconditioned space (e.g.: attic), always use insulated ducts to prevent condensation formation inside and outside ducts, which could cause material damage and/or mold growth. Moreover, if fresh air to building duct and/or stale air from building duct goes/go through an unconditioned space, the unit must be set to operate continuously in cold conditions (below 10°C/50°F). Continuous air movement inside ducts will prevent condensation formation. The unit can be stopped temporarily for maintenance and/or repair purposes in such conditions.

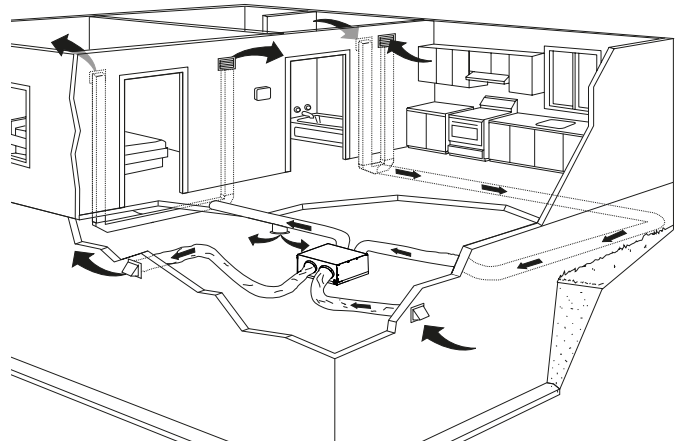
2.2.1 FULLY DUCTED SYSTEM (T-1)

STALE AIR FROM BUILDING:

- Install registers in areas where contaminants and humidity are produced: kitchen, bathrooms, laundry room, etc.
- Install registers on an interior wall, 6 to 12 inches away from the ceiling OR in the ceiling.
- Install the kitchen register at least 4 feet away from the range.
- Bathroom fans and range hoods can be used to better exhaust stale air.
- Homes with more than one level require at least one exhaust register at the highest level.

FRESH AIR TO BUILDING:

- Install registers in bedrooms, dining room, living room and basement.
- Install registers in the ceiling OR high on the walls with the airflow directed towards the ceiling.
- If a register must be installed in the floor, direct the airflow up the wall.



NOTE: For this type of configuration, the T-1 option must be selected on the LCD screen when auto-balancing the unit (see section 5.2).

2.2.2 EXHAUST DUCTED SYSTEM (T-2)

⚠ WARNING

Duct connection to the central forced-air system can be regulated by some codes and standards. It is your responsibility to consider and comply with your local requirements to avoid any non-compliance.

STALE AIR FROM BUILDING:

Same as for Fully Ducted System, described on point 2.2.1.

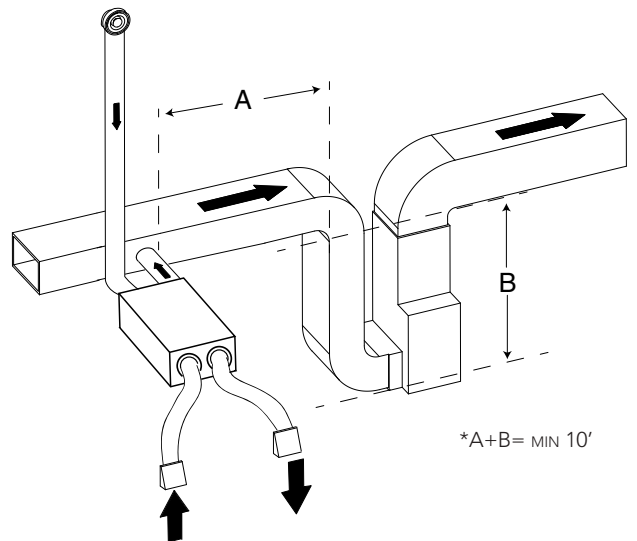
FRESH AIR TO BUILDING:

- Connect the fresh air distribution duct of the unit to the central forced-air system return duct at least 10 feet away from the central forced-air system (A+B)*.

* This 10-ft. distance applies only in areas where the outside temperature falls below the freezing point (32°F).

NOTE: The central forced-air system blower operation can be synchronized with the unit (see section 3.3). It is recommended, but not essential that the central forced-air system blower runs when the unit is in operation.

NOTE: For this type of configuration, the T-2 option must be selected on the LCD screen when auto-balancing the unit (see section 5.2).



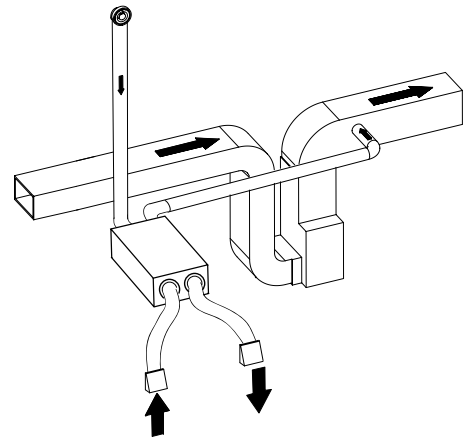
ALTERNATE INSTALLATION (T-3)

Unit should be synchronized with central forced-air system operation to avoid condensation and mold growth in central forced-air system distribution ducting if cooling mode of central forced-air system is used.

CAUTION

This configuration is not recommended with high velocity central forced-air system. High pressures produced by these systems could affect unit proper operation and generate errors.

NOTE: For this type of configuration, the T-3 option must be selected on the LCD screen when auto-balancing the unit (see section 5.2).



2.2.3 SIMPLIFIED INSTALLATION (T-4)

CAUTION

The central forced-air system must be synchronized with the unit since fresh air evacuation and distribution come from the same section. The central forced-air system must operate to avoid fresh air to be directly drawn by the evacuation, which would reduce significantly fresh air supply to the building. See section 3.3 for ducting.

⚠ WARNING

Duct connection to the central forced-air system can be regulated by some codes and standards. It is your responsibility to consider and comply with your local requirements to avoid any non-compliance.

Fresh air and exhaust air flow through the central forced-air system ducts, which simplifies the installation.

The use of bathroom fans and a range hood is suggested to exhaust stale air.

STALE AIR FROM BUILDING:

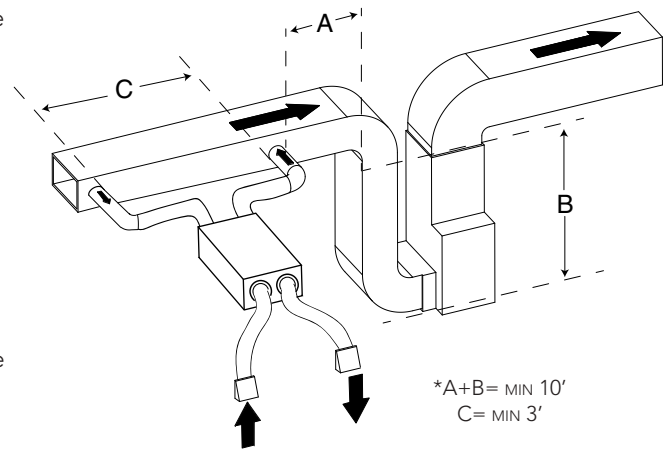
Connect the stale air intake port of the unit to the central forced-air system return duct at least 3 feet ahead of the fresh air distribution from the unit.

FRESH AIR TO BUILDING:

Connect the fresh air distribution duct of the unit to the central forced-air system return duct at least 10 feet away from the central forced-air system (A+B)*.

* This 10-ft. distance applies only in areas where the outside temperature falls below the freezing point (32°F).

NOTE: For this type of configuration, the T-4 option must be selected on the LCD screen when auto-balancing the unit (see section 5.2).



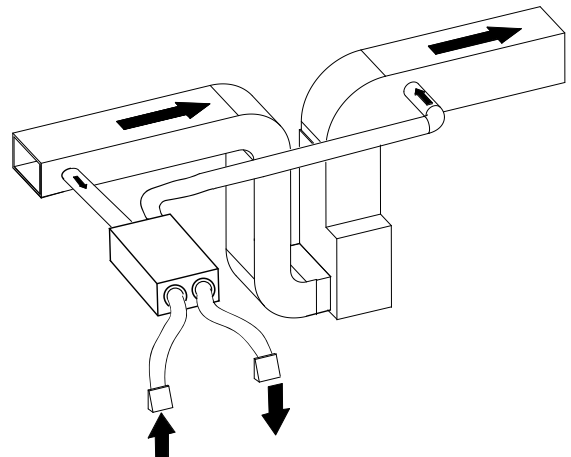
ALTERNATE INSTALLATION (T-5)

Unit should be synchronized with central forced-air system operation to avoid condensation and mold growth in central forced-air system distribution ducting if cooling mode of central forced-air system is used.

CAUTION

This configuration is not recommended with high velocity central forced-air system. High pressures produced by these systems could affect unit proper operation and generate errors.

NOTE: For this type of configuration, the T-5 option must be selected on the LCD screen when auto-balancing the unit (see section 5.2).



2.3 EXTERIOR HOODS INSTALLATION / LOCATION

⚠ WARNING

Make sure intake hood is located at least 10 feet away from any of the following:

- Dryer exhaust, central vacuum vent
- Gas meter exhaust, gas barbecue-grill
- Any exhaust vents or chimney from a combustion source
- Garbage bin and any other source of contamination such as parking lots, streets

For multifamily buildings only:

Make sure exhaust hood is located at least 3 feet away from any of the following:

- Property lines
- Operable openings into buildings (door, window)
- Intake and exhaust hood(s) shall be protected with corrosion-resistant screens, louvers or grilles having openings not less than 1/4 inch and not larger than 1/2 inch.
- Install hood(s) at least at 18 inches away from the ground OR depth of expected snow accumulation, whichever is greater.

To minimize cross-contamination of exhausted stale air into the fresh air intake:

Single detached, attached homes and townhouses:

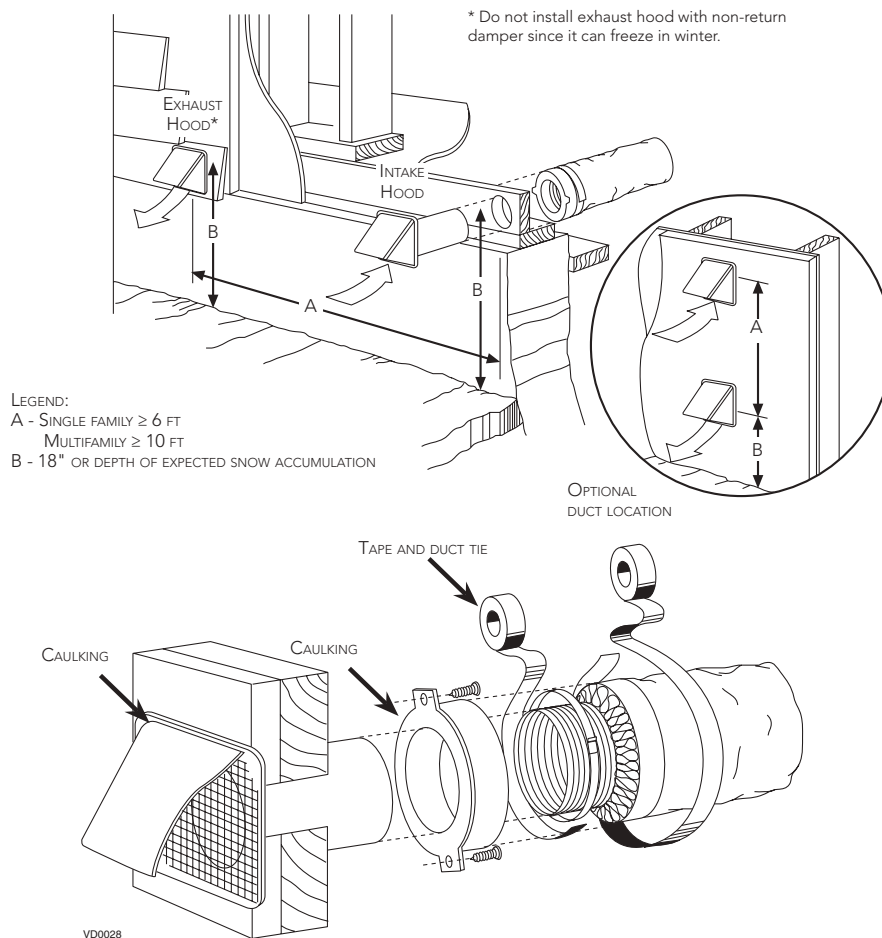
- Maintain a 6 feet minimum separation distance between outdoor air intake and exhaust hoods OR use an approved factory-built intake/exhaust combination termination fitting.

Multifamily buildings:

- Maintain a 10 feet minimum separation distance between outdoor air intake and exhaust hoods OR use an approved factory-built intake/exhaust combination termination fitting.

Ignoring these recommendations could significantly degrade the quality of the incoming air which, in some cases, could result in health consequences. In the event of a conflict between our recommendations and any local requirements, the latter shall have priority.

Refer to illustration below for an example of proper connection method of the insulated ducts to the hoods. An "Anti-Gust Intake Hood" should be installed in regions where snow is expected.

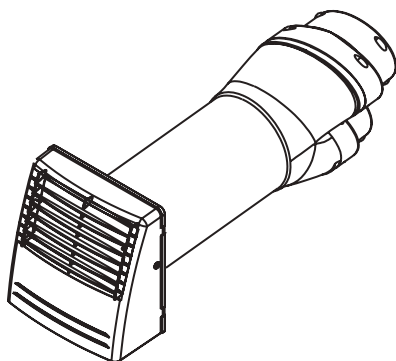


2.4 INSTALLING A TANDEM® TRANSITION* KIT (OPTIONAL)

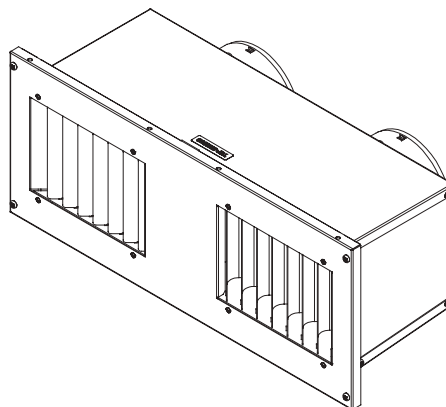
If desired, a Tandem transition kit can be used instead of 2 exterior hoods.

- Follow the instructions included with the tandem termination kit.

*Patented.



Part No. VTYIK1



Part No. V14695

2.5 CONNECTING THE DUCTS TO THE UNIT

CAUTION

- If ducts have to go through an unconditioned space (e.g.: attic), always use insulated ducts to prevent condensation formation inside and outside ducts, which could cause material damage and/or mold growth.
- Do not use screws to connect the ducts or transitions to the ports so as not to interfere with ports inner dampers operation. A non-functioning damper could freeze the unit, which could cause damages.
- A 4-ft minimum length is required for flexible duct connected from the unit.

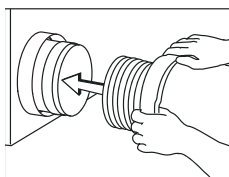
INSULATED FLEXIBLE DUCTS

Use the following procedure to connect the insulated flexible ducts to the ports of the unit (exhaust to outside and fresh air from outside).

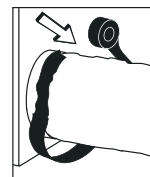
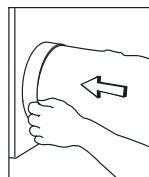
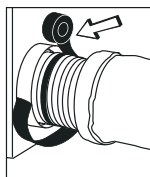
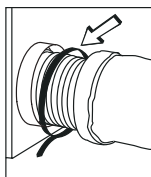
1. Expose the flexible duct by pulling back the insulation, and place it **over** the inner port ring.
2. Attach the flexible duct to the port using a tie wrap.
3. Seal the joint using duct tape.
4. Pull the insulation and vapor barrier over the joint, tuck them **between the inner and outer rings** of the double collar and fasten them in place using duct tape.

CAUTION

The vapor barrier should remain intact and free of cracks or openings. An opening could produce condensation inside or outside duct, which could cause material damage and/or mold growth in the long run.



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RIGID DUCTS

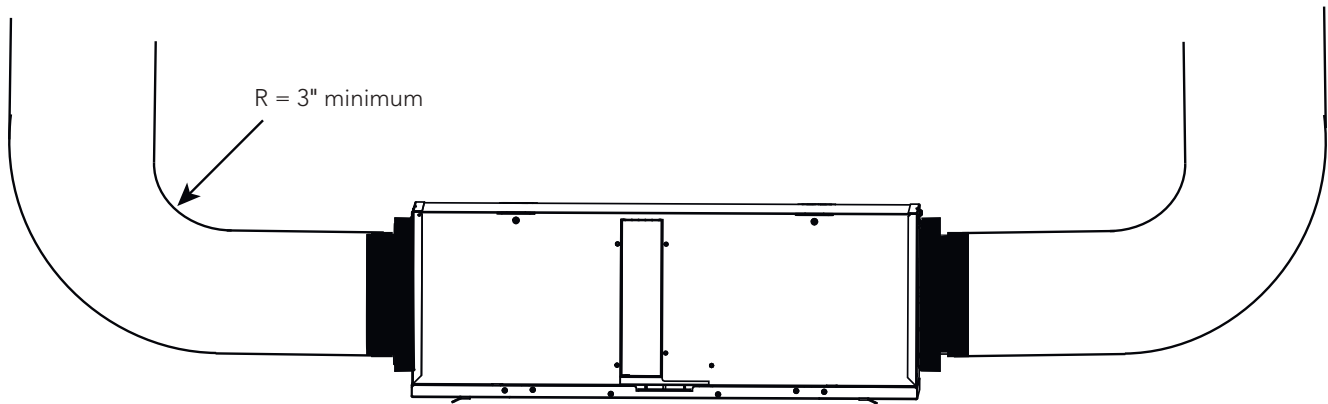
To prevent potential water leakage in cold side rigid ducting insulation, seal all rigid ducting joints with duct tape.

To avoid transmission of vibrations, always use a 12-inch section of flexible duct to connect rigid ducts to the unit. To connect insulated rigid ducts to the unit (cold side) using insulated flexible ducts, follow instructions in section 2.3. To connect regular rigid ducts (warm side) to the unit using non-insulated flexible ducts, use a tie wrap.

2.5.1 DUCTS CONNECTION

IMPORTANT: Make sure to connect ducting as illustrated below to get airflows reading accuracy. Correct installation will also allow proper drainage of water that may accumulate in ducting.

CORRECT INSTALLATION



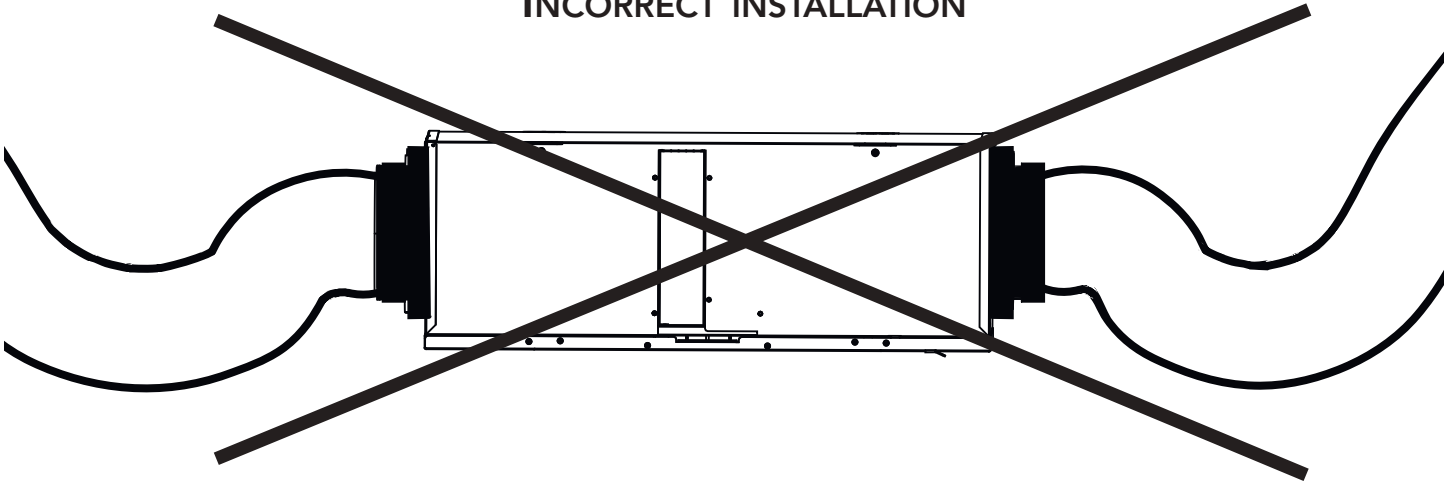
CAUTION

Ducting must not be too crushed. Otherwise, airflows reading accuracy will be affected.

CAUTION

Insulated ducts must have the same diameter as the ports to ensure proper drainage of water that may accumulate in ducts.

INCORRECT INSTALLATION



NOTE: Route ducts as straight as possible, minimize the number of elbows and design and install ducts in accordance with ACCA's Manual D.

3. CONNECTIONS

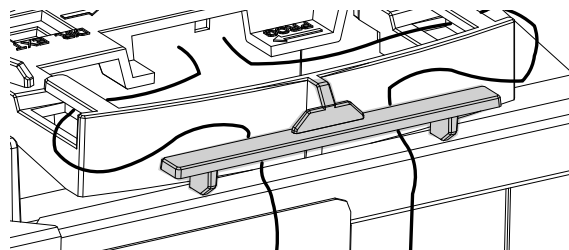
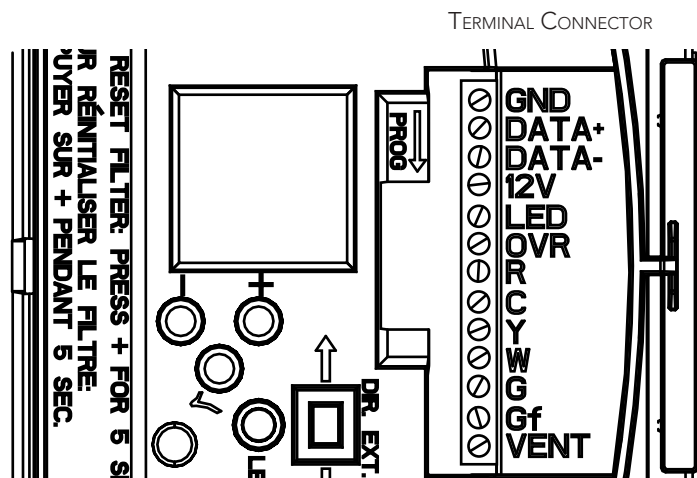
3.1 ELECTRICAL CONNECTION TO OPTIONAL MAIN WALL CONTROL

⚠ WARNING

Always disconnect the unit before making any connections. Failure to cut power could result in electrical shock or damage to 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 the risk of electrical interference (noise), 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.

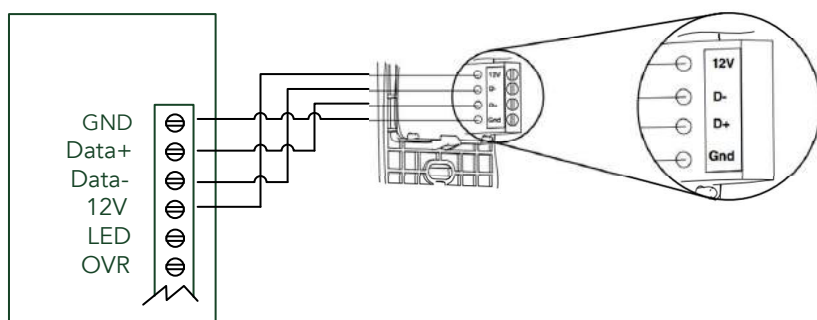


Once connected, run low voltage wires as illustrated above to prevent door from pinching wires.

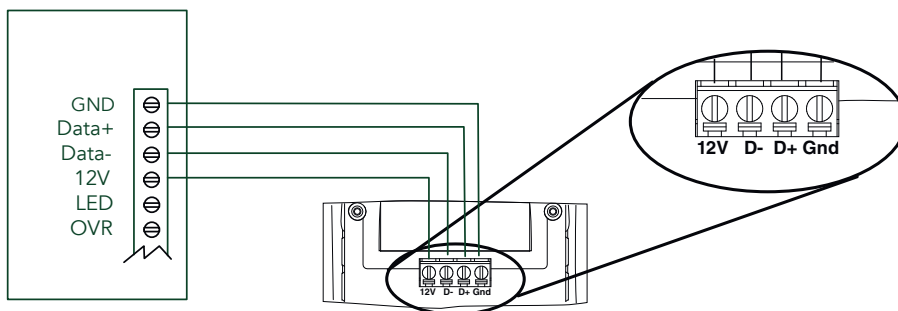
Use the terminal connector included to perform the electrical connection for optional main wall control. Make sure wires are not stripped too long. Metal wires should not cross and touch each other. Check if all wires are correctly inserted in their corresponding holes in the terminal connector. Use screws to fix wires in the terminal connector.

NOTE : For information about the operation of the wall control, refer to the corresponding Installation and User Guide, available at Broan-NuTone.com.

3.1.1 ELECTRICAL CONNECTION TO SPEED, DEHUMIDISTAT OR AUTOMATIC OPTIONAL MAIN WALL CONTROL



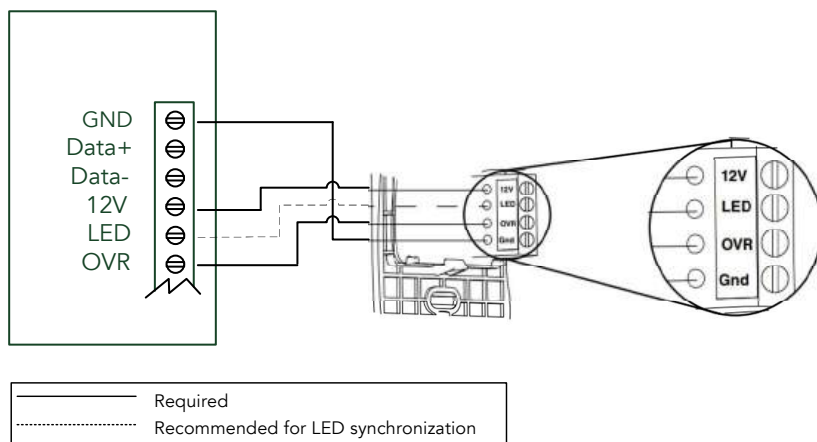
3.1.2 ELECTRICAL CONNECTION TO ADVANCED OPTIONAL MAIN WALL CONTROL



3. CONNECTIONS (CONT'D)

3.2 ELECTRICAL CONNECTION TO OPTIONAL AUXILIARY WALL CONTROL

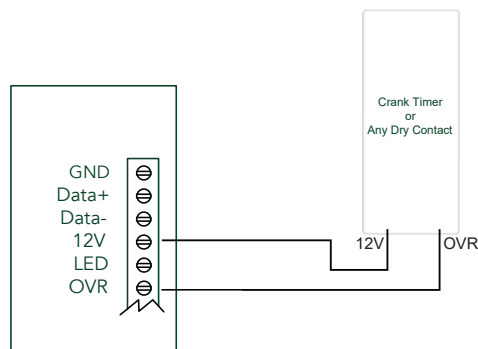
3.2.1 ELECTRICAL CONNECTION TO 20-40-60 OPTIONAL AUXILIARY WALL CONTROL



When configuring OVR option on the LCD screen, choose among these 3 configurations: BAL (the unit remains balanced while providing maximum airflow), PER (the unit is slightly unbalanced since the distribution motor is in MAX speed while allowing maximum exhaust ventilation) and DIS (the unit is unbalanced since air distribution is constant despite a higher need in exhaust ventilation).

NOTE : The auxiliary wall control can be used with a 3-wire connection by removing the LED signals. This optional wiring will not allow an installation with more than 1 auxiliary wall control to properly synchronize their LEDs on an event requested from a peer. Only the auxiliary wall control having requested the timer event will have the LEDs updated accordingly.

3.2.2 ELECTRICAL CONNECTION TO DRY CONTACT OPTIONAL AUXILIARY WALL CONTROL (E.G. CRANK TIMER)



⚠ WARNING

A miswiring that sends a 24 VAC signal to the terminal block (OVR, LED, 12V, D-, D+, GND) could permanently damage the control circuit. Verify carefully wire connections before powering-up the unit.

3.3 CONNECTION TO THE CENTRAL FORCED-AIR SYSTEM

⚠ WARNING

Never connect a 120-volt AC circuit to the terminals of the central forced-air system interlock (standard wiring). Only use the low voltage class 2 circuit of the central forced-air system blower control. The unit is designed for low voltages only. Connecting the unit on 120-volt circuit would damage it instantly.

3.3.1 UNIT OPERATION USING A DRY CONTACT CONNECTION

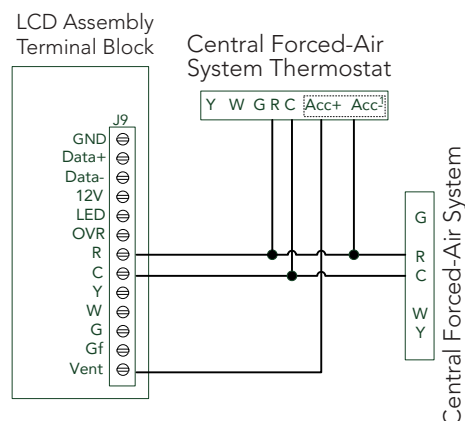
This unit can be controlled by any dry contact connection such as the thermostat equipped with an optional ventilation output.

Once wired, unit will toggle between the Standby mode when contact is opened and the selected mode when contact is closed. Choose among these 4 configurations: minimum (unit operating in MIN speed), intermittent (unit operating in MIN speed 20 min/hr then as per INT configuration selection for 40 min), auto* (unit operating according to outdoor temperature) and maximum (unit operating in MAX speed) in DRY option on the LCD screen when the VENT contact is activated. Refer to section 5 for more details.

* In auto mode, the unit will operate as follows:

- Less than -13°F = 10 min/hr
- -13°F to 19°F = 20 min/hr
- 19°F to 50°F = 40 min/hr
- 50°F to 77°F = MIN speed
- 77°F to 82°F = 30 min/hr
- 82°F to 91°F = 20 min/hr
- Above 91°F = 10 min/hr

Wiring with Central Forced-Air System Thermostat



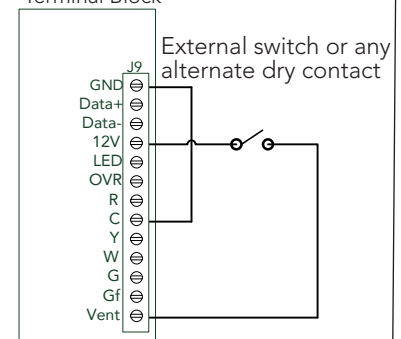
1 - External switch or any dry contact can be used to activate Vent input if not available on the thermostat

NOTE : This dry contact option will override the main wall control so we do not recommend the use of a wall control with this type of connection.

NOTE : Following ducting installation configuration and temperature conditions, it may be necessary for the unit to operate continuously. Refer to section 2.2 for more details.

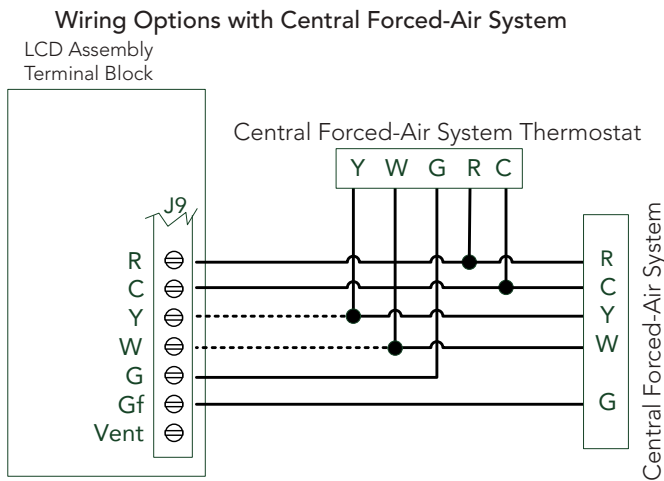
Alternate Wiring for Independent Installation

LCD Assembly Terminal Block



Note: Synchronization with a central forced-air system with W and Y is not available with this configuration.

3.3.2 UNIT INTERCONNECTION WITH CENTRAL FORCED-AIR SYSTEM (R/C/G/Gf)



These connections must be done if you want the unit to force the central forced-air system blower operation when ventilating (refer to solid lines in diagram hereafter).

NOTE : These connections are required for installation configuration T-4. Refer to section 2.2 for more details.

3.3.3 SYNCHRONIZATION WITH CENTRAL FORCED-AIR SYSTEM FUNCTION

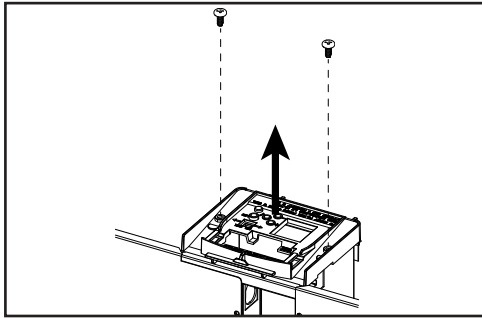
The Virtuo technology allows synchronizing the unit operation with the central forced-air system operating time. It prevents unnecessary central forced-air system operating time while providing a better air distribution.

To use this function, W and Y connections must be added to R and C connections to inform the unit that the central forced-air system is running (refer to dotted lines in above diagram).

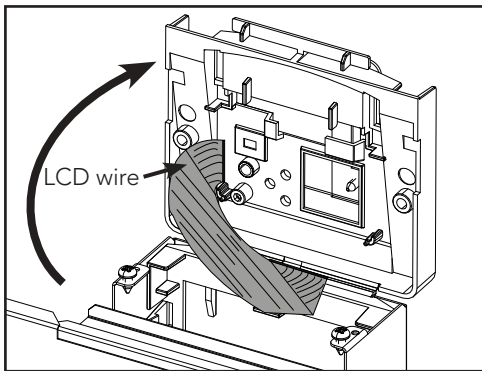
3.4 ELECTRICAL CONNECTION

NOTE : Electrical wiring must be done by qualified personnel in accordance with all applicable codes and standards.

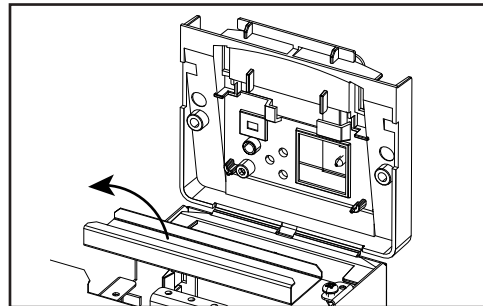
1 - Open the unit door.



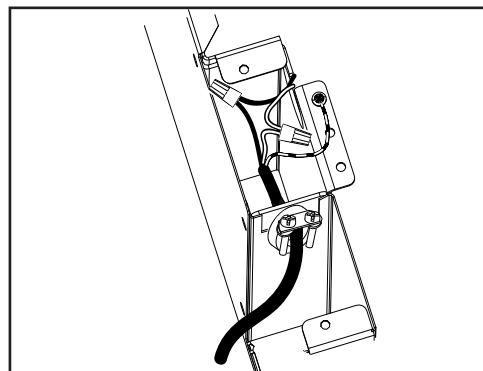
2 - Remove the two screws of the LCD screen cover.



3 - Flip LCD screen cover.



4 - Remove electrical compartment cover.



5 - Perform wiring connections.

6 - Reverse steps 4 to 1.

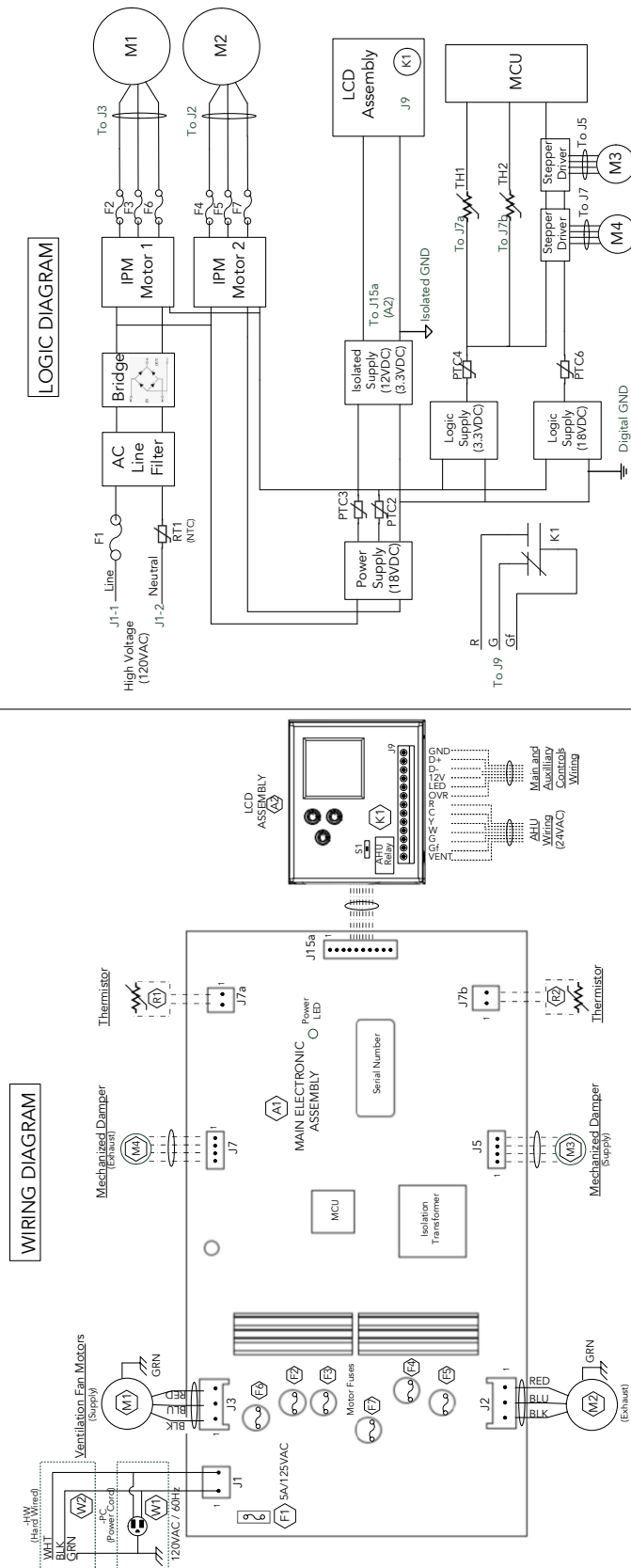
7 - Connect power supply.

NOTE: Make sure LCD wire connectors are well inserted before closing LCD screen cover.

4. WIRING DIAGRAM

⚠ WARNING

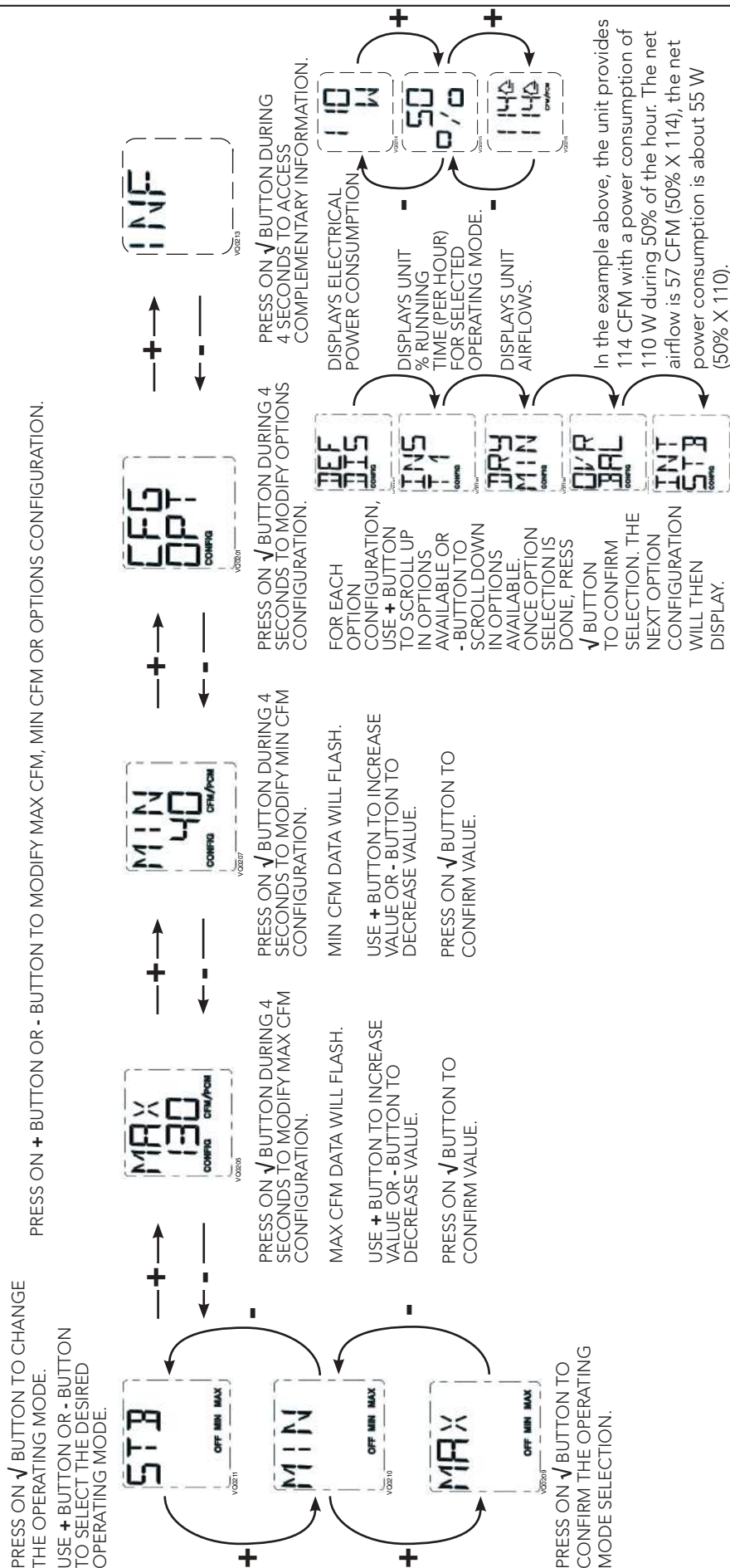
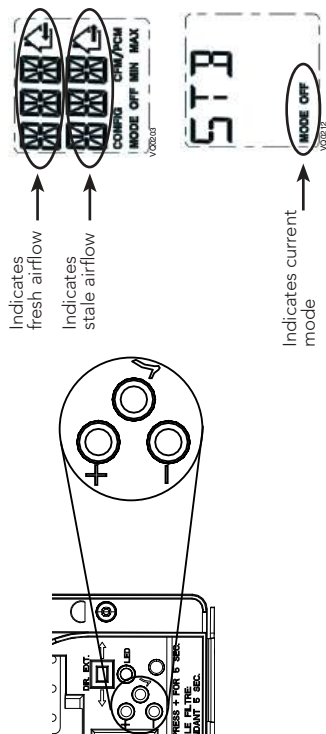
- Risk of electric shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source.
- This product is equipped with an overload protection (fuse). A blown fuse indicates an overload or a short-circuit situation. If the fuse blows, disconnect the product from its power source. Discontinue using the unit and contact technical support.



VE0497A

5. NAVIGATION ON LCD SCREEN

✓ button	To confirm a selection.
+	To increase a value.
	To scroll up in a selection.
– button	To decrease a value.
	To scroll down in a selection.



NOTE : According to unit model and configuration, some menus may not be available.

PRESS ON  BUTTON TO
EXIT COMPLEMENTARY
INFORMATION.

5.1 LCD SCREEN

DISPLAY	DEFINITION
STB	Standby mode
MED	MED speed
INT	Intermittent mode
AUT	AUTO mode
SMT	SMART mode
OVR 20	Override 20 min
OVR 40	Override 40 min
OVR 60	Override 60 min

DISPLAY	DEFINITION
OVR CNT	Override by dry contact
AHU	Refer to section 6.3 for explanation
HUM	Humidistat or Dehumidistat override
TUR	Turbo mode
OTH	Away mode or Scheduling mode
❄❄❄	Flow unbalancing for frost prevention
DEF	Defrost mode
EXX or WXX (XX referring to error or warning number)	Refer to section 8 for each error/warning explanation

5.2 UNIT FIRST BOOT

PREPARATION

Follow these steps to ensure accurate measurements:

- Seal all the ductwork with tape. Close all windows and doors.
- Turn off all exhaust devices such as range hood, dryer and bathroom fans.
- If the installation is in any way connected to a ductwork of a central forced-air system, make sure that the central forced-air system blower is ON. If not, leave central forced-air system blower OFF.

AUTO-BALANCING PROCEDURE

- Confirm that selector is set according to installation direction. Refer to section 1.1.
- Power unit and wait for initialization (approx. 1 min).
- Select desired CFM value. Use (+/-) to adjust the CFM and √ to confirm.

INSTALLATION CONFIGURATION SELECTION

- INS will display on the LCD screen. Choose among T-1, T-2, T-3, T-4 or T-5 following the installation configuration (Refer to section 2.2 for more details).
- Auto-balancing is completed.

NOTE: If no selection is made within a 8-hour period, the unit will automatically save the settings 110 CFM in MAX, 55 CFM in MIN and T-1 installation configuration. The unit will be in Standby mode and ready to use.

5.3 HIGHER ELEVATION APPLICATIONS

When the unit is installed in higher elevation applications, a correction factor should be applied to the CFM value displayed on LCD screen. Below is the table that can be used for the given elevation above sea level.

Elevation Above Sea Level		Volume Correction Factor
Feet	Meters	
0	0	1
820	250	1.03
1640	500	1.06
2461	750	1.09
3281	1000	1.12
4101	1250	1.16
4921	1500	1.19
5741	1750	1.23
6562	2000	1.27
7382	2250	1.30
8202	2500	1.34
9022	2750	1.38
9842	3000	1.42
10663	3250	1.47
11483	3500	1.51

To get the corrected airflow value output by the product, use the following formula:

(CFM from LCD) x (Volume Correction Factor) = Corrected Airflow Value

Example: Unit installed in a home that is at 4 921 ft. (1500 m) above sea level:

104 CFM (shown on LCD screen) x 1.19 (correction factor) = 124 CFM (actual airflow output)

Interpolation between the given elevation values and the related correction factors can be used for a given application.

5.4 SETTINGS MODIFICATION

5.4.1 PROCEDURE TO MODIFY MIN CFM SETTING

- Go to MIN using (+/-) then press on the ✓ button for 4 seconds.
- Use (+/-) to increase/decrease CFM and ✓ to confirm.

5.4.2 PROCEDURE TO MODIFY MAX CFM SETTING

- Go to MAX using (+/-) then press on the ✓ button for 4 seconds.
- Use (+/-) to increase/decrease CFM and ✓ to confirm.

5.4.3 PROCEDURE TO MODIFY OPTIONS SETTING

- Go to CFG OPT using (+/-) then press on the ✓ button for 4 seconds.

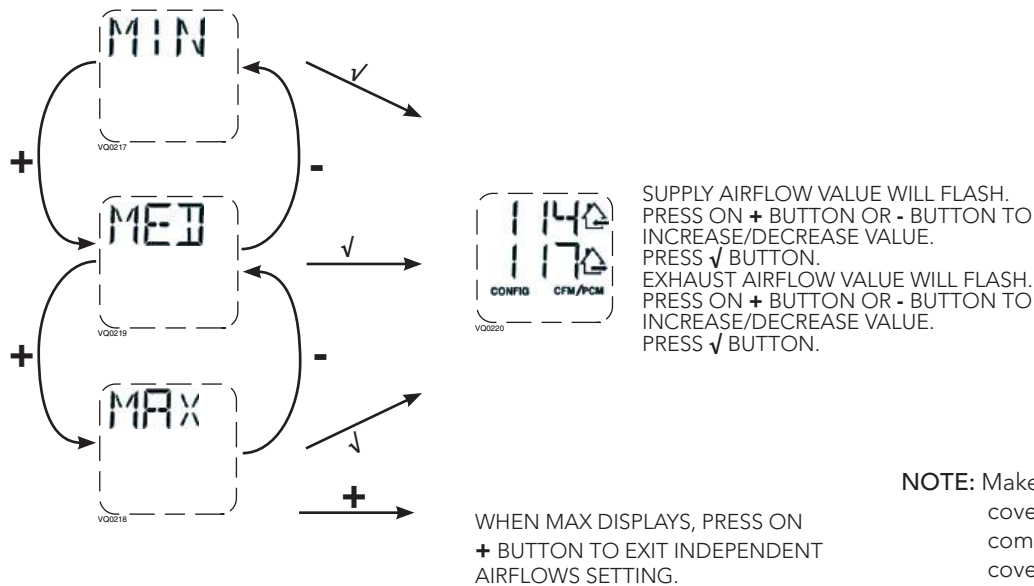
Options	Configurations available
DEF (Defrost)	DIS* (Discretion - defrost without speed variation for more comfort), PLU (Plus - extended defrost for colder areas)
INS (Installation)	T-1* , T-2 , T-3 , T-4 , T-5 (Refer to section 2.2)
DRY (Dry contact)	MIN* (Minimum), INT (Intermittent), AUT (AUTO), MAX (Maximum) (Refer to section 3.3.1)
OVR (Override)	BAL* (Balanced), PER (Performance), DIS (Discretion) (Refer to section 3.2)

* Factory setting

NOTE: If no selection is confirmed within 10 minutes, the unit will exit the menu without saving any changes.

5.4.4 PROCEDURE TO MODIFY INDEPENDENT AIRFLOWS SETTING

- Press simultaneously (+/-) buttons for 4 seconds.



NOTE: Make sure to put back the rubber cover over the LCD once adjustment is completed. To do so, press the rubber cover on the door LCD opening.

5.5 FACTORY SETTINGS RESET

If any change is made to the ducting, reset settings to restart the airflow test.

PROCEDURE TO RESET SETTINGS

Press on the √ and (-) buttons simultaneously for 4 seconds. Use (+/-) to select Yes or No and √ to confirm. Then perform the auto-balancing procedure.

6. USING THIS UNIT

6.1 YOUR VENTILATION SYSTEM

This balanced ventilation unit is designed to provide fresh air to your home while exhausting stale, humid air. Thanks to its energy recovery module, the unit recovers a large proportion of energy that is part of indoor or outdoor air according to the seasons to improve comfort and energy efficiency during the heating and the cooling periods. With the Virtuo Air Technology™, this unit responds to the variations in its environment in an autonomous way, ensuring to provide a proper level of ventilation and air quality. This unit also features automatic modes (AUTO or SMART) that manage autonomously the required ventilation level as per indoor and/or outdoor conditions. In colder areas, the unit will perform, at intervals, recovery module discreet defrost to maintain performance and comfort.

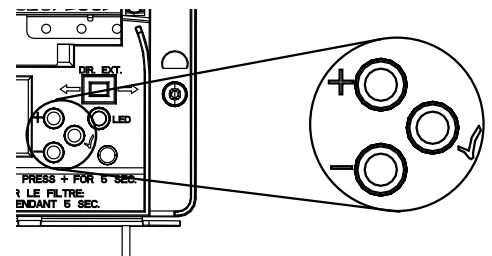
6.2 INTEGRATED CONTROL

All units are equipped with an integrated control, located on top of the unit. For more convenience, these units can be controlled using an optional wall control or the central forced-air system thermostat equipped with external fan activation.

MODE SELECTION

1. To change the mode, use (+/-) to access the Mode screen. Press √ to edit the mode and use (+/-) to change the mode (Standby, Min, Max).
2. Press √ to confirm selection. The airflows will be displayed for both MIN and MAX modes.

NOTE: If an optional auxiliary wall control or the central forced-air system thermostat equipped with external fan activation is used, it overrides the integrated control.



6.3 AHU MODE DISPLAY

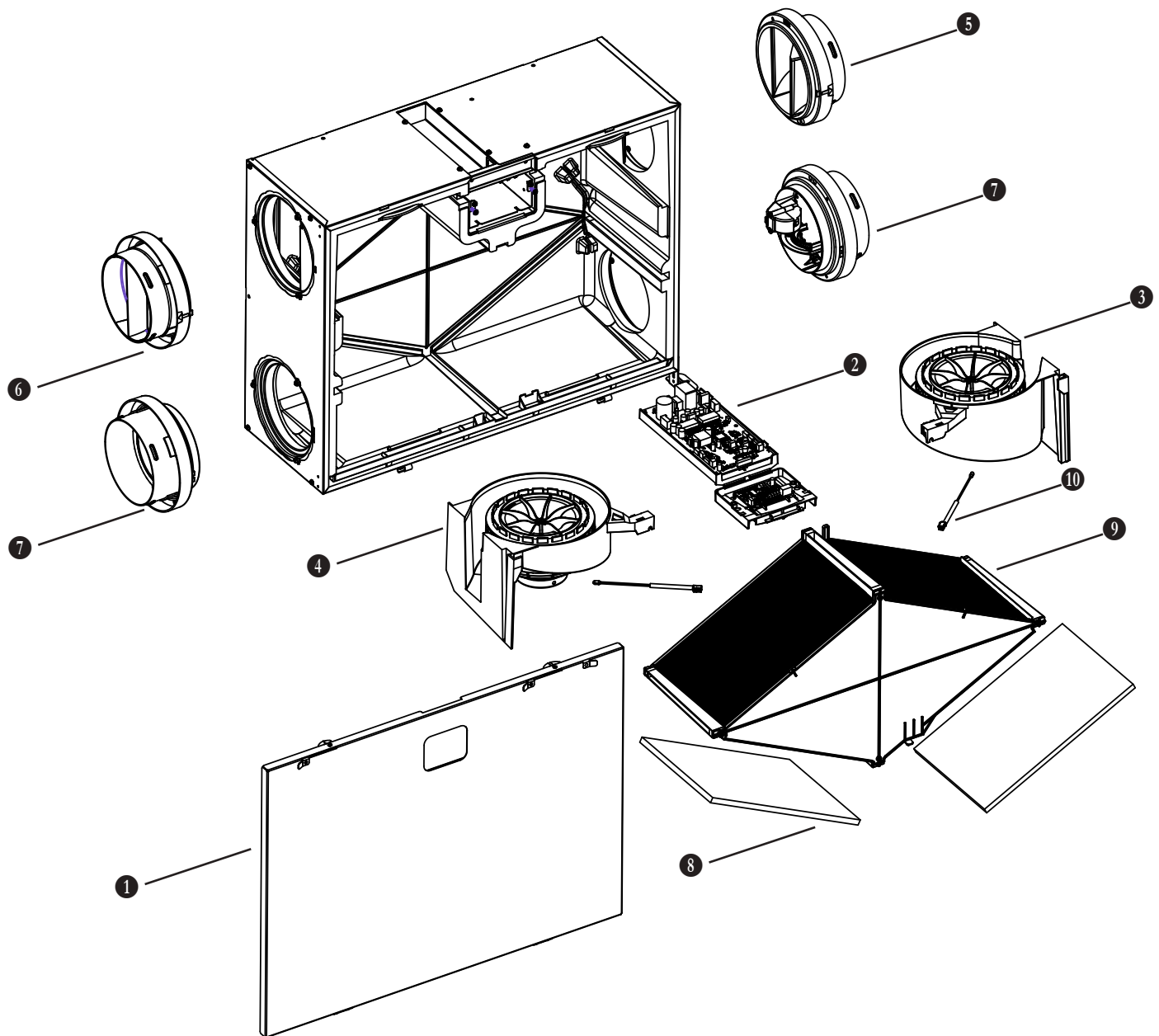
Depending on unit configuration and/or installation, the unit could not be able to reach desired set minimum CFM. This situation could happen with installed configurations T-2 and T-4 only due to AHU static pressure and a set minimum CFM below 40. In such a case, AHUXX (XX referring to desired minimum CFM value) will display on LCD screen. In AHU mode, the unit operates in intermittent mode to reach desired minimum CFM value. Intermittent mode duration varies as per desired minimum CFM value. Intermittent will start with the OFF waiting for synchronization with furnace.

6.4 ❄️ MODE DISPLAY

A snowflake symbol ❄️ may appear below the operating mode when outdoor conditions are getting cold. This frost prevention feature reduces the amount of cold air coming from outside to protect internal components from frost.



7. SERVICE PARTS



ITEM	DESCRIPTION	PART NUMBER
1	Door assembly white	SV1116899
2	Electronic assembly	SV1115063
3	Blower right	SV1115070
4	Blower left	SV1115071
5	Port collar right 6"	SV1115072
6	Port collar left 6"	SV1115073
7	Motorized damper assembly port 6"	SV1115074
8	Filters kit MERV8	SV1115075
9	Core ERV 75%	SV1115076
10	Thermistor	SV1115064
*	Hardware kit	SV1115077
*	Door cover white	SV1116453
*	Trim kit and door cover white	SV1116501

* Not shown.

REPLACEMENT PARTS AND REPAIRS

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

8. INSTALLER'S TROUBLESHOOTING

WARNING

- Risk of electric shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source.
- The wearing of safety glasses and gloves is recommended since a few diagnosis procedures may require the unit to be in operation while proceeding. Be careful with moving and live parts to prevent any risk of injury.

ERROR	DESCRIPTION	SOLUTION
E01	Left damper range	STEP 1: Inspect the damper system, remove any undesirable obstacle or dirt (filters and core may have to be removed to access the damper system). If STEP 1 did not fix the problem, perform STEP 2: Open electrical compartment, check if connector J5 (Damper CS) is well inserted, check for any loose wires. If STEP 2 did not fix the problem, perform STEP 3: Disconnect J5 (Damper CS) and connect a spare damper system. If it works, replace left damper. Otherwise, replace the electronic assembly.
E02	Left damper timeout	
E03	Left damper	
E05	Right damper range	STEP 1: Inspect the damper system, remove any undesirable obstacle or dirt (filters and core may have to be removed to access the damper system). If STEP 1 did not fix the problem, perform STEP 2: Open electrical compartment, check if connector J7 (Damper EX) is well inserted, check for any loose wires. If STEP 2 did not fix the problem, perform STEP 3: Disconnect J7 (Damper EX) and connect a spare damper system. If it works, replace right damper. Otherwise, replace the electronic assembly.
E06	Right damper timeout	
E07	Right damper	
E22	Right blower airflow	STEP 1: Perform a visual inspection of the left damper system. Clean filters, distribution registers and outside exhaust hood. Make sure no non-return damper is installed in exhaust hood since it can freeze in winter. Inspect ducting to ensure it is not squeezed or bent. If STEP 1 did not fix the problem, perform STEP 2: Remove ducting of this airflow path. On the LCD screen, select MAX to check if the unit is able to reach the selected flow. If so, review the ducting path. If STEP 2 did not fix the problem, perform STEP 3: On the LCD screen, note the MIN and MAX flow setting values then reset the unit. MAX flow value will display on the LCD screen. If MAX flow is above desired MAX flow, set MAX and MIN flows. If STEP 3 did not fix the problem, perform STEP 4: Replace the right blower and repeat STEP 3. If STEP 4 did not fix the problem, perform STEP 5: Replace the electronic assembly.
E23	Right motor (drive over current)	STEP 1: Turn power OFF 30 s, then ON. If STEP 1 did not fix the problem, perform STEP 2: Remove core and clear the ventilation wheel from any dirt or obstacles. If STEP 2 did not fix the problem, perform STEP 3: Disconnect J3 (Supply) and connect a spare blower system. If it works, replace right blower. If STEP 3 did not fix the problem, perform STEP 4: Replace the electronic assembly.
E27	Right motor (drive foc duration)	
E28	Right motor (drive speed feedback)	
E29	Right motor (startup)	
E24	Right motor (drive over voltage)	STEP 1: Turn power OFF 30 s, then ON. Under and over voltage may be detected with severe in-house power supply fluctuation and stop the motor for protection. If STEP 1 did not fix the problem, perform STEP 2: Replace the electronic assembly.
E25	Right motor (drive under voltage)	
E26	Right motor (drive over temp)	STEP 1: Validate if the air exchanger is exposed to ambient temperatures within the operating limits (see p. 4) If STEP 1 did not fix the problem, perform STEP 2: Replace the electronic assembly.
E32	Left blower airflow	STEP 1: Perform a visual inspection of the right damper system. Clean filters, distribution registers and outside exhaust hood. Make sure no non-return damper is installed in exhaust hood since it can freeze in winter. Inspect ducting to ensure it is not squeezed or bent. If STEP 1 did not fix the problem, perform STEP 2: Remove ducting of this airflow path. On the LCD screen, select MAX to check if the unit is able to reach the selected flow. If so, review the ducting path. If STEP 2 did not fix the problem, perform STEP 3: On the LCD screen, note the MIN and MAX flow setting values then reset the unit. MAX flow value will display on the LCD screen. If MAX flow is above desired MAX flow, set MAX and MIN flows. If STEP 3 did not fix the problem, perform STEP 4: Replace the left blower and repeat STEP 3. If STEP 4 did not fix the problem, perform STEP 5: Replace the electronic assembly.

8. INSTALLER'S TROUBLESHOOTING (CONT'D)

ERROR	DESCRIPTION	SOLUTION
E33	Left motor (drive over current)	<p>STEP 1: Turn power OFF 30 s, then ON.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Remove core and clear the ventilation wheel from any dirt or obstacles.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: Disconnect J2 (Exhaust) and connect a spare blower system. If it works, replace left blower.</p> <p>If STEP 3 did not fix the problem, perform STEP 4: Replace the electronic assembly.</p>
E37	Left motor (drive foc duration)	
E38	Left motor (drive speed feedback)	
E39	Left motor (startup)	
E34	Left motor (drive over voltage)	<p>STEP 1: Turn power OFF 30 s, then ON. Under and over voltage may be detected with severe in-house power supply fluctuation and stop the motor for protection.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Replace the electronic assembly.</p>
E35	Left motor (drive under voltage)	
E36	Left motor (drive over temp)	<p>STEP 1: Validate if the air exchanger is exposed to ambient temperatures within the operating limits (see p. 4)</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Replace the electronic assembly.</p>
E40	Right blower thermistor	<p>STEP 1: Open electric cover and check if thermistor is well connected in connector J7A.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Disconnect connector J7A and check if the measured resistance (thermistor connector) is within 5 Kohms to 120 Kohms. If outside the range, replace the thermistor.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: Replace the electronic assembly.</p>
E41	Left blower thermistor	<p>STEP 1: Open electric cover and check if thermistor is well connected in connector J7B.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Disconnect connector J7B and check if the measured resistance (thermistor connector) is within 5 Kohms to 120 Kohms. If outside the range, replace the thermistor.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: Replace the electronic assembly.</p>
E42	PCBA thermistor fault	STEP 1: Replace the electronic assembly.
E43	PCBA temperature over limit	<p>STEP 1: Validate if the air exchanger is exposed to ambient temperatures within the operating limits (see p. 4)</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Replace the electronic assembly.</p>
E50	Wall control communication lost	<p>STEP 1: Inspect wall control wires and connections, make sure wires are not broken or touching each others.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Remove wall control from the wall installation and test with a short cable. If it works, bring a new cable to the wall installation location.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: Test the air exchanger with a spare wall control. If it works, replace the wall control.</p> <p>If STEP 3 did not fix the problem, perform STEP 4: Replace the electronic assembly.</p>
E51	Wall control sensor	<p>STEP 1: Inspect wall control wires and connections, make sure wires are not broken or touching each others.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Replace the wall control.</p>
E60	Protection mode	<p>STEP 1: Perform general inspection of the unit with a special attention to the damper located on the fresh air (connected outside). Inspect as well the core, filters.</p> <p>If STEP 1 did not fix the problem, perform STEP 2: Turn power OFF 30 s, then ON. Set unit in MAX and see if the airflow can reach the target. If the house logo showing exhaust on LCD is flashing and flow is lower than expected, inspect ducting and ports.</p>

8. INSTALLER'S TROUBLESHOOTING (CONT'D)

WARNING	DESCRIPTION	SOLUTION
W22	Right blower airflow	<p>STEP 1: Perform a visual inspection of the supply damper system. Clean filters, distribution registers and outside supply hood. Inspect ducting to ensure it is not squeezed or bent. If STEP 1 did not fix the problem, perform STEP 2: Remove ducting of the supply path. On the LCD screen, select MAX to check if the unit is able to reach the selected flow. If so, review the ducting path.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: On the LCD screen, select the MIN and MAX flow setting values then reset the unit. MAX flow value will display on the LCD screen. If MAX flow is above desired MAX flow, set MAX and MIN flows.</p> <p>If STEP 3 did not fix the problem, perform STEP 4: Replace the supply blower and repeat STEP 3. If STEP 4 did not fix the problem, perform STEP 5: Replace the electronic assembly.</p>
W32	Left blower airflow	<p>STEP 1: Perform a visual inspection of the exhaust damper system. Clean filters, distribution registers and outside exhaust hood. Make sure no non-return damper is installed in exhaust hood since it can freeze in winter. Inspect ducting to ensure it is not squeezed or bent. If STEP 1 did not fix the problem, perform STEP 2: Remove ducting of the supply path. On the LCD screen, select MAX to check if the unit is able to reach the selected flow. If so, review the ducting path.</p> <p>If STEP 2 did not fix the problem, perform STEP 3: On the LCD screen, select the MIN and MAX flow setting values then reset the unit. MAX flow value will display on the LCD screen. If MAX flow is above desired MAX flow, set MAX and MIN flows.</p> <p>If STEP 3 did not fix the problem, perform STEP 4: Replace the exhaust blower and repeat STEP 3. If STEP 4 did not fix the problem, perform STEP 5: Replace the electronic assembly.</p>
W52	Initial setting incomplete	<p>STEP 1: Press + or - to access the selection menu.</p> <p>STEP 2: Complete configuration. (Refer to section 5 for more details).</p>
W61	Electronics overheating protection mode	The unit is currently in overheating protection mode. The power transmitted to the motor is deliberately reduced to decrease electronics temperature. The unit will exit this mode by itself once conditions are back to normal. It is normal to observe reduction in airflows during this period. This condition should appear only when the unit is set in high speed and located in a warmer environment, for example over 30°C (86°F).
W65	Flow direction selector	Flow selector is probably set in the wrong direction. The red selector must be set on the side of the outdoor ducting (Duct connected with the outside of the dwelling).
LCD does not light up	LCD connection	STEP 1: Open electric cover and check LCD wire connectors to ensure they are both well connected (At each end of the white wire connected behind the LCD).
❄	Frost prevention	This is not an error. It indicates a flow unbalancing for frost prevention. The unit will exit this mode by itself once conditions are back to normal.
AHU	Furnace synchronization	This is not an error. If unit is set in installation type T2 or T4 and the speed setpoint is below 40 CFM, this AHU + CFM target will appear on LCD. In this status, the blowers can remain off for a certain period of time waiting for synchronization with furnace (time base running to achieve the targeted CFM level).

NOTE: If LED on unit is constantly lit, it is the filter maintenance indicator. If LED is blinking, there is an error so check LCD for error code. With the cover on, only the LED is visible. To see LCD, remove the cover.

CAUTION

Make sure that no piece of mineral wool will enter in the unit during installation. Otherwise, this could reduce airflow and generate vibrations and noise in the unit.

9. MAINTENANCE

⚠ WARNING

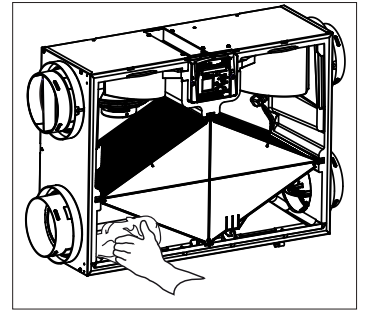
High voltage risk. During maintenance or repairs, always stop the unit then disconnect the unit from its power source to prevent any risk of electric shock. The wearing of safety glasses and gloves is recommended when handling unit components to prevent any risk of injury that could be caused by the presence of thin metal.

9.1 QUARTERLY

1. Disconnect the unit from its power source.
2. Carefully pull trim kit fully away from door surface. The door of this unit is hinged and maintained closed by 2 latches. Open them and set aside.
3. Clean the inside of the door with a damp cloth.
4. Clean filters:
 - Remove 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: The optional filter is a disposable filter. It should be replaced when it is too dirty.

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

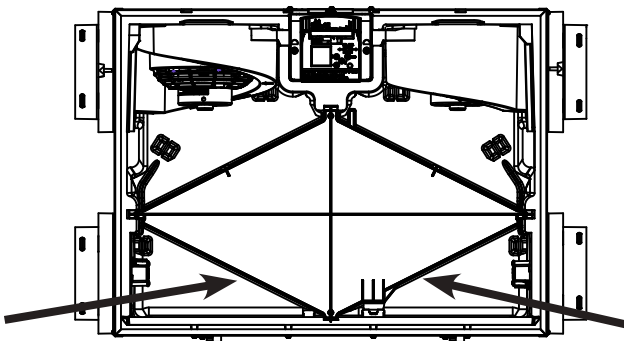


CAUTION

A blocked air vent or filter, even partially, could cause the unit to malfunction. The comfort provided by the unit could be reduced and the risk of unit frost could increase. This could cause unit breakdown and/or damage to property.

- Clean if necessary.
8. Rotate the blower wheels by hand. If one of the wheels does not rotate easily, contact your installer.
 9. Reassemble the components. Pay special attention to the filters by making sure that they are engaged in their slots.
 10. Close the unit door and reconnect power supply.
 11. Reset filters, if required. Press + for 5 seconds on the unit integrated control. If using an optional main wall control (SPEED, DEHUMIDISTAT OR AUTOMATIC), press on the INT/AUTO button for 5 seconds to reset the filters. If using the ADVANCED optional main wall control, follow the instructions on the touch screen.

MERV8 FILTERS LOCATION

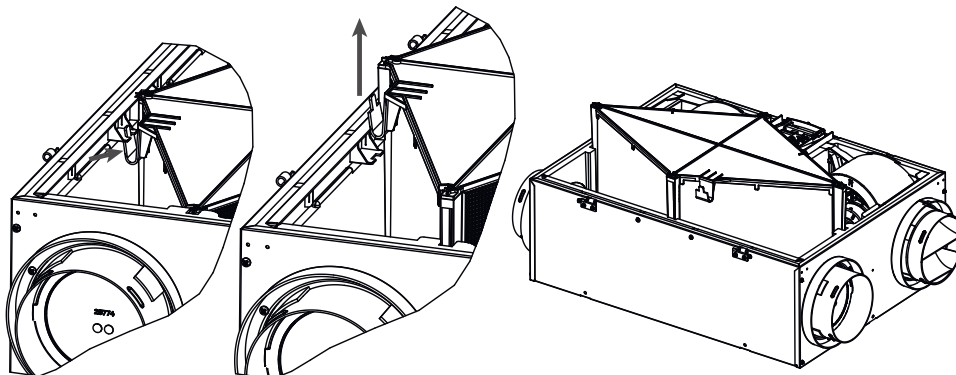


MERV8 FILTER REPLACEMENT

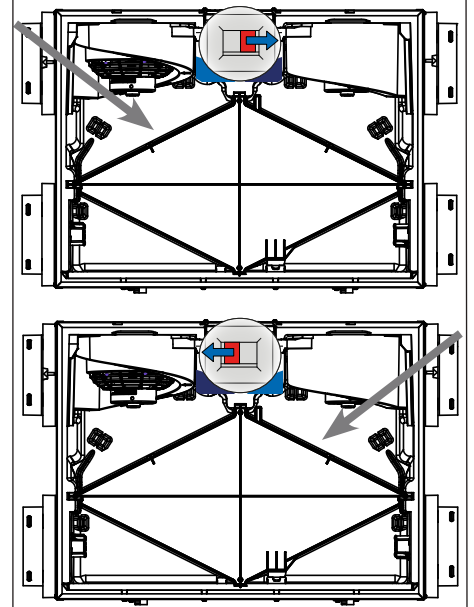
① Push on this tab.

② Slide the core out.

③ Replace the filter.



OPTIONAL MERV13 FILTER LOCATION



Install the filter over the core.
Push the core and the filter to the bottom of the unit until the core clips.

9. MAINTENANCE (CONT'D)

9.2 ANNUAL (AT FALL)

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

CAUTION

- Handle the recovery core with care.

2. Clean the recovery core:

ERV MODELS

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

CAUTION: DO NOT SOAK THE ENERGY RECOVERY CORE IN WATER

3. Clean the blower assemblies. Do not disassemble the blower assemblies.
4. Remove the dust using a vacuum cleaner with a soft brush attachment.
5. Reassemble the components.
6. Reconnect power supply.

10. USER'S TROUBLESHOOTING

If the unit does not work properly, reset the unit by disconnecting its power source for one minute, then reconnect power supply. Contact customer service at 1-800-558-1711 for any unresolved issue.

PROBLEM	TRY THIS
1. Nothing works.	<ul style="list-style-type: none">• See if the unit power source is connected.• See if the unit is receiving power from the house circuit breaker or fuse.
2. Noisy unit.	<ul style="list-style-type: none">• Clean the unit (see section 9). If the problem is not solved, contact your installer.
3. Condensation inside windows under cold weather conditions.	<ul style="list-style-type: none">• Operate the unit at MAX speed 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 outdoors.• Keep the temperature in your house above 64°F.
4. Humidity inside under hot/humid weather conditions.	<ul style="list-style-type: none">• Operate the unit in MIN speed.• Temporarily switch to INT mode (if available).• Use a dehumidifier.
5. Air too dry.	<ul style="list-style-type: none">• Operate the unit at MIN speed.• Temporarily switch to INT mode (if available).• Temporarily use a humidifier.
6. Air too cold at the air supply register.	<ul style="list-style-type: none">• Make sure the outdoor hoods are not blocked.• Operate the unit at MIN speed.• Install a duct heater (contact your installer).

11. WARRANTY

This ventilation unit is a high quality product, built and packaged with care. The manufacturer warrants to the original purchaser of its product, that such products will be free from defects for the period stated below, from date of original purchase. For all units, the warranty covers parts only against any operational defect. This 5-year warranty is subject to performance of the core maintenance according to recommendations in this manual. The energy recovery core (ERV) has a 5-year warranty. If any defect should occur, we urge you to read the user guide carefully. If the problem persists, observe the following rules:

RULES TO FOLLOW

If the unit is defective, contact your ventilation contractor (see address on your manual's cover page). The contractor will determine with you the reason for the defect, and if needed, do the replacement or repair. If ever it is impossible to reach your ventilation contractor, call 1-800-558-1711 (in North America); the personnel will be pleased to give you the phone number of a distributor or a service center near you.

REPLACEMENT PARTS AND REPAIR

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

BILL OF PURCHASE

No replacement or repair covered by the warranty will be carried out unless the unit is accompanied by a copy of the original bill of purchase. Please retain your original.

MISCELLANEOUS COSTS

In each case, the labor and shipping costs for the removal of a defective part and/or installation of a compliant part will not be covered by the manufacturer.

CONDITIONS AND LIMITATIONS

These units are created for **residential use** only and must be used in a building as defined below:

- Building: All structures zoned and/or erected for the act, process or art of human or animal habitation and/or the storage or warehousing of goods.
- Residential use: Dwelling, lodging, suite: Building, or part of a building, intended to act as either the domicile to one or several people which can include general sanitary, food consumption and rest facilities. Buildings of only one room or a group of rooms including those occupied by a tenant or owner; comprise the lodgings, the individual rooms of the motels, hotels, rooming/lodging houses, boarding/half-way/foster homes, dormitories, and suites, as well as the stores and the business establishments constituted by only one room in a dwelling.
- Commercial use: Agricultural establishment, commercial establishment for assembly, care, or detention: Building or part of a building that does not contain a dwelling, situated on land dedicated to agriculture or farming and used primarily to shelter animals, or for the production, the storage or the treatment of agricultural or horticultural products or animal food. Building or part of a building, used for the display or retail of goods, professional or personal services, or commodities. Building, or part of a building used by persons gathering for civic activities, religious or political assembly, tourism, educational/vocational training, recreation or the consumption of food or drink. Building, or part of a building used to shelter persons of impaired physical or psychological states, persons requiring palliative care or medical treatments, or persons for reasons out of their control, cannot escape harm or threat of danger autonomously.
- Industrial use: Building, or part of a building, used for the assembly, the manufacture, the creation, the treatment, the repair or the storage of products and combustible materials and that contain fuels that when ignited or exploded in sufficient quantity may constitute a risk of fire.

The above warranty applies to all cases where the damage is not a result of poor installation, improper use, mistreatment or negligence, acts of God, or any other circumstances beyond the control of the manufacturer. Furthermore, the manufacturer will not be held responsible for any bodily injury or damage to personal property or real estate, whether caused directly or indirectly by the unit. This warranty supersedes all prior warranties.

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